

NIOSH BIBLIOGRAPHY OF COMMUNICATION AND RESEARCH PRODUCTS | 2019

A Long Journey to Worker Protection

The Occupational Safety and Health Act of 1970
... 50 Years and Counting



Centers for Disease Control and Prevention
National Institute for Occupational Safety and Health

Cover: The photographs on the cover of the *NIOSH Bibliography of Communication and Research Products 2019* represent workers from the history of the United States whose dedication to their jobs and struggles with workplace safety and health have inspired federal, state, and local government action to protect workers in all vocations. The photographs, most taken by acclaimed photographer Gordon Parks, represent all sectors within the National Occupational Research Agenda. These sectors include the following:

- Agriculture, Forestry and Fishing
- Construction
- Healthcare and Social Assistance
- Manufacturing
- Mining
- Oil and Gas Extraction
- Public Safety
- Services
- Transportation, Warehousing and Utilities
- Wholesale and Retail Trade

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NIOSH

Bibliography of Communication and Research Products

2019

DEPARTMENT OF HEALTH AND HUMAN SERVICES
Centers for Disease Control and Prevention
National Institute for Occupational Safety and Health

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Foreword

Congress passed the Occupational Safety and Health (OSH) Act in 1970 so workers would no longer carry the heavy burden of workplace risk. Before its passage, tens of thousands of American lives were lost at work each year. Survivors of workplace injuries paid a heavy toll in lost wages, pain, and suffering.

The OSH Act created the National Institute for Occupational Safety and Health (NIOSH), giving it authority to conduct occupational safety and health research. We were gifted a mission to pursue safe and healthful work conditions for all workers across the United States through scientific endeavors, leading to recommendations, guidance, and many other publications. The act was passed to ensure that all workers have a safe and healthy workplace. It was a promise made to both current and future generations of workers.

Fifty years since passage of the OSH Act, we continue to strive for excellence. This bibliography represents the scientific endeavors and communication products NIOSH has achieved during 2019 in pursuit of excellence. Each year, a new edition of this bibliography marks a year of progress.

Some old challenges remain and new challenges are emerging. This anniversary gives us an opportunity to reflect on our past and look to the challenges the future of work presents.

Please explore this bibliography and share it freely in workplaces and with our colleagues in the occupational health and safety community.



John Howard, M.D.
Director,
National Institute for
Occupational Safety and Health

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Contents

Foreword	iii
OSH Act at 50: A Special Report	vii
Year in Review	xix
Journal Articles	1
Books or Book Chapters	45
NIOSH Numbered Products	47
Proceedings	63
Abstracts	77
Control Technology Reports	87
Fatality Assessment and Control Evaluation Reports	89
Fire Fighter Fatality Investigation and Prevention Reports	91
Health Hazard Evaluation Reports	93
Author Index	101
National Occupational Research Agenda (NORA) Index	125

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OSH Act at 50: A Special Report

50 Years Ago ... A New Era for Worker Health and Safety

The Occupational Safety and Health (OSH) Act of 1970 promotes safe and healthful work conditions for all working men and women, regardless of their industry or job. The OSH Act created the National Institute for Occupational Safety and Health (NIOSH), a part of the Centers for Disease Control and Prevention in the Department of Health and Human Services. The act created the Occupational Safety and Health Administration (OSHA) and placed it in the Department of Labor. NIOSH is an independent research program, separate from the regulatory OSHA, which sets and enforces occupational safety and health standards, promotes safety and health training and education, and works with stakeholders to develop innovative and creative approaches to preventing workplace hazards.

The OSH Act separated the two agencies to give NIOSH independence to generate objective scientific research findings in the field of occupational safety and health.

The OSH Act also provided NIOSH with right-of-entry authority to make inspections and question employers and employees. NIOSH was charged with conducting education programs, providing safety and health specialists, and developing information on the proper use of safety and health equipment. The OSH Act intends for NIOSH-produced research to inform OSHA safety and health standards.

To better understand the OSH Act, the following sections explore the reasons why it came to be.

The Occupational Safety and Health Act of 1970

established **NIOSH** to research health and safety, and **OSHA** to enact regulations.

5

Section 5 requires employers to provide a safe and healthful workplace.

Section 8 requires employers to notify OSHA in 8 hours if a worker dies or if three or more are hospitalized from a work-related incident.

Preventable Worker Deaths and Illnesses Through the Years

Roots of Tragedy

The roots of U.S. occupational safety and health regulation date back to the late 19th century. It was all too common then for state labor bureaus to report on uncommon and horrific industrial tragedies [MacLaury 1981]. The large loss of life due to events that were wholly preventable spurred a labor movement for social reform. In 1877, Massachusetts passed the first factory inspection law, requiring factory owners to place guards between workers and machinery and to provide protection on elevators and fire exits [Massachusetts Bureau of Statistics of Labor 1870–1916]. Other states followed suit, but not enough to stop hundreds of thousands of lives from being lost at work over the century that followed.

The story of labor during the late 19th century up until the passage of the OSH Act of 1970 is a troubling one, riddled with industrial accidents and tragedies.

1873: Gloucester Fishing Fleet

In the late 1800s, an abundance of Atlantic cod led to the rapid expansion of the fishing fleet in Gloucester, Massachusetts. The fleet numbered about



Photo by Library of Congress

A schooner is docked at a Gloucester port in 1900. The top-heavy vessels brought danger to the fishing profession.

400 vessels, with a mostly immigrant, largely Portuguese crew. Like others in the fishing industry, Gloucester fishermen had a high mortality rate. Workers who fished from schooners, top-heavy vessels more likely to capsize in rough seas, often failed to return home from expeditions. From 1866 through 1890, the fishing fleet in Gloucester lost 2,450 men. A particularly devastating loss happened August 24, 1873, when one storm took the lives of 128 men, along with nine fishing vessels.

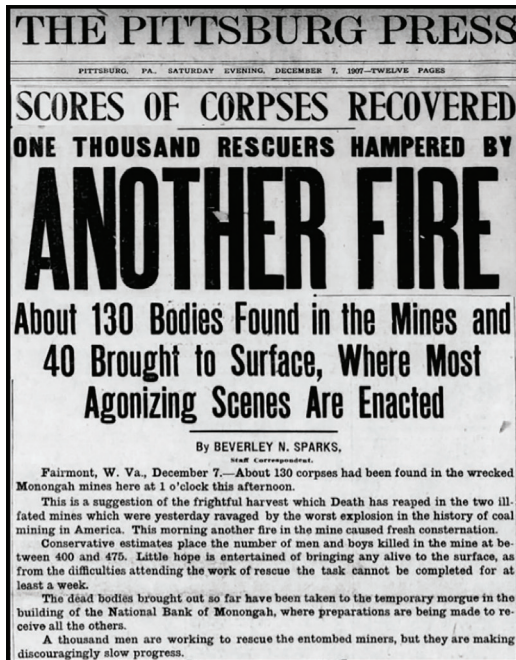


Photo by The Pittsburgh Press

The Pittsburgh Press announces in giant letters that another fire has claimed lives at the Monongah mine. The blast killed 362 miners in 1907, a year when four mine explosions killed 692 mine workers.

1907: Monongah Mining Disaster

December 6 is St. Nicholas Day, a significant religious holiday, especially for some immigrants. The worst mining accident in American history also happened that day. The disaster occurred in two mines, Nos. 6 and 8, of the Fairmont Coal mine in Monongah, West Virginia. At about 10:20 a.m., a massive underground explosion destroyed the entrance to the mine. Metal, timber, and rock flew into the air. After the blast, four miners walked out and another was found alive hours later. Eventually, 362 bodies of boys and men were recovered. Most were killed instantly, while others suffocated or were poisoned by the gases in the mine. The dead were largely immigrants. The exact cause of the explosion is unknown; however, a coroner's jury at the time concluded that a dynamite blast or the ignition of blasting powder set off the explosion that ended so many lives.

1911: Triangle Shirtwaist Factory Fire

In 1911, the Triangle Fire started in a scrap bin in a clothing factory occupying the eighth-through-tenth floors of the Asch building in lower Manhattan. Hundreds of mostly young, immigrant women were working at the time. A manager discovered the fire and tried to put it out, but the hose had rusted closed. Without a sprinkler system, the fire quickly spread. Management kept the exit doors locked, preventing access to stairways. As workers fled down the single fire escape, it collapsed. Firefighters tried to reach the factory floors, but their ladders were too short. The official death count from the Triangle fire is 146. Though many died by fire and smoke inhalation, some were crushed from the pressure of the crowd as they tried to open the locked exit doors. Others were crushed when they jumped down elevator shafts or out windows to escape the flames.



Photo by Library of Congress

Families of the victims of the 1911 Triangle Shirtwaist Factory fire gather outside a morgue.

1929: Cleveland Clinic Fire

During a particularly busy morning on May 15, 1929, when patients filled the Cleveland Clinic Foundation building, one massive explosion was followed by another. Three-to-four tons of nitrocellulose X-ray film stored in the basement had ignited and exploded. The heat source causing the ignition was likely a light bulb or steam pipe. The explosions forced deadly fumes through a pipe tunnel and ducts system,



Photo by Cleveland Clinic to Wikimedia Commons

Highly flammable X-ray film sparked a 1929 fire at Cleveland Clinic that caused 123 deaths.

reaching every room in the building. Caught unaware by the poisonous vapor, most inside the clinic collapsed either where they were or while trying to escape. Fumes and flames filled the stairwells. There was no sprinkler system. Of the 234 patients and employees in the clinic at the time, 123 died from inhaling the noxious fumes. Most died immediately, while some died days later. A first responder, Officer Ernest Staab, died days after pulling 21 people from the building.

1930s: Hoover Dam Construction

In 1928, then President Coolidge authorized the Boulder Canyon Project to build what would later be known as the Hoover Dam. Although eventually named as a National Historic Landmark and an engineering “wonder,” the new dam came with a high human cost. The official death count during construction is reported at 96 “industrial” fatalities: deaths caused by falls, rock slides, heat, blasting, electrocution, strikes by heavy equipment, drowning, and others. Unofficial numbers include dozens more fatalities, as workers also died while surveying the land, laying miles of electrical lines, and constructing rail lines to bring materials. Other worker deaths were considered “nonindustrial fatalities.” Most of these were logged by the company as caused by pneumonia, but

families disputed that claim. They believed the deaths came from carbon monoxide exposure, and they claimed the employer logged pneumonia as the cause of death to avoid a death benefit payment.

1947: Texas City Industrial Disaster

On April 16, 1947, a freighter, the S.S. Grandcamp, was docked at the Port of Texas City. The crew loaded its cargo, which included about 2,200 tons of the fertilizer ammonia nitrate. At about 8 a.m., the crew discovered a small fire in the hold. At the captain’s direction, workers tried to suppress the flames without water because water would ruin the cargo. The fire grew, and the colorful smoke attracted onlookers. At 9 a.m., the Texas City volunteer fire department arrived. At 9:12 a.m., the ship exploded. The force of the violent blast leveled about 1,000 buildings, including oil storage facilities, railway warehouses, and hundreds of homes. Most workers and bystanders were killed instantly. This included the chief and all but one of the firefighters. A nearby Monsanto chemical plant was destroyed, with 234 of 574 workers killed that day. The explosion also started fires in nearby ships. About 15 hours after the S.S. Grandcamp explosion, another freighter loaded with ammonia nitrate exploded, and two more died. In total, almost 600 people died and



Photo by Library of Congress

A damaged ship lists amid the blast devastation at the 1947 Texas City naval yard scene.

thousands more were injured in one of the largest industrial disasters in history.

1964: C.P. Baker Drilling Barge Accident

In the early morning hours of June 30, 1964, a 2-year-old C.P. Baker drilling barge capsized in the Gulf of Mexico. Constructed like a catamaran with two 260-foot hulls, the vessel was drilling the 22nd well of its career. Around 3 a.m., water surrounding the vessel began to

bubble, shooting up between the two hulls with such force that it entered the main deck. In 5 minutes, an explosion on the barge engulfed the entire vessel. A blowout, the uncontrolled release of crude oil from a well after pressure control systems fail, triggered the disaster. Thirty minutes later, the boat capsized. Of the 43 crew on board, 21 died and 22 were injured.

More about the long history of worker deaths, injuries, and illnesses appears in the timeline on pages xii and xiii.

How the OSH Act Passed in a Bipartisan Congress

In 1965, the Public Health Service called for a major national occupational health program to protect the safety and health of the U.S. workforce. Under President Lyndon Johnson's direction, the Departments of Labor and Health, Education, and Welfare were tasked with developing a legislative proposal. In 1966, the taskforce became gridlocked over which department would lead the new program.

A year later, a health tragedy among uranium miners broke the gridlock. More than 100 miners had died of lung cancer and thousands more were ill. The danger of radiation exposure among miners was known in 1947; however, no federal agency had clear jurisdiction [MacLaury 1981].

In 1968, President Johnson called on Congress to enact the Department of Labor's version of the job safety and health program. Johnson argued that each year more than 14,000 workers were killed and 2.2 million workers were injured on the job due to a lack of standards, poor enforcement of regulations, shortages of safety and health personnel, and a patchwork of ineffective federal laws [Johnson 1968].

Congressional committee hearings on the Johnson proposal began in February 1968. Organized labor supported the bill. Industry opposed it. Industry campaigned

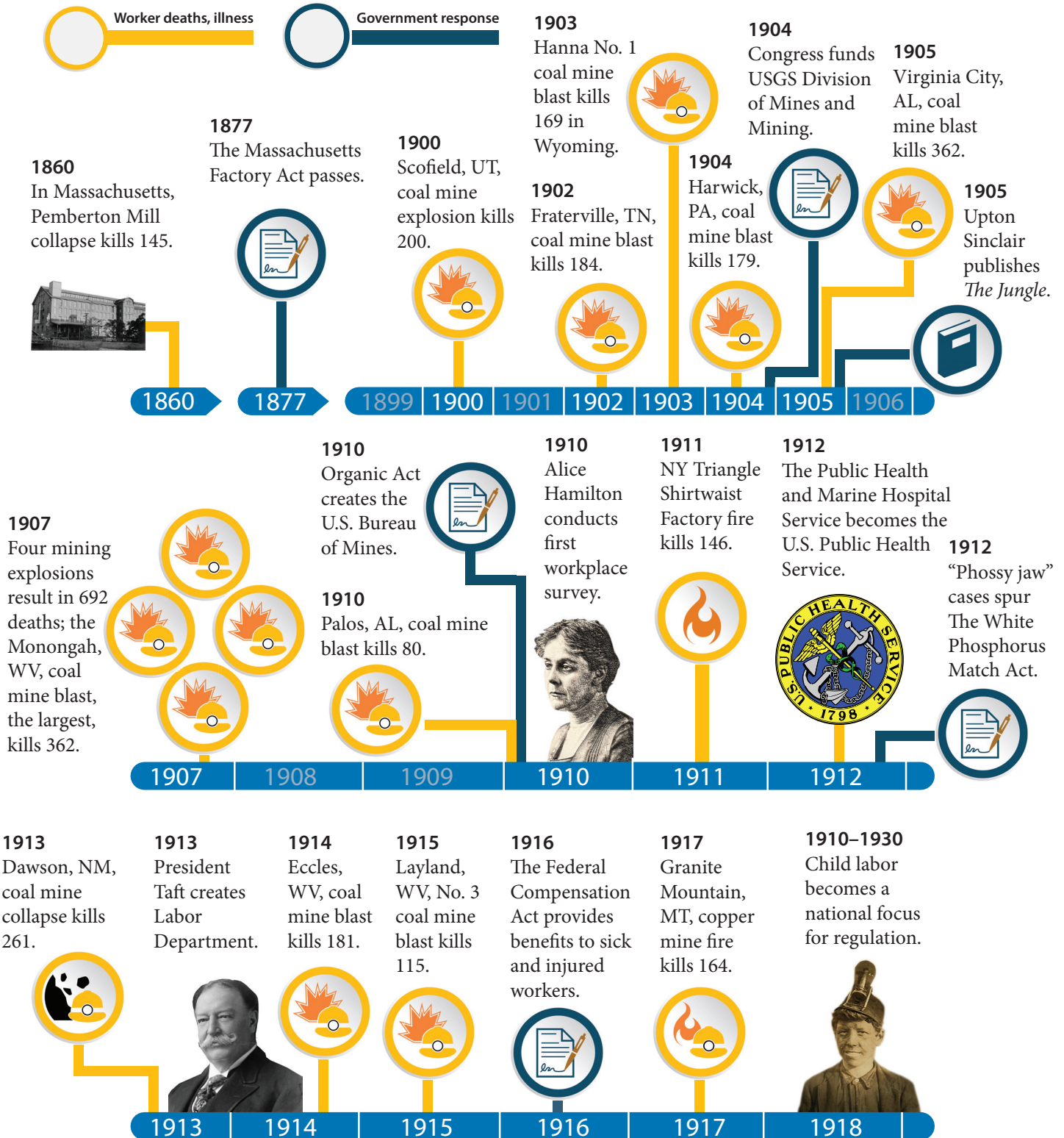
that the bill would undermine states' rights. Congress never voted on it. Violence in inner cities and the Vietnam War diverted the United States. The Johnson proposal failed.

In 1969, President Richard Nixon gave Congress his vision of a job safety and health program. Nixon's plan would establish a five-person board to set and enforce job safety and health standards. The Labor Department would be limited to inspecting workplaces, and the Health, Education, and Welfare Department would conduct research. Industry and the U.S. Chamber of Commerce strongly supported Nixon's plan. The new proposal was not widely popular in Congress, particularly among Democrats. One of the most compelling arguments against Nixon's proposal came from witness descriptions of construction workers suffering from asbestosis [MacLaury 1981].

In 1969, Democrats presented a bill similar to Johnson's proposal. Despite Republican efforts, the bill made it to committee. Although opponents delayed consideration until after the election, the bill made it through. In 1970, President Nixon signed the Occupational Safety and Health Act of 1970, ending a 3-year legislative battle.

A Time to Act

Worker Deaths, Illnesses Prompt Occupational Safety and Health Act of 1970



Photos by U.S. Library of Congress



1920
United States issues first approval of a respiratory protective device.

1924
Benwood, WV, coal mine blast kills 119.



1927-1935
Construction of WV Hawks Nest Tunnel causes occupational silicosis, leading to 109 deaths.

1924
Castle Gate, UT, mine blast kills 172.

1928
Mather, PA, No. 1 coal mine blast kills 195.



1931
After the lung disease asbestosis is identified, the first asbestos industry regulations are published.



1933
The Wagner-Peyser Act establishes the U.S. Employment Service.

1935
National Labor Relations Act passes.



1937
Apprenticeship Act passes.

1934
The Bureau of Labor Standards opens.



1931-1936
Boulder Dam (later Hoover Dam) project kills at least 96 workers.

1938
Fair Labor Standards Act codifies 40-hour work week.



1941
Federal Coal Mine Inspection Act passes.



1944
Natural gas tank blast kills 130 in East Ohio.

1947
Centralia, IL, coal mine blast kills 111 miners.

1947
S.S. Grandcamp explodes in port, killing 581.

1944
Naval Magazine explosion at Port Chicago, CA, kills 320.



1951
Coal mine blast in West Frankfort, IL, kills 119.

1951
Sen. Hubert Humphrey proposes federal job safety law.

1952
Federal Coal Mine Safety Act passes.

1969
Federal Coal Mine Health and Safety Act of 1969 passes.



1970
Congress passes Occupational Safety and Health Act of 1970 and the Clean Air Act.

1967
Study reveals high rate of cancer in uranium miners.



Photos by U.S. Library of Congress

Why we need the OSH Act today

The OSH Act of 1970 was the first comprehensive federal law regulating the safety and health of the U.S. workforce. OSHA estimates that in 1970 around 14,000 workers lost their lives at work [OSHA 2010]. Today the working population is around 155 million workers, almost double the number in 1970 [BLS 2019a]. We have made progress. In 2018, around 5,000 workers lost their lives at work [BLS 2019b].

In 2018, more than 3.5 million workers were injured or harmed on the job [BLS 2019c]. NIOSH holds as a basic tenet that all workplace injuries and illnesses are preventable. In 2020 the OSH Act is as necessary today as it was 50 years ago.

What the OSH Act has accomplished

During the OSH Act's first decade, NIOSH contributed much to occupational safety and health. In 1971, NIOSH published the *Criteria for a Recommended Standard on Asbestos* and the *Toxic Substances List*. In 1974, the NIOSH/OSHA Standards Completion Program became the basis for 387 new OSHA standards. In 1975, NIOSH published the first of its Current Intelligence Bulletins (CIBs). These were followed by the *NIOSH Pocket Guide to Chemicals* in 1978.

NIOSH continued its momentum in its second decade. In 1986, NIOSH released *Proposed National Strategies for the Prevention of Leading Work-Related Diseases and Injuries*, a strategic plan for the top 10 work-related diseases and injuries. That same year, NIOSH partnered with the United Nations International Labour Organization (ILO) Programme on Chemical Safety to launch International Chemical Safety Cards.

In the following decade, in 1991, NIOSH issued a ground-breaking *Current Intelligence Bulletin: Promoting Health and Preventing Disease and Injury Through Workplace Tobacco Policies on Secondhand Tobacco Smoke in the Workplace*. Five years later, responding to a surge in violence against workers, NIOSH issued findings and recommendations for preventing workplace homicides and assaults. In 1996, NIOSH unveiled the National Occupational Research Agenda (NORA), a public-private partnership between industry, labor, and government to stimulate innovative research and improve workplace practices. NORA is now in its third decade and consists of 10 industry sectors based on major areas of the U.S. economy. Each of these sectors has accomplished remarkable achievements toward improving the safety and health of the U.S. workforce.



Agriculture, Forestry and Fishing

- In 1987, NIOSH established the Sentinel Event Notification System for Occupational Risks–Pesticides Program to reduce the number of injuries and illnesses associated with occupational pesticide exposure.
- In 1990, NIOSH partnered with industry to address the high number of fishing fatalities in Alaska. By focusing on fishery-specific hazards, such as vessel overloading in the crab fleet, the partnership reduced fatalities.
- In 2007, NIOSH created the Commercial Fishing Incident Database by collecting risk factor information for fatalities to identify regional hazards for the commercial fishing industry.



Construction

- In 1997, NIOSH gave a new model for conducting research through partnership by publishing *Engineering Control Guidelines for Hot Mix Asphalt Pavers*.

- In 2012, NIOSH, OSHA, and the Center for Construction Research and Training (CPWR, a NIOSH-funded center), along with the NORA Construction Sector Council, launched a National Campaign to Prevent Falls in Construction, a nationwide initiative to prevent falls at construction sites.
- In 2019, CPWR and researchers at Washington State University partnered to develop the Safety Climate Assessment Tool (S-CAT), a free online tool that assesses organizational and job site safety climate.



Healthcare and Social Assistance

- In 1997, NIOSH published an Alert, *Preventing Allergic Reactions to Natural Rubber Latex in the Workplace*.
- In 2004, NIOSH published an Alert, *Preventing Occupational Exposures to Antineoplastic and Other Hazardous Drugs in Healthcare Settings*, and a list of hazardous drugs. The list was made with active input from partners in the healthcare industry, the pharmaceutical industry, and federal agencies. The current government-supported list (*NIOSH List of Antineoplastic and Other Hazardous Drugs in Healthcare Settings, 2016*) of hazardous drugs in the United States is heavily referenced throughout the healthcare industry.
- In 2013, NIOSH published an online course, *Workplace Violence Prevention for Nurses*, to prevent physical and non-physical violence among healthcare workers. The course provides healthcare workers with a valuable tool for preventing, intervening with, and reporting violence in the workplace.



Manufacturing

- In 1997, NIOSH researchers identified a new lung disease, lymphocytic bronchiolitis, in nylon flocking industry workers, reported in *Flock Workers'*

Exposures and Respiratory Symptoms in Five Plants.

- In 2000, NIOSH initiated a program to reconstruct occupational radiation doses for atomic weapons industry workers with cancers who filed claims for compensation under the Energy Employees Occupational Illness Compensation Program Act of 2000.
- In 2002, NIOSH scientists published a study, *Preventing Lung Disease in Workers Who Use or Make Flavorings*, about severe lung disease found in workers at a series of microwave-popcorn plants.
- In 2008, the NIOSH-OSHA-NHCA (National Hearing Conservation Association) Alliance published a joint document, *Best Practice Bulletin: Hearing Protection—Emerging Trends: Individual Fit Testing*. With the development of HPD Well-Fit™, fit-testing has been validated as an effective, practical, and essential tool for preventing occupational hearing loss.



Mining

- In 1997, NIOSH received authority to do mine safety research after the U.S. Bureau of Mines was closed. This brought NIOSH specialists into mine safety engineering and research, creating research sites in Pittsburgh, PA, and Spokane, WA.
- In 2001, NIOSH established the National Personal Protective Technology Laboratory (NPPTL) to prevent and reduce occupational disease, injury, and death for workers who rely on personal protective technologies.
- In 2011, NIOSH scientists developed a light-emitting diode (LED) cap lamp to improve illumination and decrease injury risk for underground miners.



Oil and Gas Extraction

- In 2010, NIOSH partnered with government agencies to give technical

assistance during the Deepwater Horizon disaster in the Gulf of Mexico.

- Since 2010, NIOSH scientists researched exposure hazards to the oil and gas extraction workforce, including exposures to respirable crystalline silica during manual tank gauging and fluid transfer operations. In 2017, NIOSH researchers published *NIOSH and Partners Work to Prevent Worker Deaths from Exposures to Hydrocarbon Gases and Vapors at Oil and Gas Wellsites*.
- In 2016, NIOSH and the American Petroleum Institute published a new safety standard, *Custody Transfer of Crude Oil from Lease Tanks Using Alternative Measurement Methods*. This standard describes alternative methods for measuring the quantity and quality of crude oil without opening the tank hatch, protecting workers from exposure to hydrocarbon gases and vapors.



Public Safety

- On September 11, 2001, NIOSH provided technical assistance for rescue and recovery workers to help in their response to terrorist attacks in New York City; at the Pentagon; and near Shanksville, Pennsylvania.
- In 2006, NIOSH commercialized two NIOSH-designed field methods to help first responders, public health officials, and remediation workers quickly detect the presence of methamphetamine on various environmental surfaces.
- In 2011, Congress authorized the World Trade Center (WTC) Health Program, a federal health plan that provides medical care to responders and community survivors of the September 11, 2001, terrorist attacks. To date, more than 100,000 responders and survivors have become WTC Health Program members.
- The NIOSH Fire Fighter Fatality Investigation and Prevention Program as of 2016 has investigated more than 600

firefighter line-of-duty deaths, about 40 percent of firefighter fatalities.



Services

- In the 1980s, NIOSH led pioneering research on emerging safety and health concerns in the Services Sector. These included indoor environmental quality in office buildings and job-related musculoskeletal injuries.
- In 2007, NIOSH published a document, *NIOSH-funded Research Helps Reduce Occupational Exposure to PCBs When Renovating Schools*, focused on the levels of polychlorinated biphenyls (PCBs) in the blood of construction workers who renovated schools built before 1978. This research received widespread media attention, leading to an increase in public knowledge and awareness of the presence of PCBs in older school facilities.
- In 2011, NIOSH-funded researchers developed a hazard alert, *Crossing Guards—Be Seen, Be Safe*, which included local and national injury data, job and safety training requirements, recommended and required personal protective equipment (PPE), and safe work practice recommendations.



Transportation, Warehousing and Utilities

- In 2006, NIOSH researchers began a 4-year study to measure body dimensions in the current truck driver workforce. The resulting software, RAMSIS, is widely used to update and improve truck cab design.
- In 2013, NIOSH scientists guided the Alaska Interagency Aviation Safety Initiative (AIASI) to identify aviation risk factors, conduct a statewide survey of air taxi and commuter operators and pilots, and evaluate the success of safety interventions and regulatory changes.
- In 2014, as a partner in the Mat Su Mid-Air Collision Avoidance Working Group,

NIOSH investigators analyzed data from Federal Aviation Administration (FAA) and Aviation Safety Reporting System databases. The FAA accepted the group's recommendations.



Wholesale and Retail Trade

- In 1981, NIOSH researchers published *Work Practice Guide to Manual Lifting*.
- In 1994, NIOSH researchers published the *Revised NIOSH Lifting Equation*.
- In 2013, NIOSH researchers published *Preventing Slips, Trips, and Falls in Wholesale and Retail Trade Establishments*, which focused on preventing traumatic injuries in the workplace. The guide has been adopted by retail and wholesale companies with high rates of injuries from falls.
- In 2015, the Wholesale and Retail Trade program worked with employers and trade associations to research manual material handling to prevent musculoskeletal disorders (MSDs), publishing *Ergonomic Solutions for Retailers: Prevention of Material Handling Injuries in Grocery Stores*.

Going forward

In 2019, NIOSH launched a Future of Work initiative. Several centers and working groups throughout NIOSH are working internally and in collaboration with external partners and stakeholders to address the occupational safety and health concerns surrounding the future of work.

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The Year in Review

NIOSH in 2019

Below are examples of outstanding research and communication products that advanced the field of occupational safety and health in 2019.

Occupational Exposure Banding Assesses Hazards

The gold standard for assessing and controlling work-related chemical exposure is the occupational exposure limit, or OEL. Although more than 85,000 chemicals are commercially available, according to the U.S. Environmental Protection Agency, only about 1,000 chemicals have an authoritative OEL. As new chemicals are developed and introduced into commerce, the number of chemicals without OELs increases.

To inform chemical risk management in the workplace, NIOSH developed an approach called occupational exposure banding, described in a new report, *The NIOSH Occupational Exposure Banding Process for Chemical Risk Management*, and an accompanying Occupational Exposure Banding e-Tool (e-Tool). Occupational exposure banding is an innovative, voluntary approach that uses information about a chemical's toxicity and health effects to classify it into an appropriate occupational exposure band (OEB) [NIOSH 2019].



Photo by ©Endopack/Getty Images

Scientists tested the process and e-Tool on chemicals with OELs and found that the results were accurate, reproducible, and protective because indicated recommended levels of airborne exposures were at least as protective as the established OELs.

Risk Perception Key to Workplace Safety and Health

A recent study of 1,334 workers from 20 mine sites found that miners who

avoid risk were less likely to experience near-miss incidents, according to a paper published in the *Journal of Loss Prevention in the Process Industries* [Haas and Yorio 2019]. Previous NIOSH research showed that the likelihood of future injury may increase with the number of near misses. These findings suggest that mine operators should consider how individual worker attitudes about risk perception contribute to safety management and could apply to other high-risk industries like chemical processing.



Photo by NIOSH / Wikimedia Commons

2019]. Studies have shown that a strong safety climate is associated with better safety and health outcomes. Despite advances to improve safety and health in construction, it remains one of the most hazardous industries. To address this issue, researchers at CPWR–The Center for Construction Research and Training and Washington State University partnered to develop the S-CAT. With this free online tool, respondents use text-based scales to answer questions across eight safety-climate factors.

The researchers used information from 985 respondents to confirm that these factors could reliably measure and also provide companies with a better understanding of their jobsite safety climate. With the S-CAT results in hand, a company can use CPWR’s safety climate workbook to identify specific interventions to target lower-scoring factors. Companies can then use the S-CAT at a future date to evaluate how interventions improve the safety climate.

Silicosis Evaluated Among Medicare Beneficiaries

In this novel study [Casey and Mazurek 2019], published in the *American Journal of Industrial Medicine*, investigators looked at health insurance claims and enrollment information for nearly 50 million Medicare beneficiaries age 65 and older from 1999 to 2014. Medicare beneficiaries that met one of the silicosis case definitions were mostly white, but the highest rates were

Tool Helps Construction Companies Evaluate Safety

A new resource, the Safety Climate Assessment Tool (S-CAT), can help construction companies evaluate their jobsite safety climate, reports a NIOSH-funded study published in the *Journal of Safety Research* [Probst et al.



Photo by Journal of Safety Research

found among North American Natives. The investigators found that annually 12.4 to 24.9 out of 100,000 beneficiaries had an indication of silicosis in their medical claims. By state, New Mexico, West Virginia, and Utah had the highest rates of silicosis during the 16 years studied. While new cases of silicosis declined from 2002 to 2014, the number of prevalent cases remained constant from 2005 to 2014. These results are consistent with findings from previous silicosis studies in different populations and show how health insurance claims can inform our understanding of silicosis.



Photo by ©Pongmoji/Getty Images

Slip-resistant Shoes Reduce Compensation Claims

Food services operations where workers received free highly slip-resistant shoes showed a large reduction in workers' compensation claims for slip injuries compared with food service operations where workers did not receive the shoes, according to research [Bell et al. 2019] published in the *Scandinavian Journal of Work, Environment & Health*.

Slips, trips, and falls are the third-leading cause of U.S. non-fatal work-related injuries involving days away from work across all industries. Almost 80% of these injuries are on the same level, and these injuries are estimated to cost nearly \$13 billion in direct workers' compensation-related costs annually. Laboratory tests have shown that



Photo by NIOSH

slip-resistant shoes designed with a special tread helped prevent slipping, but studies in actual workplaces were lacking.

Investigators looked specifically at workers' compensation injury claims caused by slipping on wet or greasy surfaces, the type of incident that the shoes were designed to prevent. School districts filed 67% fewer claims for slip injuries after being provided the slip-resistant shoes, compared with no reduction in claims at the school districts that did not receive the shoes.

Needlestick Risk Greatest When Police Do Searches

A recently published NIOSH study [de Perio et al. 2019] in the *American Journal of Infection Control* found that needlestick injuries and other exposures to body substances in one city police department were infrequent but most likely to occur during pat-down and personal property searches. The police department comprised about 1,000 sworn police officers and 125 civilian workers.

Results showed that 13 needlestick injuries occurred during the 6 years studied. These injuries were most likely when police officers performed pat-down,



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property, and vehicle searches. Nine of 11 people searched or otherwise involved in these events tested positive for the hepatitis C virus upon subsequent evaluation. Also, 37 additional body substance exposures occurred from spitting, human bites, and other forms of exposure to blood. None of the police officers were reported to be infected by viruses transmitted by blood. These findings indicate that while needlestick injuries and other body substance exposures occurred infrequently in the police department, they still presented a risk.

Drug Exposures Highlight Need to Protect Responders

In two recent incidents, law enforcement officers developed health symptoms after exposure to opioids and other drugs at work that prevented them from performing their duties. These incidents highlight the need for policies and procedures, as well as education



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and training about exposure prevention, according to a report published in the *American Journal of Industrial Medicine* [Chiu et al. 2019].

After officers in two law enforcement agencies experienced health effects related to potential opioid exposure, the agencies requested assistance through the NIOSH Health Hazard Evaluation Program, which provides free workplace evaluations.

The first incident occurred in 2017 when white powder fell onto an officer during a traffic stop in New Hampshire. In the second incident, in 2018, four officers developed symptoms while responding to a call about a possible drug overdose in Virginia. NIOSH investigators interviewed the officers and others and reviewed medical records, incident reports, laboratory results, and body camera footage if available. They found that both incidents involved several types of drugs: opioids, such as fentanyl; and stimulants, including cocaine and methamphetamine. All five officers reported nonspecific symptoms that required medical attention and temporarily prevented them from working, but the symptoms were not consistent with severe or life-threatening opioid toxicity. Although the routes of exposure were not well characterized, the investigators made recommendations to prevent such incidents.

Graphs Improve Studies of Work Exposures in Pregnancy

A NIOSH study [Johnson et al. 2019] used a graphing technique to show how to account for healthy worker effects in studies of work-related exposures in pregnancy.

Workers often tend to be healthier and live longer than their unemployed peers, who may be unable to work due to illness or other issues. A recent study by NIOSH and a university partner aimed to understand how to account for these “healthy worker effects” in studies among pregnant workers.



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Most information on how to account for healthy worker effects comes from studies of long-term diseases and deaths. Since pregnancy is a comparatively short, defined period, pregnancy-related studies need a different approach.

The study used a graphing technique to depict when during pregnancy healthy worker effects were most likely to occur. In addition to the healthy hire effect, which refers to healthier pregnant women being more likely to work, researchers used graphs to look at several possibilities:

- Situations when socioeconomic differences influence who returns to work after pregnancy.
- Women with live births leaving the workforce.
- Women with a previous complicated pregnancy leaving the workforce before the relevant high-risk period occurs.
- Women leaving the workforce at different times depending on various exposures during pregnancy.

Researchers found that using graphs helped accurately identify when during pregnancy each healthy worker effect is most likely. By restricting research to these specific times, and to women already working during these times, researchers

can account for these healthy worker effects in their studies of work exposures during pregnancy.

Curriculum Improves Adolescents' Knowledge

U.S. adolescents (<18 years old) experience a higher rate of job-related injuries compared with adults. Safety education is considered critical to the prevention of these incidents.

To prepare middle- and high-school students for safe and healthy employment, NIOSH and its partners developed a free curriculum, *Youth@Work—Talking Safety*, built on a theoretical framework of foundational workplace safety and health competencies that are fundamental to all jobs. In a new study [Guerin et al. 2019] published in *Prevention Science*, investigators from the NIOSH Safe-Skilled-Ready Workforce Program examined the impact of the *Talking Safety* curriculum on students' knowledge and perceptions of workplace safety and health. The curriculum was delivered by science teachers with strict adherence to the program as it was designed by NIOSH. After receiving curriculum instruction, more than 1,700 eighth graders in Miami-Dade, Florida, the fourth largest



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U.S. school district, scored statistically significantly higher on the outcomes assessed. Specifically, their average scores increased in workplace safety knowledge (34%); attitude (5%); perceived norms related to workplace safety behaviors (7%); self-efficacy, or confidence in one's ability to take appropriate action (7%); and behavioral intention to engage in workplace safety activities (7%).

These findings build on previous research by the same investigators and support using this curriculum to provide adolescents with critical life skills for safe and healthy work.

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Top 5 NIOSH 2019 Products by Altmetric Score

	Endotoxin and (1→3)-β-D-Glucan Contamination in Electronic Cigarette Products Sold in the United States <i>Environmental Health Perspectives</i> , April 2019
	Tuberculosis Screening, Testing, and Treatment of U.S. Health Care Personnel: Recommendations From the National Tuberculosis Controllers Association and CDC, 2019 <i>MMWR: Morbidity & Mortality Weekly Report</i> , May 2019
	Suicide Among Veterinarians in the United States from 1979 Through 2015 <i>Journal of the American Veterinary Medical Association</i> , January 2019
	The Evidence of Human Exposure to Glyphosate: a Review <i>Environmental Health</i> , January 2019
	Trust in the Work Environment and Cardiovascular Disease Risk: Findings from the Gallup-Sharecare Well-Being Index <i>International Journal of Environmental Research and Public Health</i> , January 2019

The Colors of the Donut

-  Policy documents
-  News
-  Blogs
-  Twitter
-  Post-publication peer-reviews
-  Facebook
-  Sina Weibo
-  Syllabi
-  Wikipedia
-  Google+
-  LinkedIn
-  Reddit
-  Research highlight platform
-  Q&A (Stack Overflow)
-  Youtube
-  Pinterest
-  Patents

Journals Publishing NIOSH Articles in 2019

Rank	Top Journals Ranked by Number of NIOSH Articles Published	No.
1	Transactions of the Society for Mining, Metallurgy, and Exploration	21
2	Mining, Metallurgy & Exploration	20
3	Journal of Occupational and Environmental Hygiene	19
4	Morbidity and Mortality Weekly Report	18
5	American Journal of Industrial Medicine	17
6	Annals of Work Exposures and Health	10
7	International Journal of Mining Science and Technology	8
8	Journal of Occupational and Environmental Medicine	7
9	Journal of the Acoustical Society of America	6
10	International Journal of Environmental Research and Public Health Safety and Health at Work Safety Science	5
11	Applied Ergonomics Inhalation Toxicology International Journal of Audiology Nanotoxicology	4
12	Aerosol Science and Technology Health Security International Journal of Coal Science & Technology International Journal of Hygiene and Environmental Health Journal of Asthma Journal of the American Veterinary Medical Association Journal of Toxicology and Environmental Health, Part A: Current Issues Policing: An International Journal of Police Strategies and Management Public Library of Science One Rock Mechanics and Rock Engineering Toxicology and Applied Pharmacology	3

of Evaluation • American Journal of Health Promotion • American Journal of Infection Control • American Journal of Medical Quality • American Journal of Physiology: Cell Physiology • American Journal of Respiratory and Critical Care Medicine • American Journal of Respiratory Cell and Molecular Biology • Annals of Internal Medicine • Anthrozoos • Anticancer Research • Biomarkers • Biometrics • BMC Musculoskeletal Disorders • BMC Public Health • Chemosphere • Chest • Clinical and Experimental Dermatology • Clinical Infectious Diseases • Cochrane Database of Systematic Reviews • Current Opinion in Allergy and Clinical Immunology • Current Opinion in Immunology • Cutaneous and Ocular Toxicology • Disaster Medicine and Public Health Preparedness • Engineering Failure Analysis • Environmental International • Environmental Monitoring and Assessment • Environmental Science: Nano • Epidemiology • Ergonomics • European Journal of Applied Physiology • European Journal of Pain • Fire Technology • Free Radical Biology and Medicine • Frontiers in Pharmacology • GLIA • Health Communication • Health Physics • Home Health Care Management and Practice • Human Factors • IEEE Transactions on Industry Applications • IISE Transactions on Occupational Ergonomics and Human Factors • Infection Control and Hospital Epidemiology • Injury Prevention • International Journal of Biometeorology • International Journal of Hyperthermia • JAMA Network Open • Journal of Aerosol Science • Journal of Applied Physiology • Journal of Biomechanics • Journal of Burn Care & Research • Journal of Chromatographic Science •

Journals Publishing Two Articles

American Journal of Human Biology • American Journal of Preventive Medicine • Analytical Chemistry • Archives of Environmental & Occupational Health • Archives of Toxicology • Chemical Research in Toxicology • Coal Age • Current Environmental Health Reports • Dermatitis • Emerging Infectious Diseases • Industrial Health • International Journal of Industrial Ergonomics • International Journal of Molecular Sciences • Journal of Agromedicine • Journal of Chemical Health and Safety • Journal of Exposure Science and Environmental Epidemiology • Journal of Immunotoxicology • Journal of Loss Prevention in the Process Industries • Journal of Oncology Pharmacy Practice • Journal of Safety Research • NanoImpact • Occupational and Environmental Medicine • Particle and Fibre Toxicology • Pit & Quarry • Police Chief • Preventing Chronic Disease • Scandinavian Journal of Work, Environment & Health • Scientific Reports • The American Journal of Nursing • Toxicological Sciences • Zoonoses and Public Health

Journals Publishing One Article

Accident Analysis and Prevention • Advanced Powder Technology • Aerobiologia • Aerosol and Air Quality Research • Air Quality, Atmosphere, & Health • Allergy • American Journal of Disaster Medicine • American Journal of Epidemiology • American Journal

Journal of Clinical Sleep Medicine • Journal of Emergency Management • Journal of Environmental Health • Journal of Hazardous Materials • Journal of Leukocyte Biology • Journal of Neurochemistry • Journal of Occupational Health Psychology • Journal of Occupational Medicine and Toxicology • Journal of Police and Criminal Psychology • Journal of Public Health Management and Practice • Journal of School Health • Journal of Sustainable Mining • Journal of Testing and Evaluation • Journal of the Air and Waste Management Association • Journal of the American Medical Association • Journal of the American Medical Directors Association • Journal of the Experimental Analysis of Behavior • Journal of the International Society for Respiratory Protection • Journal of Trace Elements in Medicine and Biology • Journal of Workplace Behavioral Health • Lancet Oncology • Lighting Research & Technology • Measurement • Medical Mycology • Metabolism: Clinical and Experimental • Microscopy Research and Technique • Mining Engineering • Mutation Research • Nano Letters • National Institute for Occupational Safety and Health • Neuroscience • Neurotoxicology • New England Journal of Medicine • Noise Control Engineering Journal • Nursing Outlook • Prevention Science • Progress in Electromagnetics Research C • Respiration • Risk Analysis • RSF: The Russell Sage Foundation Journal of the Social Sciences • Safety • Southwest Journal of Pulmonary and Critical Care • SSM - Population Health • The Hearing Journal • The Journal of Infectious Diseases • The Journals of Gerontology Series A: Biological Sciences and Medical Sciences • The Journals of Gerontology Series B: Psychological Sciences and Social Sciences • The Laryngoscope • The Psychological Record • Toxicologic Pathology • Toxicology Letters • Toxicology Reports • Traffic Injury Prevention • Work

Journal Articles

NOTE: The electronic form of the *NIOSH Bibliography of Communication and Research Products*, available at <https://www.cdc.gov/niosh/awards/>, offers links to NIOSHTIC-2 pages and online access to many NIOSH products featured in this publication.

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NIOSH TIC-2: [20057074](#)

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NIOSH TIC-2: [20055150](#) | NORA: Services

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NIOSH TIC-2: [20055644](#) | NORA: Services

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NIOSH TIC-2: [20054226](#)

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NIOSH TIC-2: 20055322

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NIOSHTIC-2: [20058165](#) | NORA: Services

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Author Index

NOTE: For electronic versions of the NIOSH Bibliography, NIOSHTIC-2 numbers are linked to the corresponding page in the NIOSHTIC-2 Bibliographic Database. Clicking on page numbers will cause the page to jump to the corresponding reference. Blue type indicates links.

- Aasmoe L**
[20057270](#), Page 5
- Abdel Rahman AM**
[20057270](#), Page 5
- Abraham JL**
[20056995](#), Page 8
- Abukabda AB**
[20054699](#), Page 16
[20054789](#), Page 1
[20055104](#), Page 5
- Acuna-Villaorduna C**
[20057853](#), Page 11
- Adav SS**
[20058215](#), Page 15
- Addis J**
[20057677](#), Page 73
- Addis JD**
[20055593](#), Page 13
[20056092](#), Page 32
[20058593](#), Page 84
[20058598](#), Page 79
- Adjemian J**
[20057099](#), Page 32
- Afanuh S**
[20055929](#), Page 54
[20057317](#), Page 54
[20057318](#), Page 58
- Afshari A**
[20054981](#), Page 85
- Agarwal S**
[20054981](#), Page 85
- Aguila C**
[20053794](#), Page 36
- Ahir S**
[20053794](#), Page 36
- Ahmed F**
[20056389](#), Page 14
- Ahmed FK**
[20055685](#), Page 20
- Ahn CH**
[20056285](#), Page 39
- Ahroon WA**
[20058015](#), Page 9
- Ahuka-Mundeke S**
[20058128](#), Page 2
- Akdis CA**
[20055563](#), Page 3
- Akinbami LJ**
[20054943](#), Page 1
- Al Mohajer M**
[20056003](#), Page 7
- Al-Tarawneh IS**
[20056355](#), Page 26
- Alarcon W**
[20054748](#), Page 40
- Alavanja MC**
[20053704](#), Page 9
- Alcorn L**
[20058382](#), Page 65
[20058416](#), Page 66
- Aldinger J**
[20055001](#), Page 79
- Aldridge M**
[20052810](#), Page 23
- Alexander BM**
[20057362](#), Page 87
- Alexander CM**
[20054926](#), Page 5
- Allen D**
[20053794](#), Page 36
- Allison MA**
[20054196](#), Page 40
- Allison P**
[20054540](#), Page 12
[20055654](#), Page 19
[20056685](#), Page 1
[20058167](#), Page 1
[20058412](#), Page 63
- Allison PJ**
[20058109](#), Page 1
- Alpert G**
[20056744](#), Page 39
- Alterman T**
[20054463](#), Page 2
[20055770](#), Page 39
[20055788](#), Page 2
[20056483](#), Page 11
- Amoscato AA**
[20055977](#), Page 39
- Anassi E**
[20056003](#), Page 7
- Anderson JL**
[20054661](#), Page 2
[20055987](#), Page 93
- Anderson S**
[20055074](#), Page 77
[20056063](#), Page 55
[20058522](#), Page 77
- Anderson SE**
[20054473](#), Page 33
[20055010](#), Page 83
[20055068](#), Page 33
[20056209](#), Page 2
[20057885](#), Page 31
- Andersson E**
[20057270](#), Page 5
- Andreotti G**
[20053704](#), Page 9
- Andrew ME**
[20051615](#), Page 40
[20052931](#), Page 24
[20054474](#), Page 18
[20054551](#), Page 12
[20055525](#), Page 35
[20055654](#), Page 19
[20056411](#), Page 25
[20056685](#), Page 1
[20057355](#), Page 14
[20057988](#), Page 83
[20058010](#), Page 85
[20058109](#), Page 1
[20058167](#), Page 1
- Andrews R**
[20054947](#), Page 85
[20056661](#), Page 5
- Angel KA**
[20057574](#), Page 41
- Annesi-Maesano I**
[20056057](#), Page 4
- Annor FB**
[20057600](#), Page 26
- Ansari AJ**
[20054661](#), Page 2
- Anthonymuthu TS**
[20055977](#), Page 39
- Antonini J**
[20054913](#), Page 84
[20054947](#), Page 85
[20054953](#), Page 77
[20054965](#), Page 81
[20055073](#), Page 78
- Antonini JM**
[20054452](#), Page 34
[20054851](#), Page 2
- Applebaum KM**
[20056468](#), Page 2
- Arbour MW**
[20058409](#), Page 66
- Armour BS**
[20057099](#), Page 32
- Artus A**
[20054407](#), Page 14
- Aruna A**
[20058128](#), Page 2
- Ashner M**
[20055166](#), Page 80
- Asfaw A**
[20055316](#), Page 37
[20056468](#), Page 2
[20057455](#), Page 2
- Asfaw AG**
[20055915](#), Page 3
- Ashbrook D**
[20054979](#), Page 80
- Ashley K**
[20056661](#), Page 5
- Atmar RL**
[20056003](#), Page 7

- Attfield K**
20054944, Page 82
- Attfield M**
20057704, Page 16
- Azman A**
20056296, Page 57
20057974, Page 3
20057367, Page 63
20058417, Page 63
- Azman AS**
20054867, Page 37
20056638, Page 22
20056580, Page 37
20058386, Page 70
20058419, Page 70
- B'Hymer CB**
20055687, Page 4
- Babski-Reeves K**
20058261, Page 69
- Bach J**
20057824, Page 62
- Bachelor VD**
20056995, Page 8
- Bahadori T**
20056823, Page 18
- Bahar I**
20053239, Page 36
- Bahrami D**
20056090, Page 3
20057558, Page 63
20056245, Page 75
20058600, Page 77
- Bailey RL**
20057747, Page 94
- Bair P**
20058045, Page 34
- Baker BA**
20054550, Page 27
20057641, Page 31
- Baker D**
20056567, Page 57
20057586, Page 58
- Baker DS**
20055391, Page 14
20056074, Page 15
- Baldwin CM**
20057352, Page 6
20057982, Page 78
20058404, Page 6
- Baldwin G**
20057830, Page 7
- Baldwin GT**
20057099, Page 32
20057796, Page 5
20057840, Page 19
20058606, Page 5
- Ball S**
20054788, Page 43
- Balmes JR**
20056057, Page 4
- Bamrah Morris S**
20055854, Page 36
- Bancos S**
20053794, Page 36
- Bang B**
20057270, Page 5
- Bao S**
20052447, Page 14
- 20056857, Page 43
20058268, Page 67
- Baran AJ**
20056258, Page 3
- Barber T**
20055001, Page 79
- Barger L**
20058409, Page 66
- Barger M**
20055035, Page 85
20055039, Page 84
20056891, Page 21
- Barile JP**
20055391, Page 14
- Barim MS**
20058251, Page 67
20058254, Page 69
20058255, Page 63
- Barkley JE**
20055822, Page 13
- Barnes MA**
20054962, Page 82
20057785, Page 8
20058216, Page 23
- Barnes Z**
20053525, Page 26
- Barone T**
20057559, Page 70
20057818, Page 6
- Barone TL**
20056258, Page 3
- Barr JR**
20057796, Page 5
20058606, Page 5
- Barrett C**
20057769, Page 3
- Barton C**
20057171, Page 33
20057184, Page 33
- Barupal DK**
20056823, Page 18
- Basinas I**
20053996, Page 23
20053997, Page 23
- Batchelor TP**
20054789, Page 1
20055104, Page 5
- Batchler TJ**
20057563, Page 64
- Battelli L**
20054872, Page 82
20054947, Page 85
- Battelli LA**
20055525, Page 35
20056574, Page 25
20057773, Page 18
- Bauer AK**
20057535, Page 34
- Bauer E**
20057388, Page 74
- Bauerle T**
20054225, Page 42
- Bauerle TJ**
20058410, Page 69
- Baumann EJ**
20055890, Page 36
20058223, Page 42
- Baur R**
20055074, Page 77
- Baur X**
20055563, Page 3
- Bayir H**
20053239, Page 36
20055977, Page 39
- Beach J**
20057572, Page 17
- Beamer B**
20058383, Page 64
20058418, Page 64
20058420, Page 66
- Beamer BR**
20055690, Page 38
- Beane Freeman LE**
20053704, Page 9
20055748, Page 31
- Beatty N**
20054407, Page 14
- Beaty M**
20055134, Page 94
- Beaty MC**
20055132, Page 97
- Beaucham C**
20054790, Page 14
20057066, Page 97
- Beaucham CC**
20054224, Page 3
20055191, Page 95
20057279, Page 95
- Beck TW**
20055360, Page 30
20055361, Page 3
20056258, Page 3
20057210, Page 72
- Beer KD**
20056003, Page 7
- Beezhold D**
20056063, Page 55
20056908, Page 94
- Beezhold DH**
20054397, Page 7
20054962, Page 82
20056639, Page 8
20057785, Page 8
20058216, Page 23
- Begay J**
20055017, Page 85
- Beland FA**
20056823, Page 18
- Belgrad J**
20056864, Page 3
- Belknap R**
20055854, Page 36
- Bell JL**
20054007, Page 4
20056113, Page 29
- Bellanca J**
20056105, Page 23
- Bellanca JL**
20054470, Page 4
20054472, Page 4
20055607, Page 65
20055610, Page 64
20056016, Page 77
20056106, Page 37
20056338, Page 70
20056339, Page 64
- 20057544, Page 65
20057562, Page 64
20057901, Page 38
20058594, Page 77
20058602, Page 85
- Bello D**
20057608, Page 29
- Belpoggi F**
20056823, Page 18
- Belval LN**
20054785, Page 18
- Ben-Hamo R**
20056660, Page 26
- Benbrahim-Tallaa L**
20056823, Page 18
- Bennett J**
20058640, Page 78
20058641, Page 77
- Benowitz I**
20057798, Page 24
- Benson SM**
20057401, Page 4
- Berger A**
20057352, Page 6
20057982, Page 78
20058404, Page 6
- Berger AM**
20058409, Page 66
- Bergman M**
20058136, Page 74
20058374, Page 42
- Bergman MS**
20055823, Page 44
20055921, Page 4
- Bernard AL**
20056074, Page 15
- Bernard TE**
20055445, Page 4
- Bernzweig D**
20058412, Page 63
- Berrington de Gonzalez A**
20056823, Page 18
- Berry C**
20056942, Page 65
- Berry CA**
20056011, Page 28
20057365, Page 83
- Bertke S**
20054596, Page 8
20054639, Page 25
20056192, Page 8
20056247, Page 11
20056341, Page 11
20056484, Page 11
- Bertke SJ**
20057390, Page 46
- Bertone-Johnson ER**
20055467, Page 20
- Bessen MT**
20057229, Page 29
- Betit E**
20056566, Page 57
- Bhattacharya A**
20057053, Page 58
20057989, Page 78

- Bhattacharya K**
20057608, Page 29
- Bickson J**
20057388, Page 74
20057560, Page 65
- Billotte W**
20057456, Page 62
- Billotte WG**
20055332, Page 24
- Birch EM**
20055011, Page 79
- Birch ME**
20053612, Page 22
20056285, Page 39
- Bishop L**
20055011, Page 79
20056044, Page 27
- Bissert PT**
20055363, Page 24
- Blachere FM**
20055238, Page 11
20057709, Page 24
- Black C**
20054788, Page 43
- Blackley BH**
20055132, Page 97
20055133, Page 94
20057074, Page 96
- Blackley D**
20055621, Page 9
20057704, Page 16
20057784, Page 22
- Blackley DJ**
20055622, Page 15
20055903, Page 16
20057239, Page 15
- Blair A**
20053704, Page 9
- Blank A**
20055579, Page 53
- Blanc PD**
20056057, Page 4
- Blando JD**
20054940, Page 31
- Blaser MJ**
20056995, Page 8
- Block ML**
20054962, Page 82
- Blount BC**
20057796, Page 5
20058606, Page 5
- Board M**
20056207, Page 30
- Boden LI**
20056468, Page 2
- Boggs KM**
20057604, Page 10
- Boiano J**
20056298, Page 56
- Boiano JM**
20052450, Page 35
20054177, Page 22
20056263, Page 27
- Bojes H**
20057308, Page 31
- Bolevich SB**
20053239, Page 36
- 20055977, Page 39
- Bonlokke JH**
20057270, Page 5
- Bonzini M**
20054192, Page 7
- Booth FW**
20057641, Page 31
- Boots T**
20054953, Page 77
20054965, Page 81
- Borsh FB**
20056661, Page 5
- Boshuizen V**
20053777, Page 29
- Boutin B**
20055921, Page 4
- Bouvard V**
20056823, Page 18
- Bovbjerg VE**
20054532, Page 38
20056578, Page 38
- Bowdridge EC**
20054789, Page 1
20055104, Page 5
- Bowers L**
20054872, Page 82
20054915, Page 83
20055076, Page 79
20057397, Page 11
- Bowers LN**
20053918, Page 36
20055890, Page 36
20056110, Page 36
20056574, Page 25
20058223, Page 42
- Bowyer M**
20055320, Page 91
- Bowyer ME**
20054006, Page 16
20056137, Page 92
20057542, Page 92
- Boyce G**
20054913, Page 84
20054953, Page 77
20054965, Page 81
20055035, Page 85
20055073, Page 78
- Boyce GR**
20054851, Page 2
- Boyd J**
20055169, Page 83
- Boylstein RJ**
20055134, Page 94
20056995, Page 8
- Brady S**
20056282, Page 39
- Braganza S**
20057208, Page 67
- Brame J**
20055350, Page 20
- Branche C**
20056565, Page 57
- Brandebura AN**
20054699, Page 16
- Braselton M**
20058606, Page 5
- Braun BI**
20054926, Page 5
- Braun CR**
20054748, Page 40
- Breloff SP**
20053166, Page 6
20056636, Page 5
20057342, Page 41
20057883, Page 6
- Brennan S**
20058045, Page 34
- Brenner SA**
20054925, Page 27
- Briggs G**
20056282, Page 39
- Briss P**
20057796, Page 5
20057830, Page 7
20057840, Page 19
20058606, Page 5
- Briss PA**
20057099, Page 32
20057600, Page 26
- Broadwater K**
20055183, Page 93
20055787, Page 97
20055827, Page 95
20058126, Page 94
20058129, Page 94
- Broderick G**
20056660, Page 26
- Brogmus G**
20057456, Page 62
- Bromley-Collidge S**
20056864, Page 3
- Brosius CR**
20058606, Page 5
- Brosseau LM**
20055469, Page 34
- Brown AC**
20057229, Page 29
- Brown KK**
20057694, Page 6
- Brown L**
20057201, Page 14
- Browne P**
20056823, Page 18
- Broyles G**
20057791, Page 6
20057793, Page 17
- Brueck SE**
20055129, Page 93
20055365, Page 93
20055987, Page 93
20057719, Page 99
- Buchta W**
20055854, Page 36
- Budnik LT**
20055563, Page 3
- Bugarski AD**
20057818, Page 6
20056024, Page 65
- Bulabula J**
20058128, Page 2
- Bulemfu D**
20058128, Page 2
- Bunker K**
20055011, Page 79
20057535, Page 34
- Burch JB**
20054474, Page 18
- Burnett G**
20056564, Page 57
- Burns DA**
20054226, Page 96
20055321, Page 96
20058223, Page 42
- Burr G**
20055205, Page 98
- Burrer S**
20056849, Page 40
- Burrer SL**
20056389, Page 14
- Burton N**
20057317, Page 54
20058045, Page 34
- Burton NC**
20054397, Page 7
- Busacker A**
20056211, Page 7
- Busey A**
20056468, Page 2
- Bush D**
20058033, Page 47
20058034, Page 48
20058035, Page 47
20058036, Page 47
20058037, Page 48
20058038, Page 51
20058040, Page 48
20058041, Page 51
20058043, Page 48
20058046, Page 48
20058076, Page 49
20058077, Page 49
20058078, Page 49
20058079, Page 49
20058080, Page 49
20058081, Page 50
20058083, Page 50
20058084, Page 50
20058085, Page 50
20058086, Page 50
20058087, Page 51
20058088, Page 51
20058090, Page 51
- Bushnell PT**
20056355, Page 26
- Bushnell T**
20056828, Page 81
- Bushover B**
20058214, Page 29
- Butler C**
20057254, Page 60
20057793, Page 17
- Butler CR**
20058412, Page 63
- Buttke D**
20056211, Page 7
- Cabrera J**
20057782, Page 19
- Cain CT**
20056566, Page 57
- Calaf GM**
20057390, Page 46
- Calafat AM**
20055955, Page 10
20056341, Page 11
20056484, Page 11

- Calamia PT**
20054278, Page 8
- Calkins M**
20057440, Page 36
- Calligaro D**
20055166, Page 80
- Calvert GM**
20054748, Page 40
- Camargo CA Jr**
20057604, Page 10
- Camargo H**
20058382, Page 65
20058416, Page 66
- Camargo HE**
20056580, Page 37
- Campen M**
20055017, Page 85
- Campen MJ**
20055064, Page 82
20055167, Page 78
20056044, Page 27
- Canal CG**
20055167, Page 78
20056044, Page 27
- Carey RE**
20057342, Page 41
20057883, Page 6
- Caridi MN**
20053420, Page 6
- Caron KT**
20058606, Page 5
- Carr J**
20056093, Page 44
20056094, Page 23
20056105, Page 23
20057556, Page 68
20057564, Page 74
20058166, Page 74
20058572, Page 86
20058597, Page 82
- Carruth D**
20056337, Page 71
- Carter KK**
20055324, Page 20
- Caruso CC**
20055821, Page 30
20056841, Page 45
20057352, Page 6
20057501, Page 47
20057982, Page 78
20058404, Page 6
20058409, Page 66
- Caruso D**
20056067, Page 55
- Casa DJ**
20054785, Page 18
- Casey M**
20056298, Page 56
20057784, Page 22
20058553, Page 78
- Casey ML**
20054384, Page 6
20055854, Page 36
- Castillo D**
20056526, Page 56
20056528, Page 58
20056820, Page 59
20057585, Page 56
20058098, Page 78
- Castillo DN**
20055496, Page 39
- Castranova V**
20054963, Page 81
20056148, Page 35
20057397, Page 11
20057608, Page 29
- Castranova VC**
20055525, Page 35
- Casuccio G**
20055011, Page 79
- Cates JE**
20057454, Page 34
- Cattrell A**
20054192, Page 7
- Cauda E**
20055444, Page 13
20055576, Page 13
20057559, Page 70
20057769, Page 3
- Cauda EG**
20054234, Page 26
20056651, Page 28
20058158, Page 28
- CDC Ebola Response**
20058128, Page 2
- CDC 2019 Lung Injury Response Group**
20057099, Page 32
- Ceballos D**
20054224, Page 3
20057316, Page 51
- Cecala AB**
20055113, Page 52
20055446, Page 7
20055454, Page 28
20056087, Page 15
20056651, Page 28
20058573, Page 80
- Cecil C**
20056978, Page 43
- Cena L**
20057535, Page 34
- Chakraborty A**
20056285, Page 39
- Chambers D**
20057796, Page 5
20058606, Page 5
- Chang C-C**
20054539, Page 38
20055915, Page 3
- Charles LE**
20054474, Page 18
20056483, Page 11
20056685, Page 1
20057355, Page 14
20058109, Page 1
- Charp P**
20054661, Page 2
- Chasens ER**
20057352, Page 6
20057982, Page 78
20058404, Page 6
20058409, Page 66
- Chasko LL**
20056092, Page 32
20058593, Page 84
- Chatham-Stephens K**
20057600, Page 26
- 20057830, Page 7
20057840, Page 19
- Chavarro JE**
20054177, Page 22
20056263, Page 27
- Check P**
20057693, Page 62
- Chen B**
20054947, Page 85
- Chen G-X**
20057990, Page 78
- Chen H**
20053704, Page 9
- Chen IC**
20055955, Page 10
- Chen T**
20055014, Page 81
- Chen YC**
20056637, Page 21
- Chew GL**
20056003, Page 7
- Childress A**
20054539, Page 38
- Childs TE**
20057641, Page 31
- Chiller TM**
20056003, Page 7
- Chiou S**
20054007, Page 4
- Chisholm WP**
20054291, Page 23
- Chiu S**
20053777, Page 29
20055027, Page 95
20055183, Page 93
20055787, Page 97
20057473, Page 98
20057719, Page 99
20058126, Page 94
20058129, Page 94
- Chiu SK**
20055680, Page 7
- Cho P**
20057830, Page 7
- Choi HS**
20056820, Page 59
- Chosewood C**
20056935, Page 59
20057056, Page 60
- Chosewood LC**
20054539, Page 38
20055929, Page 54
20056835, Page 46
20056836, Page 45
20056838, Page 46
- Chotirmall SH**
20058215, Page 15
- Chow NA**
20056003, Page 7
- Christiani DC**
20058215, Page 15
- Christianson A**
20055955, Page 10
- Christophi CA**
20057608, Page 29
- Chubb LG**
20058158, Page 28
- Chuke SO**
20054780, Page 10
- Cichowicz J**
20057020, Page 61
- Cimineri L**
20055929, Page 54
20055496, Page 39
- Cioffi DL**
20057298, Page 19
- Clingerman SM**
20057773, Page 18
- Cloutier MM**
20054943, Page 1
- Coffey C**
20057020, Page 61
- Coggon D**
20054192, Page 7
- Cohen R**
20057704, Page 16
- Cohen RA**
20055903, Page 16
- Colby TV**
20056995, Page 8
- Cole A**
20057773, Page 18
- Cole GP**
20056245, Page 75
- Colinet JF**
20054234, Page 26
20055113, Page 52
20055446, Page 7
20055608, Page 68
20056087, Page 15
20058573, Page 80
- Collins D**
20057208, Page 67
- Collins JW**
20054007, Page 4
- Colosio C**
20057390, Page 46
- Comba P**
20056823, Page 18
- Compton CS**
20057682, Page 68
- Connor TH**
20050350, Page 25
20050417, Page 31
20054177, Page 22
- Cope N**
20057206, Page 67
- Corstvet J**
20058606, Page 5
- Cort J**
20058259, Page 66
- Cote A**
20056211, Page 7
- Couch J**
20056908, Page 94
- Couch JR**
20054397, Page 7
20056639, Page 8
- Courtney-Long EA**
20057099, Page 32
- Cowan E**
20057796, Page 5
20058606, Page 5

- Cox J**
20057959, Page 8
- Cox-Ganser J**
20056525, Page 56
20057074, Page 96
20057159, Page 40
- Cox-Ganser JM**
20054827, Page 38
20056003, Page 7
20056995, Page 8
20057747, Page 94
- Coyle J**
20054977, Page 85
20054978, Page 78
20054981, Page 85
20055003, Page 81
20057888, Page 21
- Craig E**
20053794, Page 36
- Crawford JA**
20056995, Page 8
- Cree IA**
20056823, Page 18
- Crigger C**
20056978, Page 43
- Crosby AE**
20054178, Page 39
- Cross R**
20055165, Page 30
20056652, Page 30
20057962, Page 30
- Crossa A**
20053777, Page 29
- Croston TL**
20057785, Page 8
20058216, Page 23
- Crowe M**
20050488, Page 12
- Cruz M**
20057782, Page 19
- Cruz MJ**
20055563, Page 3
- Cuevas E**
20055166, Page 80
- Cui L**
20055943, Page 45
- Cummings DA T**
20057229, Page 29
- Cummings K**
20053232, Page 16
- Cummings KJ**
20053610, Page 23
20054933, Page 37
20056057, Page 4
20056995, Page 8
20057773, Page 18
20057994, Page 17
- Cumpston A**
20057773, Page 18
- Cumpston J**
20054947, Page 85
- Cunningham T**
20056564, Page 57
20057261, Page 61
- Cunningham TR**
20058414, Page 66
- Curti S**
20057572, Page 17
- Cybulski K**
20055580, Page 67
- D'Alessandro M**
20056066, Page 55
20057254, Page 60
20058097, Page 79
- Da Silva J**
20056003, Page 7
- Dahlhamer JM**
20056034, Page 24
- Dahlman-Höglund A**
20057270, Page 5
- Dahm M**
20055062, Page 78
- Dahm MM**
20054596, Page 8
20055011, Page 79
20055214, Page 41
20056192, Page 8
- Dai F**
20056636, Page 5
20057883, Page 6
- Dai M**
20056823, Page 18
- Dale AM**
20056857, Page 43
- Dalsey EJ**
20057443, Page 61
20057862, Page 62
- Dalton P**
20055685, Page 20
- Damiano N**
20056093, Page 44
20057388, Page 74
20058572, Page 86
- Damiano NW**
20054632, Page 42
- Daniel AB**
20053794, Page 36
- Daniels RD**
20056823, Page 18
- Dar HH**
20055977, Page 39
- Das D**
20055349, Page 35
- Davidson W**
20057574, Page 41
- Davis KG**
20055214, Page 41
- Davis M**
20058045, Page 34
- Davis SK**
20054278, Page 8
- Dawson D**
20057988, Page 83
- Dawson J**
20058409, Page 66
- de Beer DJ**
20053918, Page 36
20056110, Page 36
- de Franca AG**
20055942, Page 31
- de Groene GJ**
20057572, Page 17
- De Jesús VR**
20057796, Page 5
- 20058606, Page 5
- De La Cruz Perez R**
20057782, Page 19
- de Perio MA**
20053422, Page 9
20054664, Page 8
20054748, Page 40
20054788, Page 43
20054933, Page 37
20055680, Page 7
20057574, Page 41
20057798, Page 24
20058045, Page 34
- De Roos AJ**
20054196, Page 40
- Deb S**
20056337, Page 71
- DeBlois JP**
20055381, Page 18
- DeGennaro C**
20057556, Page 68
- DeHart WB**
20054551, Page 12
- Deiters KK**
20058015, Page 9
- Delaney L**
20056815, Page 57
20057600, Page 26
20057796, Page 5
- Delaney LJ**
20056849, Page 40
20057830, Page 7
20057840, Page 19
20058606, Page 5
- Demers PA**
20056823, Page 18
- Demich B**
20052163, Page 32
20054470, Page 4
20055610, Page 64
20056016, Page 77
20056338, Page 70
20057562, Page 64
- Demokritou P**
20054977, Page 85
20054978, Page 78
20055003, Page 81
20057608, Page 29
20057888, Page 21
20058215, Page 15
- Dempsey PG**
20056466, Page 24
20056580, Page 37
- Derk R**
20054977, Page 85
20054978, Page 78
20054981, Page 85
20055003, Page 81
20057888, Page 21
- Desai I**
20054919, Page 79
- Desai IC**
20056576, Page 42
- DeSisto CL**
20057600, Page 26
- Deuster PA**
20054785, Page 18
- Dewey R**
20058033, Page 47
20058034, Page 48
- 20058035, Page 47
20058036, Page 47
20058037, Page 48
20058038, Page 51
20058040, Page 48
20058041, Page 51
20058043, Page 48
20058046, Page 48
20058076, Page 49
20058077, Page 49
20058078, Page 49
20058079, Page 49
20058080, Page 49
20058081, Page 50
20058083, Page 50
20058084, Page 50
20058085, Page 50
20058086, Page 50
20058087, Page 51
20058088, Page 51
20058090, Page 51
- Deye G**
20057143, Page 22
- Deziel NC**
20053704, Page 9
- DiFrancesco J**
20058383, Page 64
20058418, Page 64
20058420, Page 66
- Difranco N**
20052447, Page 14
- Ding M**
20055001, Page 79
- Dinu CZ**
20054981, Page 85
20056637, Page 21
20057960, Page 37
- Dobie RA**
20053320, Page 18
- Dodd KE**
20055613, Page 9
20056658, Page 9
- Dodd T**
20054947, Page 85
- Dodd TM**
20057773, Page 18
- Donahue S**
20054788, Page 43
- Doney B**
20053921, Page 22
20054787, Page 9
20055327, Page 38
- Doney BC**
20055621, Page 9
- Dong C**
20056148, Page 35
20056388, Page 35
- Dong J**
20057426, Page 9
20057611, Page 9
- Dong RG**
20054680, Page 42
- Donlin M**
20054947, Page 85
- Dos Santos Teixeira V**
20058640, Page 78
- Dougherty H**
20054056, Page 10
20057384, Page 74
20057677, Page 73

- Dowell C**
 20055225, Page 53
 20056815, Page 57
- Dowell CH**
 20056849, Page 40
 20055714, Page 58
- Downes A**
 20051423, Page 10
- Dozier AK**
 20054781, Page 43
- Drake P**
 20057257, Page 61
- Drenzek C**
 20058045, Page 34
- Driscoll J**
 20055360, Page 30
- du Plessis JL**
 20056110, Page 36
 20053918, Page 36
- du Preez S**
 20056110, Page 36
 20053918, Page 36
- Dubaniewicz M**
 20055765, Page 43
- Dubaniewicz MT**
 20057083, Page 10
- DuBose W**
 20054225, Page 42
- DuCarme J**
 20055364, Page 27
 20055443, Page 23
- Duchaine C**
 20057959, Page 8
- Dufour JS**
 20058256, Page 73
- Duling M**
 20055035, Page 85
 20056066, Page 55
- Duling MG**
 20056110, Page 36
 20053918, Page 36
 20058223, Page 42
 20055132, Page 97
- Dumas O**
 20057604, Page 10
- Durr AJ**
 20054699, Page 16
- Dutta A**
 20056636, Page 5
 20057883, Page 6
- Dutta DJ**
 20056864, Page 3
- Dyduch Z**
 20055580, Page 67
- Dzugan J**
 20058398, Page 68
- Earl BR**
 20055942, Page 31
- Earnest GS**
 20056565, Page 57
 20056566, Page 57
- Eastlake A**
 20053675, Page 17
 20057053, Page 58
- Eastlake AC**
 20054925, Page 27
- Echt A**
 20057360, Page 87
 20057374, Page 87
 20058064, Page 87
 20058165, Page 99
- Echt H**
 20058165, Page 99
- Edidi F**
 20058128, Page 2
- Ediger MD**
 20055391, Page 14
- Edmonson JC**
 20057352, Page 6
 20057982, Page 78
 20058409, Page 66
- Edwards J**
 20056747, Page 43
- Edwards N**
 20056899, Page 41
- Edwards NT**
 20054178, Page 39
- Efroni S**
 20056660, Page 26
- Egan KB**
 20054780, Page 10
- Eggerth DE**
 20055891, Page 10
- Eisenberg J**
 20055365, Page 93
 20055840, Page 97
 20057066, Page 97
 20057777, Page 98
- Eiter B**
 20056339, Page 64
 20057250, Page 15
- Eiter BM**
 20055447, Page 10
 20056336, Page 66
- El Ghissassi F**
 20056823, Page 18
- Eliassen AH**
 20055467, Page 20
- Elliott KC**
 20057260, Page 61
 20058398, Page 68
- Ellis M**
 20055113, Page 52
- Elson D**
 20056282, Page 39
- Elward KS**
 20054943, Page 1
- Emshoff JG**
 20055391, Page 14
- England LJ**
 20057099, Page 32
- Engles KJ**
 20055104, Page 5
- Ensey J**
 20054550, Page 27
- Epidemiology Lung Injury Response**
 20057454, Page 34
 20057600, Page 26
 20057830, Page 7
- Epperly MW**
 20055977, Page 39
- Erdely A**
 20054452, Page 34
 20054851, Page 2
 20054913, Page 84
 20054919, Page 79
 20054947, Page 85
 20054953, Page 77
 20054965, Page 81
 20055011, Page 79
 20055013, Page 80
 20055017, Page 85
 20055039, Page 84
 20055064, Page 82
 20055073, Page 78
 20055075, Page 79
 20055167, Page 78
 20056044, Page 27
- Erdely AD**
 20056576, Page 42
- Espinosa P**
 20058606, Page 5
- Esterhuizen E**
 20054057, Page 43
- Esterhuizen G**
 20057206, Page 67
- Esterhuizen GS**
 20054056, Page 10
 20055462, Page 20
 20056107, Page 33
 20057204, Page 71
 20057695, Page 10
 20058408, Page 84
- Estill CF**
 20055955, Page 10
- Evanoff BA**
 20056857, Page 43
- Evans DE**
 20055011, Page 79
 20056192, Page 8
- Evans ME**
 20057099, Page 32
 20057830, Page 7
 20057840, Page 19
- Evans T**
 20055929, Page 54
- Eye T**
 20054965, Page 81
 20055011, Page 79
 20055013, Page 80
 20055039, Page 84
- Fabio A**
 20058214, Page 29
- Failla G**
 20054661, Page 2
- Falcone L**
 20054947, Page 85
- Falcone LM**
 20053236, Page 11
- Farcas D**
 20055238, Page 11
- Farcas M**
 20055076, Page 79
- Farcas MT**
 20057397, Page 11
 20058215, Page 15
- Fatkhutdinova LM**
 20055012, Page 81
- Fauerbach LL**
 20054926, Page 5
- Fechter-Leggett ED**
 20054178, Page 39
- Fedan JS**
 20053878, Page 32
 20054889, Page 84
 20054890, Page 85
 20055525, Page 35
 20057773, Page 18
- Fekedulegn D**
 20051615, Page 40
 20052931, Page 24
 20054474, Page 18
 20056321, Page 25
 20056483, Page 11
 20057988, Page 83
 20058010, Page 85
 20058109, Page 1
 20058167, Page 1
- Fekedulegn DB**
 20056685, Page 1
- Feldmann KD**
 20055267, Page 97
 20055644, Page 96
 20055840, Page 97
 20057777, Page 98
- Felknor S**
 20056295, Page 55
- Felknor SA**
 20054192, Page 7
- Fell AK M**
 20057175, Page 21
- Felli VE**
 20054192, Page 7
- Fendinger S**
 20055579, Page 53
- Feng S**
 20058254, Page 69
 20058255, Page 63
- Fennelly KP**
 20057853, Page 11
- Fent KW**
 20054639, Page 25
 20055247, Page 13
 20055284, Page 13
 20055381, Page 18
 20055941, Page 21
 20056247, Page 11
 20056341, Page 11
 20056484, Page 11
 20058403, Page 35
- Ferguson SA**
 20055958, Page 12
- Fernandez C**
 20058606, Page 5
- Fernhall B**
 20055381, Page 18
 20058403, Page 35
- Ferreccio C**
 20056823, Page 18
- Feruson SA**
 20055166, Page 80
- Fields RD**
 20056864, Page 3
- Filios P**
 20057054, Page 59
- Findley K**
 20054379, Page 29
- Fink GK**
 20054699, Page 16

- Finklea LR**
20054661, Page 2
- Finley S**
20054225, Page 42
- Fischer A**
20055563, Page 3
- Fisher EM**
20055469, Page 34
- Fishwick D**
20056057, Page 4
- Fitzpatrick K**
20056282, Page 39
- Flaherty BP**
20057435, Page 28
- Flamme GA**
20054666, Page 12
20053320, Page 18
20058015, Page 9
- Flattery J**
20057308, Page 31
- Flesher JR**
20057773, Page 18
- Fletcher MA**
20053525, Page 26
- Fluharty KL**
20057773, Page 18
- Flynn M**
20057055, Page 60
20058398, Page 68
20058561, Page 79
- Flynn MA**
20055891, Page 10
- Folkard S**
20057091, Page 41
- Followay B**
20055822, Page 13
20056983, Page 13
- Foreman AM**
20054540, Page 12
20054551, Page 12
20055102, Page 17
20055389, Page 17
20056890, Page 12
- Forlano L**
20058045, Page 34
- Fornal C**
20054910, Page 81
- Forrester C**
20057782, Page 19
- Fortner A**
20055132, Page 97
- Fosbroke D**
20057072, Page 60
- Foster S**
20055011, Page 79
- Fowler KA**
20056899, Page 41
- Fowles J**
20054944, Page 82
- Fox B**
20058259, Page 66
- Fox RR**
20058261, Page 69
20056733, Page 12
- Foy C**
20058109, Page 1
- Franco J**
20056282, Page 39
- Franko AD**
20056995, Page 8
- Franta RJ**
20055113, Page 52
- Frasch F**
20056063, Page 55
- Fraser K**
20055011, Page 79
20055064, Page 82
- Free H**
20057719, Page 99
- Frenk SM**
20053921, Page 22
20054787, Page 9
- Friedel JE**
20054551, Page 12
20055102, Page 17
20055389, Page 17
20056890, Page 12
- Friend S**
20054789, Page 1
20054915, Page 83
20054981, Page 85
20055011, Page 79
20055076, Page 79
20055104, Page 5
- Friend SA**
20053878, Page 32
20054699, Page 16
20056574, Page 25
20057397, Page 11
- Fries M**
20057020, Page 61
20058050, Page 62
- Friesen MC**
20053704, Page 9
20055532, Page 37
- Fritz JM**
20057390, Page 46
- Fry AM**
20053777, Page 29
- Fuente A**
20056210, Page 12
- Fuentes-Lopez E**
20056210, Page 12
- Fujishiro K**
20050488, Page 12
20054196, Page 40
20057435, Page 28
20058107, Page 12
- Fukuda D**
20057683, Page 69
- Fukushima S**
20057390, Page 46
- Furlong JL**
20052073, Page 29
20054846, Page 24
- Förster-Ruhrmann U**
20055563, Page 3
- Gabel J**
20058045, Page 34
- Gaillard S**
20055444, Page 13
20055576, Page 13
- Gallagher S**
20058261, Page 69
- Galloway R**
20054407, Page 14
- Gangrade V**
20055593, Page 13
20056092, Page 32
20056741, Page 13
20057208, Page 67
20057677, Page 73
20058593, Page 84
20058598, Page 79
- Garcia A**
20057374, Page 87
- Garcia B**
20056003, Page 7
- Garcia MC**
20057600, Page 26
- Gardner M**
20057796, Page 5
20058606, Page 5
- Garner KL**
20054789, Page 1
20055104, Page 5
- Gartner J**
20054668, Page 13
- Garza E**
20056565, Page 57
20056566, Page 57
- Gasic B**
20053996, Page 23
20053997, Page 23
20055960, Page 32
- Gaskins AJ**
20056263, Page 27
- Gastañaduy PA**
20056282, Page 39
- Gavel K**
20058050, Page 62
- Gaydos CA**
20057229, Page 29
- Gearhart D**
20054057, Page 43
- Gearhart DF**
20054056, Page 10
20057204, Page 71
- Gee KL**
20058018, Page 40
- Geer Wallace MA**
20055247, Page 13
20055284, Page 13
- Geiger-Brown J**
20057501, Page 47
- Geraci C**
20054395, Page 52
20055350, Page 20
20055931, Page 55
20056812, Page 56
- Gerhart HD**
20055822, Page 13
20056983, Page 13
- Germolec D**
20053794, Page 36
- Germolec DR**
20057785, Page 8
- Ghinai I**
20058606, Page 5
- Ghosh C**
20053794, Page 36
- Ghosh R**
20056637, Page 21
- Ghosh S**
20056285, Page 39
- Gibbins J**
20056935, Page 59
20056971, Page 95
- Gibbs JL**
20053232, Page 16
20057994, Page 17
- Gibert CL**
20057229, Page 29
- Gilbert SJ**
20056369, Page 54
- Gillies SJ**
20056884, Page 40
- Giltz SM**
20054785, Page 18
- Girschik J**
20056823, Page 18
- Gladden LB**
20057641, Page 31
- Glassford E**
20056907, Page 95
20056908, Page 94
- Glassford EK**
20056639, Page 8
- Glickman EL**
20055822, Page 13
20056983, Page 13
- Glidden E**
20057600, Page 26
20057830, Page 7
- Gobel BH**
20057982, Page 78
- Godfred-Cato S**
20057454, Page 34
- Godleski J**
20057608, Page 29
- Goksel O**
20055563, Page 3
- Goldsmith WT**
20054699, Page 16
20054789, Page 1
20055104, Page 5
20057785, Page 8
20058216, Page 23
- Gong B**
20055166, Page 80
- Gonzales GT**
20056034, Page 24
- Goodier MC**
20055112, Page 14
- Goodman GV**
20055580, Page 67
- Gorman S**
20057574, Page 41
- Gorse GJ**
20057229, Page 29
- Goswami ND**
20055854, Page 36
- Gould LH**
20053777, Page 29
- Graham UM**
20054781, Page 43

- Grajewski B**
20054194, Page 20
- Grandillo P**
20058137, Page 62
- Grandner M**
20055821, Page 30
- Grant M**
20057798, Page 24
- Grant MP**
20055191, Page 95
20055649, Page 96
20056099, Page 97
20056304, Page 95
20056742, Page 98
20056907, Page 95
20056971, Page 95
20057474, Page 98
20058165, Page 99
- Graubard BI**
20053704, Page 9
- Graziano L**
20057782, Page 19
- Greby S**
20054788, Page 43
- Green BJ**
20054397, Page 7
20054962, Page 82
20056639, Page 8
20056907, Page 95
20056908, Page 94
20056995, Page 8
20057785, Page 8
20058216, Page 23
- Green FH Y**
20056995, Page 8
- Greenberger JS**
20055977, Page 39
- Greene NT**
20058015, Page 9
- Greene RL**
20052447, Page 14
20058251, Page 67
- Griffin M**
20057574, Page 41
- Griffiths PR**
20056011, Page 28
20057365, Page 83
- Grigoriev OA**
20056823, Page 18
- Grimes GR**
20055150, Page 96
20055191, Page 95
20055827, Page 95
20056639, Page 8
20056908, Page 94
20057279, Page 95
- Grimes R**
20054790, Page 14
- Grimson PJ**
20054291, Page 23
- Grinshpun SA**
20056192, Page 8
- Groenewold M**
20057201, Page 14
20056034, Page 24
- Groenewold MR**
20053422, Page 9
20056389, Page 14
- Grosch J**
20056818, Page 59
20056828, Page 81
20056829, Page 81
- Grosch JW**
20055770, Page 39
20056826, Page 45
20056831, Page 46
- Gross L**
20053777, Page 29
- Grosse Y**
20056823, Page 18
- Grounds T**
20055165, Page 30
20056652, Page 30
20057962, Page 30
- Gruden M**
20054926, Page 5
- Gruden MA**
20055854, Page 36
- Grulke EA**
20054781, Page 43
- Grundstein AJ**
20054785, Page 18
- Gu JK**
20052931, Page 24
20056321, Page 25
20057355, Page 14
20058010, Page 85
- Guagliardo SA J**
20054407, Page 14
20056211, Page 7
- Guerin R**
20056567, Page 57
20057586, Page 58
20058023, Page 80
20058567, Page 79
- Guerin RJ**
20055391, Page 14
20056074, Page 15
20058033, Page 47
20058034, Page 48
20058035, Page 47
20058036, Page 47
20058037, Page 48
20058038, Page 51
20058040, Page 48
20058041, Page 51
20058043, Page 48
20058046, Page 48
20058076, Page 49
20058077, Page 49
20058078, Page 49
20058079, Page 49
20058080, Page 49
20058081, Page 50
20058083, Page 50
20058084, Page 50
20058085, Page 50
20058086, Page 50
20058087, Page 51
20058088, Page 51
20058090, Page 51
20058414, Page 66
- Guffey S**
20055823, Page 44
- Gunstad J**
20056983, Page 13
- Guo NL**
20056148, Page 35
20056388, Page 35
20058215, Page 15
- Guo Y**
20056978, Page 43
- Guppi S**
20053634, Page 21
20054994, Page 81
20054998, Page 84
- Gupta R**
20054981, Page 85
- Gupta RK**
20057960, Page 37
- Guseva Canu I**
20057298, Page 19
- Guyton KZ**
20056823, Page 18
- Gwilliam M**
20056744, Page 39
- Gwinn WM**
20057390, Page 46
- Göen T**
20055563, Page 3
- Haas E**
20058096, Page 80
- Haas EJ**
20054378, Page 15
20055067, Page 15
20055113, Page 52
20055306, Page 15
20056018, Page 67
20056087, Page 15
20057250, Page 15
20058573, Page 80
- Habib RR**
20054192, Page 7
- Hacker KA**
20057099, Page 32
- Hafiz H**
20054926, Page 5
- Hajat A**
20057435, Page 28
- Hale C**
20057054, Page 59
20057793, Page 17
- Hale J**
20053921, Page 22
20054787, Page 9
20057704, Page 16
- Hale JM**
20055621, Page 9
- Hales T**
20055320, Page 91
20057542, Page 92
- Hall AL**
20056823, Page 18
- Hall E**
20057308, Page 31
- Hall NB**
20055622, Page 15
20057239, Page 15
- Halldin C**
20053921, Page 22
20054787, Page 9
20055528, Page 54
20055621, Page 9
20057784, Page 22
- Halldin CN**
20055622, Page 15
20055903, Page 16
20057239, Page 15
- 20057704, Page 16
- Ham JE**
20053918, Page 36
20055331, Page 16
20055890, Page 36
20056110, Page 36
- Hammill TL**
20058017, Page 22
20058070, Page 22
- Hammond D**
20055076, Page 79
20056527, Page 56
- Hammond DR**
20053918, Page 36
20055987, Page 93
20056110, Page 36
20056742, Page 98
20057397, Page 11
- Han J**
20056285, Page 39
- Hancock ML**
20054781, Page 43
- Handy RG**
20056661, Page 5
- Hanig J**
20055166, Page 80
- Hanson D**
20056942, Page 65
- Harari F**
20054192, Page 7
- Harcombe H**
20054192, Page 7
- Hard DL**
20054006, Page 16
- Harper M**
20053634, Page 21
20053996, Page 23
20053997, Page 23
- Harper S**
20053777, Page 29
- Harpriya K**
20056818, Page 59
- Harris C**
20058268, Page 67
- Harris JR**
20055921, Page 4
- Harris ML**
20055580, Page 67
20055990, Page 32
20056258, Page 3
20057399, Page 16
20057546, Page 71
20057669, Page 28
- Harris-Adamson C**
20056857, Page 43
- Harrison R**
20057308, Page 31
- Harrist A**
20056211, Page 7
- Harteis SP**
20055362, Page 32
20055593, Page 13
20056741, Page 13
20058598, Page 79
- Hartley D**
20054940, Page 31
20057172, Page 16

- Hartley TA**
20052931, Page 24
20054474, Page 18
20056411, Page 25
20056685, Page 1
20058167, Page 1
- Harvey RR**
20055133, Page 94
20055322, Page 97
20055840, Page 97
20057074, Page 96
20057994, Page 17
- Hashmi SD**
20055821, Page 30
- Hatcher S**
20055267, Page 97
20058053, Page 98
- Hathaway QA**
20054699, Page 16
- Havers FP**
20053777, Page 29
- Hawkins MD**
20054785, Page 18
- Hawley Blackley B**
20057994, Page 17
- Hawley B**
20053232, Page 16
20053610, Page 23
- Hayashi Y**
20055102, Page 17
20055389, Page 17
20056890, Page 12
- Hayden M**
20058053, Page 98
20058251, Page 67
20058254, Page 69
20058255, Page 63
- He X**
20054291, Page 23
20054977, Page 85
20055823, Page 44
20057022, Page 40
- He Z**
20055166, Page 80
20055943, Page 45
- Headley T**
20055225, Page 53
20055714, Page 58
- Hearl FJ**
20055469, Page 34
- Heberger JR**
20055455, Page 17
- Hecker S**
20056826, Page 45
- Hegmann KT**
20055958, Page 12
20056857, Page 43
- Heinzerling A**
20057308, Page 31
- Heitkemper DT**
20058606, Page 5
- Helfrich W**
20056338, Page 70
- Helfrich WJ**
20054470, Page 4
20055610, Page 64
20056016, Page 77
20057562, Page 64
- Helton J**
20054472, Page 4
20055607, Page 65
20057544, Page 65
20057901, Page 38
20058594, Page 77
- Hemminki K**
20057390, Page 46
- Hendricks S**
20054940, Page 31
20056744, Page 39
- Henn SA**
20057793, Page 17
- Henneberger P**
20056525, Page 56
- Henneberger PK**
20053420, Page 6
20054261, Page 25
20055532, Page 37
20055748, Page 31
20056141, Page 40
20057175, Page 21
20057572, Page 17
20057604, Page 10
- Herbers R**
20053675, Page 17
- Herbert G**
20055017, Page 85
- Hernandez M**
20054148, Page 39
- Herr D**
20055166, Page 80
- Hertel JK**
20057175, Page 21
- Hertz-Picciotto I**
20056321, Page 25
- Herz RS**
20055685, Page 20
- Hesse E**
20056258, Page 3
- Hettick JM**
20054083, Page 24
- Heutelbeck AR**
20055563, Page 3
- Hickman C**
20056282, Page 39
- Hickson L**
20056210, Page 12
- Hildebrandt R**
20055580, Page 67
- Hill C**
20055350, Page 20
20056282, Page 39
- Hill R**
20056067, Page 55
- Hinckley Stukovsky K**
20058109, Page 1
- Hindman B**
20055196, Page 17
- Hines CJ**
20053704, Page 9
20053744, Page 17
- Hirst D**
20056527, Page 56
- Hittle B**
20058409, Page 66
- Hocevar Adkins S**
20057840, Page 19
- Hodson L**
20053675, Page 17
20054395, Page 52
20056812, Page 56
- Hoebbel C**
20057250, Page 15
- Hoebbel CL**
20056018, Page 67
- Hoeneveld D**
20056747, Page 43
- Hoffman HJ**
20053320, Page 18
- Hogan T**
20056978, Page 43
- Holder C**
20058606, Page 5
- Holen BM**
20055113, Page 52
- Holla OL**
20057175, Page 21
- Hollander JM**
20054699, Page 16
- Hollerich C**
20057677, Page 73
- Hollerich CA**
20058593, Page 84
20056092, Page 32
- Holman DM**
20054845, Page 30
- Holmes Gobel B**
20057352, Page 6
- Holodniy M**
20057798, Page 24
- Holsinger C**
20058045, Page 34
- Holst MM**
20054474, Page 18
- Holton K**
20057099, Page 32
- Homce GT**
20055461, Page 42
20055363, Page 24
- Hong YC**
20056823, Page 18
- Hoover RN**
20056823, Page 18
- Hoppin JA**
20053704, Page 9
20055748, Page 31
- Hoque S**
20058640, Page 78
- Horenziak S**
20055685, Page 20
- Horn GP**
20054639, Page 25
20055247, Page 13
20055284, Page 13
20055381, Page 18
20055941, Page 21
20056247, Page 11
20056341, Page 11
20056484, Page 11
20058403, Page 35
- Hornback D**
20057053, Page 58
- 20055579, Page 53
20058099, Page 80
- Hornsby-Myers J**
20055225, Page 53
20055714, Page 58
20057473, Page 98
- Hornsby-Myers JL**
20055680, Page 7
- Hosokawa Y**
20054785, Page 18
- Houry D**
20057099, Page 32
- Houseman EA**
20056141, Page 40
- Howard J**
20051423, Page 10
20055680, Page 7
20055929, Page 54
20056835, Page 46
20056836, Page 45
20056838, Page 46
20057116, Page 45
- Howard VJ**
20050488, Page 12
20056483, Page 11
20058107, Page 12
- Howards PP**
20054194, Page 20
20055467, Page 20
20056340, Page 18
- Hrica J**
20055447, Page 10
20056336, Page 66
20056339, Page 64
- Hsiao H**
20056820, Page 59
20058562, Page 80
- Hu YH**
20052447, Page 14
20055843, Page 41
20058251, Page 67
- Hubbs AF**
20055011, Page 79
20057773, Page 18
- Hubczak J**
20055011, Page 79
20055013, Page 80
- Hudson H**
20054539, Page 38
- Hudson HL**
20056835, Page 46
20056836, Page 45
20056842, Page 45
- Hudson NL**
20053794, Page 36
20054228, Page 52
20054229, Page 52
20054230, Page 52
20054231, Page 52
20054232, Page 52
- Huggins RA**
20054785, Page 18
- Hughes G**
20058254, Page 69
20058255, Page 63
- Hughes MM**
20057600, Page 26
- Hull M**
20055350, Page 20

- Humann M**
20055532, Page 37
- Humann MJ**
20053420, Page 6
- Hummer JA**
20057818, Page 6
20056024, Page 65
- Hurst BJ**
20055854, Page 36
- Husberg B**
20057693, Page 62
- Hustrulid W**
20056750, Page 54
- Iannacchione A**
20057206, Page 67
- IARC Monographs
Priorities Group**
20056823, Page 18
- Iavicoli I**
20054475, Page 32
20057298, Page 19
- Iker K**
20058413, Page 72
- Imam SZ**
20055166, Page 80
20055943, Page 45
- Innes K**
20055654, Page 19
- Irvin-Barnwell EA**
20057782, Page 19
- Isakari M**
20057574, Page 41
- Isakari MT**
20054926, Page 5
- Iverson S**
20056112, Page 67
20056750, Page 54
20057554, Page 68
- Iverson SA**
20054407, Page 14
- Jacklitch B**
20056564, Page 57
- Jacklitsch B**
20054785, Page 18
20057316, Page 51
20058568, Page 80
- Jacklitsch BL**
20056825, Page 19
- Jacksha R**
20055456, Page 19
20055980, Page 28
20056088, Page 25
20057389, Page 19
20057553, Page 70
20058604, Page 82
- Jacksha RD**
20055463, Page 30
- Jackson BR**
20056003, Page 7
- Jackson D**
20057798, Page 24
- Jackson DA**
20055644, Page 96
20055649, Page 96
20056211, Page 7
- Jackson M**
20057773, Page 18
- Jackson MC**
20054890, Page 85
- Jackson S**
20055076, Page 79
- Jackson SR**
20056639, Page 8
20056908, Page 94
20057397, Page 11
- Jacobs A**
20053794, Page 36
- Jacobson MH**
20056340, Page 18
- Jacques PA**
20056258, Page 3
- Jaderson M**
20054313, Page 19
- Jaderson MA**
20058216, Page 23
- Jadhav S**
20053239, Page 36
- Jaeger M**
20056733, Page 12
- James L**
20058412, Page 63
- James S**
20058412, Page 63
- Jang Y**
20057830, Page 7
- Jaques PA**
20052073, Page 29
- Jardine JF**
20054785, Page 18
- Jatlaoui TC**
20057454, Page 34
20057830, Page 7
20057840, Page 19
- Jayatilaka N**
20055955, Page 10
- Jeebhay M**
20057270, Page 5
- Jefferson AM**
20054889, Page 84
- Jenkins E**
20057355, Page 14
- Jenkins EN**
20055654, Page 19
- Jensen AA**
20057390, Page 46
- Jensen J**
20054981, Page 85
- Jessu KV**
20055462, Page 20
- Jiang B-H**
20056978, Page 43
- Jiao S**
20056978, Page 43
- Jobs CC**
20056105, Page 23
- Johnson AR**
20053918, Page 36
20055890, Page 36
20056110, Page 36
- Johnson CY**
20054177, Page 22
20054194, Page 20
20055467, Page 20
- 20055976, Page 34
20056263, Page 27
- Johnson MB**
20055685, Page 20
- Jones BC**
20054979, Page 80
- Jones CM**
20057454, Page 34
20057600, Page 26
20057796, Page 5
20057830, Page 7
20057840, Page 19
20058606, Page 5
- Jones EM**
20056466, Page 24
- Jones H**
20054785, Page 18
- Jones HG**
20058015, Page 9
- Jones KD**
20057308, Page 31
- Jones M**
20055563, Page 3
20058259, Page 66
- Jones RR**
20053704, Page 9
- Jones-Lopez E**
20057853, Page 11
- Jorgensen NW**
20058109, Page 1
- Joseph P**
20054452, Page 34
20055014, Page 81
20056285, Page 39
- Joy GJ**
20055248, Page 30
- Ju J**
20054463, Page 2
- Jung C**
20053996, Page 23
20053997, Page 23
- Kabange L**
20058128, Page 2
- Kabbani S**
20057830, Page 7
20057840, Page 19
- Kadir MM**
20054192, Page 7
- Kagan VE**
20053239, Page 36
20055977, Page 39
- Kahn SA**
20052274, Page 20
- Kahveci Z**
20055597, Page 20
- Kallman M**
20055166, Page 80
- Kan H**
20054963, Page 81
- Kang S**
20055032, Page 20
20057363, Page 87
- Kanno J**
20056823, Page 18
- Kapellusch J**
20056857, Page 43
20058268, Page 67
- Kapellusch JM**
20055958, Page 12
- Kapralov AA**
20055977, Page 39
- Kardous CA**
20054867, Page 37
20055690, Page 38
20057791, Page 6
- Karwowski MP**
20057796, Page 5
20058606, Page 5
- Kashon M**
20053878, Page 32
20054851, Page 2
20054947, Page 85
20054953, Page 77
20054963, Page 81
20054965, Page 81
20057397, Page 11
20057773, Page 18
20057885, Page 31
- Kashon ML**
20053996, Page 23
20053997, Page 23
20054291, Page 23
20054473, Page 33
20054550, Page 27
20055238, Page 11
20057535, Page 34
- Kassem A**
20056282, Page 39
- Kassem AM**
20055324, Page 20
- Kaur H**
20056828, Page 81
20056829, Page 81
20056831, Page 46
- Kavazis AN**
20057641, Page 31
- Kazman JB**
20054785, Page 18
- Keane M**
20054947, Page 85
- Keane MJ**
20057535, Page 34
- Keller BM**
20055891, Page 10
- Kellner S**
20058045, Page 34
- Kellum JA**
20055977, Page 39
- Kelly K**
20054910, Page 81
20055169, Page 83
- Kelly KA**
20053525, Page 26
20054891, Page 82
20056660, Page 26
20056864, Page 3
- Kelly KM**
20054463, Page 2
- Kelly-Reif K**
20057014, Page 68
- Kelsall HL**
20054192, Page 7
- Kenemer B**
20057600, Page 26
- Kennedy A**
20055350, Page 20

- Kenny GP**
20055920, Page 33
- Kent MS**
20057159, Page 40
- Kerber S**
20054639, Page 25
20055381, Page 18
20055941, Page 21
20056247, Page 11
20056341, Page 11
20056484, Page 11
20058403, Page 35
- Kershaw KN**
20056483, Page 11
- Kesler RM**
20055381, Page 18
20058403, Page 35
- Kesner JS**
20056340, Page 18
- Khaliullin T**
20054998, Page 84
- Khaliullin TO**
20053634, Page 21
20055012, Page 81
- Khan A**
20056210, Page 12
- Khan AR**
20055854, Page 36
- Kiernan EA**
20057099, Page 32
20057454, Page 34
20057840, Page 19
- Kilinc-Balci S**
20055597, Page 20
- Kim B**
20054867, Page 37
20057367, Page 63
20058382, Page 65
20058416, Page 66
20058417, Page 63
- Kim BH**
20054014, Page 21
20057680, Page 68
20057683, Page 69
- Kim BY**
20057385, Page 69
- Kim J**
20053996, Page 23
20053997, Page 23
- Kim J-H**
20055822, Page 13
20055920, Page 33
20056670, Page 21
20056983, Page 13
- Kimball A**
20057454, Page 34
20057600, Page 26
- Kincl LD**
20054532, Page 38
20056578, Page 38
- King BA**
20054721, Page 38
20057099, Page 32
20057454, Page 34
20057600, Page 26
20057796, Page 5
20057830, Page 7
20057840, Page 19
20058606, Page 5
- King KA**
20056825, Page 19
- Kingston R**
20055685, Page 20
- Kiratipaiboon C**
20054977, Page 85
20056637, Page 21
- Kisin E**
20054998, Page 84
20054994, Page 81
- Kisin ER**
20053634, Page 21
20055012, Page 81
20055977, Page 39
- Kitenge R**
20058128, Page 2
- Kitt M**
20056935, Page 59
- Klein R**
20054407, Page 14
- Kleinstreuer N**
20053794, Page 36
- Klemetti T**
20054056, Page 10
20057555, Page 73
20057678, Page 73
- Klemetti TM**
20057563, Page 64
20057682, Page 68
- Klepaker G**
20057175, Page 21
- Klima S**
20055165, Page 30
20055248, Page 30
20055360, Page 30
20057962, Page 30
- Klima SS**
20055450, Page 27
20055608, Page 68
- Klimas NG**
20053525, Page 26
- Kline K**
20056137, Page 92
- Knepp A**
20054872, Page 82
20055076, Page 79
- Knepp AK**
20053918, Page 36
20055890, Page 36
20056110, Page 36
20056574, Page 25
20057397, Page 11
20058223, Page 42
- Kobayashi M**
20058045, Page 34
- Kocher L**
20055582, Page 41
20056221, Page 29
- Kodali V**
20054452, Page 34
20054851, Page 2
20054913, Page 84
20054919, Page 79
20054953, Page 77
20054965, Page 81
20055013, Page 80
20055039, Page 84
20055073, Page 78
20057885, Page 31
- Kodali VK**
20055011, Page 79
20056576, Page 42
- Kogevinas M**
20056823, Page 18
20057390, Page 46
- Kolstad H**
20057390, Page 46
- Komatsu K**
20056282, Page 39
- Kombe J**
20058128, Page 2
- Konak T**
20055943, Page 45
- Konda S**
20056191, Page 26
20055496, Page 39
- Kongerud J**
20057175, Page 21
- Kontoyiannis DP**
20056003, Page 7
- Koonin LM**
20055469, Page 34
- Koppaka R**
20057454, Page 34
20057840, Page 19
- Korenjak M**
20056823, Page 18
- Kornberg T**
20054977, Page 85
20054978, Page 78
20055003, Page 81
- Kornberg TG**
20057888, Page 21
- Kornegay L**
20058045, Page 34
- Korotzer B**
20057308, Page 31
- Kosmoski C**
20056221, Page 29
- Kostecki TR**
20055462, Page 20
- Koumans EH**
20057454, Page 34
20057600, Page 26
20057840, Page 19
- Kozlov AV**
20053239, Page 36
- Kracalik I**
20057798, Page 24
- Krajnak K**
20054175, Page 28
20054564, Page 21
20056891, Page 21
- Kreig E**
20055942, Page 31
- Kreiss K**
20055748, Page 31
20056995, Page 8
20057159, Page 40
20057773, Page 18
- Kretschmer M**
20054407, Page 14
- Kriebel D**
20057390, Page 46
- Krieg E**
20051934, Page 35
- Krieg EF**
20057791, Page 6
- Krieg EF Jr**
20053482, Page 22
- Krishnasamy V**
20058606, Page 5
- Krishnasamy VP**
20057099, Page 32
- Krosche AE**
20057229, Page 29
- Krueger GP**
20058413, Page 72
- Krysko DV**
20055977, Page 39
- Krysko O**
20055977, Page 39
- Ku BK**
20053612, Page 22
20056285, Page 39
20057143, Page 22
- Kubo T**
20054668, Page 13
- Kuchta M**
20056112, Page 67
20056750, Page 54
20057554, Page 68
- Kuhar DT**
20054926, Page 5
20055854, Page 36
- Kuklenyik Z**
20057796, Page 5
20058606, Page 5
- Kulkarni P**
20057540, Page 43
- Kumagai J**
20058412, Page 63
- Kunkes A**
20058045, Page 34
- Kunovac A**
20054699, Page 16
- Kurth L**
20053921, Page 22
20054787, Page 9
20055621, Page 9
20057784, Page 22
- Kusovschi JD**
20058606, Page 5
- Kwon J**
20054981, Page 85
- L'Orange C**
20054291, Page 23
- La Guardia MJ**
20054224, Page 3
20054639, Page 25
20055955, Page 10
- Lachenmeier DW**
20056823, Page 18
- Ladd TB**
20054962, Page 82
- LaFerla Jenni M**
20054407, Page 14
- Lamb J**
20053996, Page 23
20053997, Page 23
- Lamp M**
20056828, Page 81

- Lampl MP**
20056355, Page 26
- Landis C**
20058404, Page 6
- Landis CA**
20057352, Page 6
20057982, Page 78
- Landrigan C**
20058409, Page 66
- Landsbergis P**
20058109, Page 1
- Laney AS**
20054788, Page 43
20055621, Page 9
20055622, Page 15
20055903, Page 16
20057239, Page 15
20057704, Page 16
- Lantz SM**
20055166, Page 80
- Larson MK**
20054014, Page 21
20057680, Page 68
- LaSee CR**
20057308, Page 31
- Lasfargues G**
20056823, Page 18
- Lasley S**
20054910, Page 81
- Lasley SM**
20053525, Page 26
- LaVela SL**
20054379, Page 29
- Law BF**
20054083, Page 24
20057084, Page 34
- Law C**
20055166, Page 80
- Lawrence RB**
20055921, Page 4
- Lawson CC**
20054177, Page 22
20055467, Page 20
20055976, Page 34
20056263, Page 27
- Lawson SM**
20056638, Page 22
- Layden J**
20057099, Page 32
20058606, Page 5
- Layer M**
20057454, Page 34
20057840, Page 19
- Le Moul N**
20057604, Page 10
- Le Prell CG**
20058070, Page 22
20058017, Page 22
- LeBouf RF**
20052810, Page 23
20053420, Page 6
20053610, Page 23
20053918, Page 36
20054226, Page 96
20055321, Page 96
20055532, Page 37
20055890, Page 36
20056110, Page 36
20056141, Page 40
- 20056995, Page 8
20058223, Page 42
- Lechlitter J**
20055579, Page 53
- Lee CT**
20053777, Page 29
- Lee EG**
20053996, Page 23
20053997, Page 23
20054291, Page 23
20054981, Page 85
20055960, Page 32
- Lee ML**
20054379, Page 29
- Lee R**
20057773, Page 18
- Lee T**
20053634, Page 21
20055525, Page 35
20056258, Page 3
- Legha JK**
20057840, Page 19
- Lehmann DM**
20053794, Page 36
- Lehnert JD**
20057454, Page 34
- Lei Z**
20058136, Page 74
20058374, Page 42
- Leining LM**
20056003, Page 7
- Lekiachvili A**
20057600, Page 26
- Lemons AR**
20054397, Page 7
20056639, Page 8
20056907, Page 95
20056908, Page 94
20057785, Page 8
20058216, Page 23
- Lentz TJ**
20053744, Page 17
20056369, Page 54
20057171, Page 33
20057184, Page 33
20057259, Page 61
- Leonard C**
20052274, Page 20
- Leonard H**
20054947, Page 85
- Leonard S**
20054915, Page 83
20054944, Page 82
20055001, Page 79
20055035, Page 85
20055039, Page 84
- Lerman SE**
20058411, Page 71
- Lerro CC**
20053704, Page 9
- Leso V**
20054475, Page 32
20057298, Page 19
- Leung J**
20056282, Page 39
- Levin JL**
20058398, Page 68
- Levine MZ**
20053777, Page 29
- Levy C**
20054407, Page 14
- Lewinsohn DM**
20055854, Page 36
- Li J**
20055364, Page 27
20055443, Page 23
20055788, Page 2
20056093, Page 44
20056094, Page 23
20056105, Page 23
20056479, Page 37
20057556, Page 68
20057793, Page 17
20058572, Page 86
20058597, Page 82
- Li JF**
20055027, Page 95
20055129, Page 93
20055787, Page 97
20057628, Page 98
20057777, Page 98
- Li M**
20054846, Page 24
20055442, Page 44
- Li ZN**
20053777, Page 29
- Liachenko S**
20055166, Page 80
20055943, Page 45
- Liang H**
20055032, Page 20
- Liang X**
20053420, Page 6
20055532, Page 37
20056141, Page 40
20056978, Page 43
- Lin C-C**
20054083, Page 24
- Lin GX**
20054889, Page 84
- Lin J-H**
20052447, Page 14
- Lincoln J**
20055410, Page 53
20055809, Page 53
20057837, Page 53
- Lincoln JE**
20056528, Page 58
20058413, Page 72
- Lincoln JM**
20057260, Page 61
20058398, Page 68
- Lindsay WG**
20057709, Page 24
20057853, Page 11
20057959, Page 8
- Linkov I**
20055350, Page 20
- Linthicum W**
20057022, Page 40
- Liu F**
20053777, Page 29
- Livar E**
20056282, Page 39
- Lobato MN**
20055854, Page 36
- Locker AR**
20053525, Page 26
- 20056660, Page 26
- Loflin ME**
20054006, Page 16
20056791, Page 92
20057058, Page 92
- London J**
20057454, Page 34
- London SJ**
20055748, Page 31
- Long CM**
20055068, Page 33
- Lopata AL**
20057270, Page 5
- Los JG**
20057229, Page 29
- Losonczy KG**
20053320, Page 18
- Lowe B**
20057456, Page 62
20058053, Page 98
- Lowe BD**
20055332, Page 24
20056466, Page 24
- Lowry D**
20057535, Page 34
- Lu J**
20055955, Page 10
20057686, Page 74
20057816, Page 43
- Lu L**
20054979, Page 80
- Lu M-L**
20052447, Page 14
20055843, Page 41
20055958, Page 12
20056034, Page 24
20056733, Page 12
20057258, Page 61
20058251, Page 67
20058254, Page 69
20058255, Page 63
20058256, Page 73
20058259, Page 66
20058261, Page 69
- Lubin JH**
20053704, Page 9
- Lubula L**
20058128, Page 2
- Lucas DL**
20054532, Page 38
- Lucas S**
20055017, Page 85
- Lucas TJ**
20057798, Page 24
- Luckhaupt S**
20057054, Page 59
- Luckhaupt SE**
20054664, Page 8
20054933, Page 37
20055316, Page 37
20055770, Page 39
20055788, Page 2
20056034, Page 24
20056389, Page 14
20056479, Page 37
- Ludena-Rodriguez YJ**
20056321, Page 25
- Lukomska E**
20054473, Page 33

- 20055074, Page 77
- Lung Injury Response Epidemiology/ Surveillance Task Force**
20057830, Page 7
- Lung Injury Response Epidemiology/ Surveillance Group**
20057454, Page 34
20057600, Page 26
20057830, Page 7
- Lung Injury Response Clinical Task Force**
20057830, Page 7
- Lung Injury Response Clinical Working Group**
20057454, Page 34
20057840, Page 19
- Lung Injury Response Laboratory Working Group**
20058606, Page 5
- Lunsford NB**
20054845, Page 30
- Lupoi JS**
20057535, Page 34
- Lutz TJ**
20055461, Page 42
20055363, Page 24
- Lux H**
20055563, Page 3
- Luxton T**
20058223, Page 42
- Luxton TP**
20055890, Page 36
- Ma CC**
20052931, Page 24
20056321, Page 25
20057355, Page 14
- Ma Q**
20055196, Page 17
20057426, Page 9
20057611, Page 9
- Macdonald B**
20054470, Page 4
20056016, Page 77
20056338, Page 70
20057562, Page 64
- Macdonald BD**
20052163, Page 32
20057402, Page 25
- MacDonald LA**
20050488, Page 12
20056483, Page 11
20058107, Page 12
- MacKenzie BA**
20050350, Page 25
- MacMillan D**
20055166, Page 80
- Madconald B**
20055610, Page 64
- Maestrelli P**
20055563, Page 3
- Maibach H**
20055331, Page 16
- Maier A**
20057171, Page 33
20057184, Page 33
- Makengo J**
20058128, Page 2
- Malekzadeh R**
20056823, Page 18
- Malilay J**
20057782, Page 19
- Mallampalli RK**
20055977, Page 39
- Man K**
20057022, Page 40
- Manatunga AK**
20056340, Page 18
- Mandler W**
20054872, Page 82
20055076, Page 79
- Mandler WK**
20055525, Page 35
20056574, Page 25
20057397, Page 11
- Maniglier-Poulet C**
20057782, Page 19
- Manlutac AL**
20057574, Page 41
- Marcus M**
20056340, Page 18
- Markle T**
20055903, Page 16
20057704, Page 16
- Marlow D**
20057374, Page 87
- Marques MM**
20056823, Page 18
- Marras WS**
20055958, Page 12
20058256, Page 73
20058261, Page 69
- Marsh S**
20057254, Page 60
- Marsh SM**
20054006, Page 16
- Marshall N**
20055074, Page 77
- Martell MJ**
20052163, Page 32
20054422, Page 69
20057402, Page 25
20058410, Page 69
- Martin LA**
20056206, Page 33
- Martin M**
20055528, Page 54
20056525, Page 56
- Martin SB Jr**
20053918, Page 36
20055133, Page 94
20055134, Page 94
20055890, Page 36
20056110, Page 36
20056527, Page 56
20057709, Page 24
20057747, Page 94
20058223, Page 42
- Marynak KL**
20057099, Page 32
- Maskrey JR**
20057401, Page 4
- Masten S**
20056823, Page 18
- Masterson E**
20056296, Page 57
- Masterson EA**
20056638, Page 22
20058007, Page 38
20058386, Page 70
20058419, Page 70
- Mastovich J**
20057535, Page 34
- Masuda YJ**
20057440, Page 36
- Materna BL**
20054664, Page 8
20057308, Page 31
- Matetic RJ**
20055364, Page 27
20056296, Page 57
20057257, Page 61
- Matheson J**
20053794, Page 36
20055076, Page 79
20057397, Page 11
- Mathew TA**
20055854, Page 36
- Mathias PI**
20050350, Page 25
- Matsudaira K**
20054192, Page 7
- Matthews T**
20057563, Page 64
- Mayer A**
20056247, Page 11
- Mayer AC**
20054639, Page 25
20055955, Page 10
- Mayton AG**
20054257, Page 25
20057385, Page 69
20058267, Page 70
- Mazurek GH**
20055854, Page 36
- Mazurek J**
20057784, Page 22
- Mazurek JM**
20054261, Page 25
20054384, Page 6
20054721, Page 38
20054943, Page 1
20055327, Page 38
20055613, Page 9
20056658, Page 9
- Mbala P**
20058128, Page 2
- Mbareche H**
20057959, Page 8
- Mbuyi G**
20058128, Page 2
- McBride CR**
20054789, Page 1
20055104, Page 5
- McCabe K**
20054148, Page 39
- McCague AB**
20054933, Page 37
- McCanlies E**
20051615, Page 40
20058167, Page 1
- McCanlies EC**
20056321, Page 25
20056411, Page 25
- McCarthy RB**
20057308, Page 31
- McCarty J**
20056003, Page 7
- McCawley M**
20057535, Page 34
- McCleery R**
20056816, Page 58
- McCleery T**
20056527, Page 56
- McClelland T**
20055134, Page 94
- McClelland TL**
20057709, Page 24
- McClure LA**
20050488, Page 12
- McCollum AM**
20057574, Page 41
- McCormack V**
20056823, Page 18
- McDonald EC**
20057574, Page 41
- McDowell T**
20057258, Page 61
20057456, Page 62
- McDowell TW**
20054680, Page 42
20055365, Page 93
- McElhinney P**
20057556, Page 68
- McGovern OL**
20058045, Page 34
- McGowan B**
20058261, Page 69
- McKernan L**
20053744, Page 17
- McKernan LT**
20056369, Page 54
20057171, Page 33
20057184, Page 33
- McKinney W**
20053878, Page 32
20054889, Page 84
20054947, Page 85
20054963, Page 81
20055014, Page 81
20058216, Page 23
- McKinney WG**
20054890, Page 85
20055525, Page 35
- McNary J**
20054664, Page 8
- McNinch M**
20054472, Page 4
20055607, Page 65
20055980, Page 28
20055996, Page 71
20056088, Page 25
20057544, Page 65
20057552, Page 71
20057553, Page 70
20058594, Page 77

- 20058604, Page 82
- McWilliams L**
20057054, Page 59
- Mead K**
20057628, Page 98
- Mead KR**
20057709, Page 24
- Meade BJ**
20054540, Page 12
- Meadows J**
20056295, Page 55
- Meadows JJ**
20058158, Page 28
- Meadows JW**
20056340, Page 18
- Meaney-Delman D**
20057454, Page 34
- Meaney-Delman D**
20057099, Page 32
20057600, Page 26
20058606, Page 5
- Mechling J**
20054867, Page 37
- Meighan T**
20054452, Page 34
20054913, Page 84
20054953, Page 77
20054965, Page 81
20055073, Page 78
- Meighan TG**
20054851, Page 2
- Meiman JG**
20057099, Page 32
- Melstrom PC**
20057099, Page 32
- Menchaca KW**
20056110, Page 36
- Mendez DD**
20058214, Page 29
- Mendez-Luck CA**
20056578, Page 38
- Menendez CC**
20057443, Page 61
20057862, Page 62
20058413, Page 72
- Mentese S**
20055247, Page 13
20055284, Page 13
- Menéndez C**
20056191, Page 26
- Mercader S**
20056282, Page 39
- Mercer R**
20054947, Page 85
20054872, Page 82
- Mercer RR**
20055011, Page 79
20055525, Page 35
20056574, Page 25
20057535, Page 34
- Merianos AL**
20056825, Page 19
- Merinar TR**
20054006, Page 16
20056089, Page 92
20056137, Page 92
- Merisalu E**
20054192, Page 7
- Merk G**
20057362, Page 87
- Merryweather A**
20055958, Page 12
- Methner MM**
20055150, Page 96
20056099, Page 97
- Meyers A**
20056295, Page 55
20056817, Page 59
20056828, Page 81
- Meyers AR**
20056355, Page 26
20056857, Page 43
20058261, Page 69
20058268, Page 67
- Miara C**
20058033, Page 47
20058034, Page 48
20058035, Page 47
20058036, Page 47
20058037, Page 48
20058038, Page 51
20058040, Page 48
20058041, Page 51
20058043, Page 48
20058046, Page 48
20058076, Page 49
20058077, Page 49
20058078, Page 49
20058079, Page 49
20058080, Page 49
20058081, Page 50
20058083, Page 50
20058084, Page 50
20058085, Page 50
20058086, Page 50
20058087, Page 51
20058088, Page 51
20058090, Page 51
- Michael YL**
20054196, Page 40
- Michalovicz L**
20054910, Page 81
20055169, Page 83
- Michalovicz LT**
20053525, Page 26
20054891, Page 82
20055940, Page 46
20056864, Page 3
- Michhalovicz LT**
20056660, Page 26
- Miedinger D**
20056057, Page 4
- Mikosz CA**
20057099, Page 32
- Miles S**
20057113, Page 60
20057730, Page 91
- Miles ST**
20054006, Page 16
- Millen AE**
20057355, Page 14
- Miller A**
20055980, Page 28
20056088, Page 25
20058604, Page 82
- Miller AL**
20055996, Page 71
- 20056011, Page 28
20057365, Page 83
20057552, Page 71
- Miller D**
20054910, Page 81
- Miller DB**
20053525, Page 26
20054891, Page 82
20054979, Page 80
20055166, Page 80
20055943, Page 45
20056660, Page 26
20056685, Page 1
20056862, Page 27
- Miller J**
20055169, Page 83
- Miller JV**
20053525, Page 26
20056660, Page 26
- Miller T**
20056023, Page 35
20057206, Page 67
- Miller W**
20054919, Page 79
20056576, Page 42
- Milton D**
20057853, Page 11
- Min GJ**
20057683, Page 69
- Mines D**
20058259, Page 66
- Minikulu L**
20058128, Page 2
- Minoski T**
20054181, Page 37
20057677, Page 73
- Mischler S**
20056525, Page 56
- Mischler SE**
20054234, Page 26
20055361, Page 3
20056258, Page 3
20057210, Page 72
- Mitchell S**
20058559, Page 82
- Mitchko J**
20057454, Page 34
- Mnatsakanova A**
20052931, Page 24
20054474, Page 18
20056411, Page 25
20056685, Page 1
20057709, Page 24
20058010, Page 85
20058167, Page 1
- Mobley A**
20057054, Page 59
- Mody D**
20058214, Page 29
- Mohamed K**
20057204, Page 71
- Moller K**
20056067, Page 55
20058570, Page 82
- Montandon M**
20057840, Page 19
- Montero MC**
20054926, Page 5
- Montgomery B**
20056744, Page 39
- Moore L**
20056817, Page 59
- Moore M**
20055410, Page 53
20055809, Page 53
20056551, Page 89
20057425, Page 26
20057837, Page 53
- Moore PH**
20054006, Page 16
- Moore S**
20057254, Page 60
- Morata T**
20056295, Page 55
20057318, Page 58
- Morata TC**
20055690, Page 38
20055942, Page 31
20056210, Page 12
- Morel-Espinosa M**
20057796, Page 5
20058606, Page 5
- Moreno S**
20055349, Page 35
- Morgenthaler TI**
20055821, Page 30
- Moritz E**
20057454, Page 34
- Moritz ED**
20057600, Page 26
- Morley C**
20056978, Page 43
- Morris A**
20054944, Page 82
20054915, Page 83
- Morris M**
20053525, Page 26
20055854, Page 36
- Morrison CA**
20056355, Page 26
- Mossoko M**
20058128, Page 2
- Mostovenko E**
20055064, Page 82
20055167, Page 78
20056044, Page 27
- Moulia D**
20057454, Page 34
- Mráz J**
20057390, Page 46
- Mueller C**
20054224, Page 3
- Mukadi D**
20058128, Page 2
- Mulangu F**
20058128, Page 2
- Muldoon PP**
20056044, Page 27
- Mullington JM**
20055821, Page 30
- Mumaw CL**
20054962, Page 82
- Mumford PW**
20057641, Page 31

- Munoz X**
20055563, Page 3
- Murgia N**
20056057, Page 4
- Murphy J**
20058045, Page 34
- Murphy M**
20057203, Page 72
20057206, Page 67
- Murphy MM**
20056023, Page 35
20057695, Page 10
- Murphy W**
20056296, Page 57
- Murphy WJ**
20054278, Page 8
20054666, Page 12
20058006, Page 27
20058015, Page 9
20058017, Page 22
20058018, Page 40
20058070, Page 22
20058384, Page 69
20058386, Page 70
20058415, Page 70
20058419, Page 70
- Musgrave K**
20056211, Page 7
- Mustafa GM**
20054452, Page 34
- Mutombo A**
20058128, Page 2
- Mutter J**
20057782, Page 19
- Muyembe JJ**
20058128, Page 2
- Mwanzembe C**
20058128, Page 2
- Myers J**
20057054, Page 59
- Müller K**
20056823, Page 18
- Naidoo RN**
20056057, Page 4
- Naimo MA**
20054550, Page 27
- Nakata A**
20057501, Page 47
- Nasarwanji M**
20056221, Page 29
- Nasarwanji MF**
20056882, Page 27
20057385, Page 69
20058267, Page 70
- Nassan FL**
20054177, Page 22
20056263, Page 27
- Nassir R**
20054196, Page 40
- The National Birth Defects Prevention Study**
20055976, Page 34
- Navoyiski J**
20054470, Page 4
20055610, Page 64
20056016, Page 77
20056338, Page 70
- 20057562, Page 64
- Nayak AP**
20054397, Page 7
20057785, Page 8
- Nembhard MD**
20057401, Page 4
- Nemery B**
20055563, Page 3
- Nesnow S**
20057390, Page 46
- Nett JR**
20057747, Page 94
- Nett R**
20056298, Page 56
- Nett RJ**
20054178, Page 39
20054729, Page 93
20054827, Page 38
20055324, Page 20
20056899, Page 41
20056995, Page 8
20057074, Page 96
- Neu D**
20057628, Page 98
- Neu DT**
20057694, Page 6
20057709, Page 24
- Neu-Baker NM**
20054925, Page 27
- Newman C**
20058606, Page 5
- Newman MS**
20055012, Page 81
- Newton R**
20056823, Page 18
- Ng KW**
20058215, Page 15
- Ngai E**
20057184, Page 33
20057171, Page 33
- Niang M**
20054475, Page 32
- Nichols CE**
20054699, Page 16
- Nickels L**
20056935, Page 59
- Nickerson H**
20055980, Page 28
20057553, Page 70
- Nigam J**
20054539, Page 38
20058091, Page 83
20058549, Page 82
- Nigam JA S**
20056835, Page 46
20056836, Page 45
20056842, Page 45
- Nimbarte AD**
20055823, Page 44
- Ning S**
20057883, Page 6
- Ning X**
20056636, Page 5
- Njie GJ**
20055854, Page 36
- Noll J**
20055364, Page 27
- 20056093, Page 44
20057559, Page 70
20057769, Page 3
20058572, Page 86
- Norat T**
20056823, Page 18
- Norton AE**
20057694, Page 6
- Noti JD**
20055238, Page 11
20057709, Page 24
- Novak DA**
20054926, Page 5
- Novakovich J**
20056935, Page 59
- Novicki E**
20051423, Page 10
20055931, Page 55
20056063, Page 55
20056065, Page 55
20056066, Page 55
20056067, Page 55
- Nsio J**
20058128, Page 2
- Ntani G**
20054192, Page 7
- Nurkiewicz TR**
20054699, Page 16
20054789, Page 1
20055104, Page 5
20058223, Page 42
- Nyantumbu-Mkhize B**
20054192, Page 7
- Nylander-French L**
20055748, Page 31
20057014, Page 68
20057390, Page 46
- Nyquist AC**
20057229, Page 29
- O'Brien AD**
20055113, Page 52
- O'Callaghan J**
20054910, Page 81
20055169, Page 83
- O'Callaghan JP**
20053525, Page 26
20054891, Page 82
20054979, Page 80
20055166, Page 80
20055940, Page 46
20055943, Page 45
20056660, Page 26
20056862, Page 27
20056864, Page 3
- O'Connell R**
20057773, Page 18
- O'Connor MB**
20058413, Page 72
- O'Hegarty M**
20057840, Page 19
- O'Leary PK**
20056468, Page 2
- O'Sullivan MC**
20057840, Page 19
- Ochchipinti E**
20056733, Page 12
- Oda G**
20057798, Page 24
- Oh SW Cho SH**
20057683, Page 69
- Okun AH**
20055391, Page 14
20056074, Page 15
20058033, Page 47
20058034, Page 48
20058035, Page 47
20058036, Page 47
20058037, Page 48
20058038, Page 51
20058040, Page 48
20058041, Page 51
20058043, Page 48
20058046, Page 48
20058076, Page 49
20058077, Page 49
20058078, Page 49
20058079, Page 49
20058080, Page 49
20058081, Page 50
20058083, Page 50
20058084, Page 50
20058085, Page 50
20058086, Page 50
20058087, Page 51
20058088, Page 51
20058090, Page 51
- Olgun N**
20054915, Page 83
20054944, Page 82
- Oliver KD**
20055247, Page 13
20055284, Page 13
- Olsavsky R**
20056065, Page 55
20057072, Page 60
- Orandle M**
20054872, Page 82
20055014, Page 81
20055349, Page 35
- Orandle MS**
20055011, Page 79
20055525, Page 35
20056574, Page 25
20057608, Page 29
20057773, Page 18
20057785, Page 8
- Organiscak JA**
20055450, Page 27
20055454, Page 28
20055608, Page 68
- Orr TJ**
20054470, Page 4
20055610, Page 64
20056016, Page 77
20056338, Page 70
20057562, Page 64
- Ortega E**
20057574, Page 41
- Ortiz B**
20055891, Page 10
20056818, Page 59
20056828, Page 81
20056831, Page 46
20058565, Page 83
- Osburn SC**
20057641, Page 31
- Osimitz TG**
20055685, Page 20
- Ospina M**
20055955, Page 10

- Ostrosky-Zeichner L**
20056003, Page 7
- Ottens AK**
20055017, Page 85
20055064, Page 82
20055167, Page 78
20056044, Page 27
- Owens S**
20052931, Page 24
- Owens SL**
20051615, Page 40
- Pacurari M**
20054175, Page 28
- Page E**
20054224, Page 3
- Pagel S**
20057773, Page 18
- Pahler LF**
20056661, Page 5
- Pakalnis R**
20055604, Page 72
- Pal TM**
20057572, Page 17
- Palmer KT**
20054192, Page 7
- Pampena JD**
20058158, Page 28
- Pan CS**
20053453, Page 41
20057842, Page 73
20057845, Page 73
- Pana-Cryan R**
20057056, Page 60
20057201, Page 14
20057455, Page 2
- Pandalai SP**
20056840, Page 46
- Panko JM**
20057401, Page 4
- Panos J**
20055943, Page 45
- Pappas JJ**
20056823, Page 18
- Pardo ID**
20055166, Page 80
- Parent M-E**
20057390, Page 46
- Park J-H**
20054313, Page 19
20056003, Page 7
20056995, Page 8
20057747, Page 94
20058216, Page 23
- Park JY**
20053232, Page 16
20057994, Page 17
- Park RM**
20057541, Page 28
- Park SW**
20057683, Page 69
- Parker EM**
20057099, Page 32
- Parker JE**
20057704, Page 16
- Parks D**
20055980, Page 28
20056088, Page 25
- 20057553, Page 70
20058604, Page 82
- Parks DA**
20055996, Page 71
20056011, Page 28
20057365, Page 83
20057552, Page 71
- Parry HA**
20057641, Page 31
- Patel Murthy B**
20056003, Page 7
- Patel A**
20057454, Page 34
20057600, Page 26
20058606, Page 5
- Patel JR**
20057572, Page 17
- Patel K**
20057308, Page 31
- Patel M**
20056282, Page 39
- Patrician PA**
20057352, Page 6
20057982, Page 78
20058409, Page 66
- Patterson PD**
20058412, Page 63
- Patts J**
20055113, Page 52
- Patts JR**
20055446, Page 7
20055454, Page 28
20056651, Page 28
- Paule MG**
20055166, Page 80
20055943, Page 45
- Paulos L**
20055854, Page 36
- Peckham T**
20057435, Page 28
- Peloquin DM**
20055890, Page 36
20058223, Page 42
- Penatzer JA**
20055169, Page 83
- Pennington AF**
20056003, Page 7
- Perera IE**
20055990, Page 32
20057546, Page 71
20057669, Page 28
- Perkins KM**
20057798, Page 24
- Perl TM**
20057229, Page 29
- Petersen BW**
20057574, Page 41
- Petersen EE**
20057454, Page 34
20057600, Page 26
- Peterson DR**
20055332, Page 24
- Peterson S**
20058382, Page 65
20058416, Page 66
- Petsonk E**
20057704, Page 16
- Pfirman D**
20057053, Page 58
- Phillips DH**
20057390, Page 46
- Phillips K**
20055955, Page 10
- Philpott CC**
20053239, Page 36
- Piacci M**
20057298, Page 19
- Piacentino J**
20056935, Page 59
- Pickens CM**
20057099, Page 32
- Pickens V**
20056211, Page 7
- Pierson JB**
20055166, Page 80
- Pinti MV**
20054699, Page 16
- Pirela S**
20058215, Page 15
- Pirela SV**
20057608, Page 29
- Pirkle JL**
20057796, Page 5
20058606, Page 5
- Pleil JD**
20055247, Page 13
20055284, Page 13
20056341, Page 11
20056484, Page 11
- Poh TY**
20058215, Page 15
- Poirot E**
20053777, Page 29
- Poland M**
20054540, Page 12
- Polen KD**
20057600, Page 26
- Pollard J**
20056221, Page 29
20058267, Page 70
- Pollard JP**
20057385, Page 69
- Pollock DE**
20055450, Page 27
- Pompeii LA**
20054926, Page 5
- Pompey JM**
20053777, Page 29
- Popkin S**
20057091, Page 41
- Poplin G**
20054225, Page 42
- Popova EN**
20055977, Page 39
- Porter D**
20055039, Page 84
- Porter DW**
20053878, Page 32
20055349, Page 35
20055525, Page 35
20056388, Page 35
20057535, Page 34
- Porter WL**
20056221, Page 29
- Portnoff L**
20052073, Page 29
- Potocko J**
20057308, Page 31
- Potts JD**
20055442, Page 44
- Potvin J**
20058259, Page 66
- Powell J**
20055920, Page 33
- Powell KM**
20057099, Page 32
20057798, Page 24
- Powers A**
20056816, Page 58
- Powers J**
20058050, Page 62
- Pratt S**
20056065, Page 55
20057072, Page 60
20058560, Page 83
- Pratt SG**
20056113, Page 29
20056884, Page 40
20058411, Page 71
- Prawer S**
20055685, Page 20
- Prince N**
20055169, Page 83
- Pritchard CJ**
20055463, Page 30
- Protchenko O**
20053239, Page 36
- Protnoff L**
20054846, Page 24
- Qi C**
20054872, Page 82
20055032, Page 20
20055076, Page 79
20055525, Page 35
20056574, Page 25
20057360, Page 87
20057363, Page 87
20057397, Page 11
20058064, Page 87
- Qian Y**
20054872, Page 82
20055032, Page 20
20055076, Page 79
20055525, Page 35
20056148, Page 35
20056388, Page 35
20056574, Page 25
20057397, Page 11
20057608, Page 29
20058215, Page 15
- Quay B**
20057989, Page 78
- Quay BR**
20058009, Page 83
- Queiroz Moreira C**
20056823, Page 18
- Quinn T**
20055822, Page 13
20056670, Page 21
20056983, Page 13

- Quinn TD**
 20058214, Page 29
- Quinot C**
 20057604, Page 10
- Quintana LA**
 20054192, Page 7
- Rader EP**
 20054550, Page 27
- Radonovich L**
 20055469, Page 34
- Radonovich LJ**
 20054379, Page 29
 20054926, Page 5
- Radonovich LJ Jr**
 20057229, Page 29
- Radwin RG**
 20052447, Page 14
 20055843, Page 41
 20058251, Page 67
- Raese R**
 20056388, Page 35
- Raffaldi MJ**
 20056206, Page 33
 20056207, Page 30
- Ragan KR**
 20054845, Page 30
- Raghu G**
 20057308, Page 31
- Raheem M**
 20057782, Page 19
- Rahman MM**
 20056337, Page 71
- Raj KV**
 20055463, Page 30
 20055996, Page 71
 20056011, Page 28
 20057365, Page 83
 20057552, Page 71
- Rakeman JL**
 20053777, Page 29
- Ramsey J**
 20054790, Page 14
 20057258, Page 61
 20058053, Page 98
- Ramsey JG**
 20055191, Page 95
 20055365, Page 93
 20057279, Page 95
- Randolph R**
 20057257, Page 61
- Rane P**
 20053744, Page 17
 20056369, Page 54
- Rane PD**
 20057171, Page 33
 20057184, Page 33
- Ranpara A**
 20058223, Page 42
- Rao AK**
 20057574, Page 41
- Rasband RD**
 20058018, Page 40
- Rashed G**
 20057204, Page 71
 20057205, Page 72
- Raymick J**
 20055166, Page 80
- 20055943, Page 45
- Reagan-Steiner S**
 20057099, Page 32
 20057454, Page 34
 20057600, Page 26
 20057840, Page 19
- Reddish AD**
 20054178, Page 39
- Redeker NS**
 20055821, Page 30
 20057352, Page 6
 20057982, Page 78
 20058404, Page 6
 20058409, Page 66
- Redlich CA**
 20056057, Page 4
- Reeb-Whitaker CK**
 20057308, Page 31
- Reed WR**
 20055165, Page 30
 20055248, Page 30
 20055360, Page 30
 20055442, Page 44
 20055453, Page 33
 20056020, Page 72
 20056108, Page 44
 20056652, Page 30
 20057561, Page 72
 20057823, Page 33
 20057962, Page 30
 20058601, Page 86
- Reefhuis J**
 20055976, Page 34
- Rees J**
 20057796, Page 5
 20058606, Page 5
- Reese C**
 20058606, Page 5
- Reeves K**
 20055931, Page 55
 20056063, Page 55
 20056065, Page 55
 20056066, Page 55
 20056067, Page 55
 20056295, Page 55
 20056296, Page 57
 20056298, Page 56
 20056525, Page 56
 20056526, Page 56
 20056527, Page 56
 20056528, Page 58
 20056564, Page 57
 20056565, Page 57
 20056566, Page 57
 20056567, Page 57
 20056812, Page 56
 20056815, Page 57
 20056816, Page 58
 20056817, Page 59
 20056818, Page 59
 20056820, Page 59
 20057053, Page 58
 20057054, Page 59
 20057055, Page 60
 20057056, Page 60
 20057254, Page 60
 20057255, Page 60
 20057257, Page 61
 20057258, Page 61
 20057259, Page 61
 20057260, Page 61
 20057261, Page 61
 20057585, Page 56
 20057586, Page 58
 20057693, Page 62
- 20057824, Page 62
- Regan JW**
 20055941, Page 21
- Reich NG**
 20057229, Page 29
- Reichard A**
 20057054, Page 59
- Reid C**
 20057456, Page 62
- Reindel A**
 20054407, Page 14
- Reinhardt T**
 20057793, Page 17
- Reinke EN**
 20053794, Page 36
- Reis GB**
 20058606, Page 5
- Rempel D**
 20056857, Page 43
 20057456, Page 62
 20058259, Page 66
 20058268, Page 67
- Rempel DM**
 20058261, Page 69
- Rengasamy S**
 20055921, Page 4
- Retzer K**
 20056065, Page 55
 20057072, Page 60
- Retzer KD**
 20058411, Page 71
- Reul NK**
 20057308, Page 31
- Reutman S**
 20055214, Page 41
- Reves R**
 20055854, Page 36
- Reyes M**
 20055364, Page 27
 20055443, Page 23
 20057388, Page 74
- Reyes MA**
 20054632, Page 42
 20057560, Page 65
 20057961, Page 42
- Reynolds CJ**
 20056057, Page 4
- Reynolds L**
 20054407, Page 14
 20056099, Page 97
 20057474, Page 98
- Reynolds ME**
 20054785, Page 18
- Reynolds SH**
 20057535, Page 34
- Rich-Edwards JW**
 20054177, Page 22
 20055467, Page 20
 20056263, Page 27
- Richardson D**
 20057014, Page 68
- Richardson DB**
 20055748, Page 31
- Richardson J**
 20056207, Page 30
- Ridenour M**
 20056191, Page 26
- 20057172, Page 16
- Ridenour ML**
 20054940, Page 31
- Rider JP**
 20055442, Page 44
 20055454, Page 28
 20056108, Page 44
 20058601, Page 86
- Riedy SM**
 20057988, Page 83
- Riehle-Colarusso T**
 20055976, Page 34
- Rinehart R**
 20056566, Page 57
- Rinsky JL**
 20055748, Page 31
- Ritchey MD**
 20057600, Page 26
 20057830, Page 7
 20057840, Page 19
- Rivera Diaz J**
 20057782, Page 19
- Rivera Gonzalez L**
 20057782, Page 19
- Roach G**
 20054668, Page 13
- Roach K**
 20054913, Page 84
 20054953, Page 77
 20054965, Page 81
 20055035, Page 85
 20055039, Page 84
- Roach KA**
 20054452, Page 34
 20054851, Page 2
 20055010, Page 83
 20056352, Page 31
 20056891, Page 21
 20057885, Page 31
- Robb GM**
 20056024, Page 65
- Roberge R**
 20055920, Page 33
 20056670, Page 21
- Roberson PA**
 20057641, Page 31
- Roberts J**
 20054913, Page 84
 20054919, Page 79
 20054953, Page 77
 20054965, Page 81
 20055013, Page 80
 20055014, Page 81
 20055035, Page 85
 20055039, Page 84
 20055073, Page 78
- Roberts JR**
 20054452, Page 34
 20054851, Page 2
 20055010, Page 83
 20056352, Page 31
 20056576, Page 42
 20056891, Page 21
 20057885, Page 31
- Roberts MD**
 20057641, Page 31
- Roberts R**
 20055166, Page 80
- Robertson S**
 20051934, Page 35

- 20056341, Page 11
20056484, Page 11
- Robinson B**
20055166, Page 80
- Robinson JE**
20055113, Page 52
- Robinson S**
20055349, Page 35
20056282, Page 39
- Robison WA**
20058137, Page 62
- Rocheleau CM**
20054177, Page 22
20054194, Page 20
20055976, Page 34
- Rodriguez R**
20056065, Page 55
- Rodriguez-Acosta R**
20057072, Page 60
- Rodriguez-Barradas MC**
20057229, Page 29
- Rodriguez T**
20056823, Page 18
- Rodríguez-Guzmán J**
20056823, Page 18
- Rogers AE**
20058409, Page 66
- Roggia AM**
20055942, Page 31
- Roguski K**
20057830, Page 7
- Rohanasakul LW**
20057022, Page 40
- Rojanasakul L**
20054978, Page 78
20055003, Page 81
- Rojanasakul LW**
20056637, Page 21
20057888, Page 21
- Rojanasakul Y**
20054977, Page 85
20054978, Page 78
20055003, Page 81
20056637, Page 21
20057022, Page 40
20057888, Page 21
20057960, Page 37
- Rojas M**
20054192, Page 7
- Rojas-Guyler L**
20056074, Page 15
- Rojek J**
20056744, Page 39
- Romano N**
20055410, Page 53
20055809, Page 53
20056551, Page 89
20057837, Page 53
- Romero MA**
20057641, Page 31
- Rosa R**
20055788, Page 2
- Rosa RR**
20054668, Page 13
20057455, Page 2
- Rose C**
20057308, Page 31
- Rose D**
20058606, Page 5
- Rose DA**
20057830, Page 7
20057840, Page 19
- Ross G**
20055248, Page 30
20055453, Page 33
20056652, Page 30
20057962, Page 30
- Ross GJH**
20055165, Page 30
- Rota PA**
20056282, Page 39
- Rottach DR**
20055765, Page 43
20057083, Page 10
- Roussel C**
20050417, Page 31
- Rowland JH**
20056090, Page 3
20056109, Page 32
20056245, Page 75
20057558, Page 63
20058589, Page 84
20058600, Page 77
- Rowland JH III**
20055362, Page 32
- Rowland TW**
20058403, Page 35
- Rubinstein EN**
20052163, Page 32
20054234, Page 26
20056651, Page 28
- Russ KA**
20053878, Page 32
- Russell K**
20053777, Page 29
- Ryan ME**
20056018, Page 67
20057250, Page 15
- Rycroft T**
20055350, Page 20
- Sabo-Attwood T**
20055349, Page 35
- Sachdeva S**
20057171, Page 33
20057184, Page 33
- Sack C**
20057308, Page 31
- Sadeghian F**
20054192, Page 7
- Sadrieh N**
20053794, Page 36
- Safford MM**
20056483, Page 11
- Sager T**
20054964, Page 84
20055014, Page 81
- Said MA**
20056211, Page 7
- Salar-Barim M**
20058053, Page 98
- Saleh NB**
20055349, Page 35
- Salisbury JL**
20057535, Page 34
- Salkini MW**
20056978, Page 43
- Salmen R**
20054851, Page 2
20054947, Page 85
20054953, Page 77
- Salo PM**
20054943, Page 1
- Salvatore PP**
20057099, Page 32
- Sammarco JJ**
20052163, Page 32
20054422, Page 69
20057402, Page 25
20058410, Page 69
- Sammons D**
20051934, Page 35
20056341, Page 11
20056484, Page 11
- Sana E**
20058128, Page 2
- Sanchez B**
20055017, Page 85
- Sandbak LA**
20056206, Page 33
- Sanderson WT**
20056321, Page 25
- Sandler D**
20057014, Page 68
- Sandler DP**
20053704, Page 9
- Sandy M**
20057390, Page 46
- Sanyal S**
20056995, Page 8
- Sapko MJ**
20055580, Page 67
20055990, Page 32
20057399, Page 16
20057546, Page 71
- Sapko ML**
20057669, Page 28
- Sargent LM**
20057535, Page 34
- Sarkar S**
20055166, Page 80
- Sarkisian K**
20052931, Page 24
20054564, Page 21
20054872, Page 82
20056574, Page 25
- Sarmiento Rodriguez L**
20056815, Page 57
- Sarver E**
20055444, Page 13
20055576, Page 13
20057769, Page 3
- Satheshkumar PS**
20057574, Page 41
- Saunders SA**
20055064, Page 82
- Sauter SL**
20056836, Page 45
20056835, Page 46
- Savic N**
20053996, Page 23
20053997, Page 23
20055960, Page 32
- Savor Price C**
20057229, Page 29
- Sbarra D**
20055238, Page 11
- Schafer IJ**
20054407, Page 14
- Schall J**
20055113, Page 52
20057974, Page 3
- Schatzel S**
20057677, Page 73
- Schatzel SJ**
20055593, Page 13
20056092, Page 32
20056741, Page 13
20058593, Page 84
20058598, Page 79
- Schernhammer ES**
20055467, Page 20
- Schier JG**
20057099, Page 32
- Schiff M**
20058214, Page 29
- Schill AL**
20056835, Page 46
20056836, Page 45
20056838, Page 46
- Schleiff P**
20057784, Page 22
- Schlünssen V**
20055563, Page 3
- Schnorr T**
20056527, Page 56
20056816, Page 58
20057054, Page 59
20057201, Page 14
20057255, Page 60
- Scholl J**
20056818, Page 59
20056828, Page 81
- Scholl JC**
20056826, Page 45
20056831, Page 46
- Schubauer-Berigan M**
20057014, Page 68
- Schubauer-Berigan MK**
20054596, Page 8
20055011, Page 79
20056823, Page 18
- Schuler C**
20056526, Page 56
20057585, Page 56
20058548, Page 84
- Schuler CR**
20057159, Page 40
- Schulte J**
20056003, Page 7
- Schulte P**
20054395, Page 52
20056564, Page 57
20056812, Page 56
20057053, Page 58
20057055, Page 60
20057586, Page 58

- 20058022, Page 84
- Schulte PA**
20054475, Page 32
20056840, Page 46
20057259, Page 61
20057261, Page 61
20057298, Page 19
- Schulte R**
20056567, Page 57
- Schultz MJ**
20055113, Page 52
- Schwartz TS**
20057641, Page 31
- Schweger-Berry D**
20055011, Page 79
20055238, Page 11
20056891, Page 21
- Schüz J**
20056823, Page 18
- Scott K**
20056826, Page 45
- Scott LD**
20057352, Page 6
20057982, Page 78
20058404, Page 6
- Scott WS**
20055381, Page 18
- Seaman CE**
20055361, Page 3
20056258, Page 3
20057210, Page 72
- Sears MM**
20056107, Page 33
20057205, Page 72
20058408, Page 84
- Seaton M**
20056369, Page 54
- Seaton MG**
20057171, Page 33
20057184, Page 33
- Segal LN**
20056995, Page 8
- Seguin RA**
20054196, Page 40
- Seixas N**
20057435, Page 28
20057440, Page 36
- Seo Y**
20055822, Page 13
20055920, Page 33
20056670, Page 21
20056983, Page 13
- Sewram V**
20056823, Page 18
- Seyler T**
20057796, Page 5
20058606, Page 5
- Seymour B**
20055604, Page 72
- Seymour JB**
20056206, Page 33
20056207, Page 30
- Shaffer J**
20055525, Page 35
20056574, Page 25
- Shaffer RE**
20055469, Page 34
- Shahan M**
20055165, Page 30
20055248, Page 30
20055453, Page 33
20056652, Page 30
20057962, Page 30
- Shahan MR**
20055361, Page 3
20056020, Page 72
20056108, Page 44
20057210, Page 72
20057561, Page 72
20057823, Page 33
20058601, Page 86
- Shako J**
20058128, Page 2
- Shamout M**
20057600, Page 26
- Shane H**
20055074, Page 77
- Shane HL**
20054473, Page 33
20055010, Page 83
20055068, Page 33
20056209, Page 2
20057885, Page 31
- Shaw KA**
20058045, Page 34
- Shaw PB**
20050417, Page 31
20054867, Page 37
20057694, Page 6
20057791, Page 6
- Shealy K**
20057840, Page 19
- Shen S**
20058215, Page 15
- Shepherd DL**
20054699, Page 16
- Shi L**
20057022, Page 40
- Shields PG**
20058606, Page 5
- Shirley MA**
20057401, Page 4
- Shoeb M**
20054452, Page 34
20054851, Page 2
20054913, Page 84
20054953, Page 77
20054965, Page 81
20055013, Page 80
20055073, Page 78
- Shore D**
20057014, Page 68
- Shrivastava I**
20053239, Page 36
- Shuford JA**
20056003, Page 7
- Shugart J**
20056849, Page 40
- Shumate A**
20057260, Page 61
20057782, Page 19
- Shvedova A**
20054994, Page 81
20054998, Page 84
- Shvedova AA**
20053239, Page 36
- 20053634, Page 21
20055012, Page 81
20055977, Page 39
- Sieber WK**
20056528, Page 58
20058413, Page 72
- Siegel DA**
20057454, Page 34
20057840, Page 19
- Siegel M**
20055976, Page 34
- Siegel P**
20055563, Page 3
- Siegel PD**
20054083, Page 24
20055112, Page 14
20055331, Page 16
20057084, Page 34
- Siegrist KJ**
20057535, Page 34
- Sietsema M**
20055469, Page 34
- Sigsgaard T**
20055563, Page 3
20056057, Page 4
- Silva L**
20057796, Page 5
20058606, Page 5
- Silver SR**
20052450, Page 35
- Sim M**
20057390, Page 46
- Simberkoff MS**
20057229, Page 29
- Singal M**
20055685, Page 20
- Singh D**
20054978, Page 78
- Singh K**
20055165, Page 30
20056652, Page 30
20057962, Page 30
- Singh S**
20056388, Page 35
- Sinsel EW**
20056636, Page 5
20057342, Page 41
20057883, Page 6
- Siordia C**
20052274, Page 20
20057055, Page 60
- Sisler J**
20054872, Page 82
- Sisler JD**
20055525, Page 35
20056574, Page 25
20057397, Page 11
20057608, Page 29
- Sives K**
20057600, Page 26
- Skrobarcek KA**
20056003, Page 7
- Slaker B**
20057203, Page 72
20057205, Page 72
20057206, Page 67
20057208, Page 67
- Slaker BA**
20056023, Page 35
- Slavinski S**
20053777, Page 29
- Sleeth DK**
20056661, Page 5
- Slikker W**
20055166, Page 80
- Slone J**
20055955, Page 10
- Smalt CJ**
20054278, Page 8
- Smidt M**
20058398, Page 68
- Smith A**
20055166, Page 80
20055443, Page 23
20056094, Page 23
20057257, Page 61
20058597, Page 82
- Smith D**
20056247, Page 11
20056341, Page 11
- Smith DL**
20054639, Page 25
20054766, Page 91
20054771, Page 91
20054772, Page 91
20055381, Page 18
20055941, Page 21
20056484, Page 11
20058403, Page 35
- Smith E**
20057201, Page 14
- Smith JP**
20051934, Page 35
- Smith K**
20055013, Page 80
- Smith LC**
20055349, Page 35
- Smith-Roe SL**
20057390, Page 46
- Snawder J**
20051934, Page 35
20054148, Page 39
- Snawder JE**
20055680, Page 7
- Snyder-Talkington BN**
20056148, Page 35
20056388, Page 35
- Socias-Morales C**
20056191, Page 26
- Solidaki E**
20054192, Page 7
- Solomon S**
20056003, Page 7
- Somps C**
20055166, Page 80
- Sondermeyer Cooksey GL**
20054664, Page 8
- Song MA**
20058606, Page 5
- Sooriash R**
20057308, Page 31
- Sosa LE**
20055854, Page 36

- Sosnoff C**
 20057796, Page 5
 20058606, Page 5
- Sowers SB**
 20056282, Page 39
- Sparrow M**
 20057535, Page 34
- Spearing AJ S**
 20055462, Page 20
- Spector JT**
 20057440, Page 36
- Speizer FE**
 20057604, Page 10
- Spencer JB**
 20056340, Page 18
- Spitzer CR**
 20058606, Page 5
- Spitzer EG**
 20056899, Page 41
- Srednicki J**
 20055364, Page 27
 20057388, Page 74
- Srednicki JR**
 20054632, Page 42
 20055461, Page 42
 20057560, Page 65
- Srinivasan D**
 20057456, Page 62
- Sriram K**
 20054889, Page 84
 20057773, Page 18
- St Croix CM**
 20055977, Page 39
- Stanton M**
 20053232, Page 16
 20057994, Page 17
- Stanton ML**
 20053420, Page 6
 20054729, Page 93
 20055133, Page 94
 20055532, Page 37
 20056141, Page 40
 20056995, Page 8
 20057159, Page 40
- Stearns RL**
 20054785, Page 18
- Steege A**
 20057055, Page 60
- Stefaniak A**
 20054872, Page 82
 20054915, Page 83
 20055011, Page 79
 20055013, Page 80
 20055035, Page 85
 20055039, Page 84
 20055076, Page 79
- Stefaniak AB**
 20053232, Page 16
 20053420, Page 6
 20053918, Page 36
 20055010, Page 83
 20055532, Page 37
 20055890, Page 36
 20056110, Page 36
 20056141, Page 40
 20056352, Page 31
 20056574, Page 25
 20056891, Page 21
 20057159, Page 40
 20057397, Page 11
- 20057535, Page 34
 20057885, Page 31
 20057994, Page 17
 20058223, Page 42
- Stein R**
 20055113, Page 52
- Stephenson CM**
 20058033, Page 47
 20058034, Page 48
 20058035, Page 47
 20058036, Page 47
 20058037, Page 48
 20058038, Page 51
 20058040, Page 48
 20058041, Page 51
 20058043, Page 48
 20058046, Page 48
 20058076, Page 49
 20058077, Page 49
 20058078, Page 49
 20058079, Page 49
 20058080, Page 49
 20058081, Page 50
 20058083, Page 50
 20058084, Page 50
 20058085, Page 50
 20058086, Page 50
 20058087, Page 51
 20058088, Page 51
 20058090, Page 51
- Stewart JW**
 20055381, Page 18
- Stewart RJ**
 20053777, Page 29
- Stone D**
 20055604, Page 72
- Stone S**
 20054947, Page 85
- Stoner G**
 20057390, Page 46
- Stoyanovsky DA**
 20053239, Page 36
- Straif K**
 20056823, Page 18
- Strauch A**
 20055920, Page 33
- Strawderman L**
 20056337, Page 71
- Strebel M**
 20055113, Page 52
- Streicher R**
 20055955, Page 10
- Streit J**
 20057056, Page 60
- Strickland J**
 20053794, Page 36
- Stryzko J**
 20056003, Page 7
- Stueckle T**
 20054977, Page 85
 20054978, Page 78
 20054981, Page 85
 20055003, Page 81
 20055013, Page 80
 20055076, Page 79
 20057255, Page 60
 20058100, Page 85
- Stueckle TA**
 20056637, Page 21
 20057397, Page 11
 20057535, Page 34
- 20057888, Page 21
 20057960, Page 37
- Stull JO**
 20055238, Page 11
- Su C**
 20054664, Page 8
 20054933, Page 37
 20055316, Page 37
 20056282, Page 39
 20056479, Page 37
- Su D**
 20054057, Page 43
 20057384, Page 74
 20057686, Page 74
 20057816, Page 43
- Su DW H**
 20054181, Page 37
 20057677, Page 73
- Su FC**
 20053420, Page 6
 20055532, Page 37
 20055890, Page 36
 20056110, Page 36
 20056141, Page 40
- Su WH**
 20057555, Page 73
- Suleimanova KA**
 20055012, Page 81
- Sullivan K**
 20054891, Page 82
 20056660, Page 26
- Sullivan KA**
 20056864, Page 3
- Sun K**
 20054867, Page 37
 20056580, Page 37
 20056882, Page 27
- Sunderman C**
 20055456, Page 19
 20055463, Page 30
 20057389, Page 19
- Sunshine R**
 20054407, Page 14
- Sussell A**
 20054845, Page 30
 20057793, Page 17
- Suzuki T**
 20057390, Page 46
- Svendsen MV**
 20057175, Page 21
- Swanson LR**
 20054472, Page 4
 20055607, Page 65
 20056105, Page 23
 20056106, Page 37
 20057544, Page 65
 20057901, Page 38
 20058594, Page 77
 20058602, Page 85
- Swanson N**
 20057056, Page 60
- Sweeney M**
 20057054, Page 59
- Sweeney MH**
 20054933, Page 37
 20056034, Page 24
 20057201, Page 14
- Swift MD**
 20054926, Page 5
- Syamlal G**
 20054721, Page 38
 20054919, Page 79
 20055327, Page 38
 20055621, Page 9
 20056479, Page 37
 20056576, Page 42
- Sylvester T**
 20054407, Page 14
- Syron LN**
 20054532, Page 38
 20056578, Page 38
 20057270, Page 5
 20058398, Page 68
- Szablewski CM**
 20058045, Page 34
- Szudy B**
 20058033, Page 47
 20058034, Page 48
 20058035, Page 47
 20058036, Page 47
 20058037, Page 48
 20058038, Page 51
 20058040, Page 48
 20058041, Page 51
 20058043, Page 48
 20058046, Page 48
 20058076, Page 49
 20058077, Page 49
 20058078, Page 49
 20058079, Page 49
 20058080, Page 49
 20058081, Page 50
 20058083, Page 50
 20058084, Page 50
 20058085, Page 50
 20058086, Page 50
 20058087, Page 51
 20058088, Page 51
 20058090, Page 51
- Tai EW**
 20054845, Page 30
- Takahashi M**
 20054668, Page 13
 20057501, Page 47
- Tallaksen R**
 20057704, Page 16
- Tallaksen RJ**
 20056995, Page 8
- Tamers S**
 20056479, Page 37
- Tamers SL**
 20054539, Page 38
 20055316, Page 37
- Tanz LJ**
 20055467, Page 20
- Tarlo SM**
 20057572, Page 17
- Tasko SM**
 20058015, Page 9
- Taylor KC**
 20056340, Page 18
- Teixeira JP**
 20057390, Page 46
- Terrill ML**
 20056340, Page 18
- Terrones M**
 20057535, Page 34
- Teske TD**
 20057115, Page 59
 20057114, Page 59

- Tevis D**
20058606, Page 5
- Tham WK**
20058215, Page 15
- Thanassi W**
20055854, Page 36
- Thapa N**
20054827, Page 38
- Thayer S**
20057206, Page 67
- Themann CL**
20053320, Page 18
20055690, Page 38
20057318, Page 58
20058007, Page 38
- Thiese MS**
20055958, Page 12
- Thimons ED**
20055445, Page 4
- Thomas CC**
20054845, Page 30
- Thomas J**
20057099, Page 32
20057796, Page 5
20058606, Page 5
- Thomas K**
20053704, Page 9
- Thomas R**
20056090, Page 3
20058600, Page 77
- Thomas RA**
20056109, Page 32
20056245, Page 75
20057558, Page 63
20058589, Page 84
- Thomas T**
20055076, Page 79
20057608, Page 29
20058215, Page 15
- Thomas TA**
20055525, Page 35
20057397, Page 11
- Thompson JA**
20053878, Page 32
20054890, Page 85
- Tiesman H**
20057964, Page 38
- Tiesman HM**
20055496, Page 39
20056744, Page 39
20058412, Page 63
- Timashev PS**
20055977, Page 39
- Timme E**
20056282, Page 39
- Tinney-Zara C**
20052931, Page 24
20054474, Page 18
- Tischer M**
20053996, Page 23
20053997, Page 23
- Toda M**
20056003, Page 7
- Todero C**
20057352, Page 6
20057982, Page 78
- Toedebusch RG**
20057641, Page 31
- Toennis C**
20056341, Page 11
20056484, Page 11
- Toennis CA**
20050350, Page 25
- Toland MD**
20056074, Page 15
- Tomasi SE**
20054178, Page 39
20054827, Page 38
20057747, Page 94
- Tong W**
20055166, Page 80
- Topmiller JL**
20055649, Page 96
- Torén K**
20056057, Page 4
- Townsend MB**
20057574, Page 41
- Trackemas J**
20057384, Page 74
- Traidl-Hoffmann C**
20055563, Page 3
- Tran CH**
20056211, Page 7
- Trinkoff A**
20057352, Page 6
20057501, Page 47
20057982, Page 78
20058404, Page 6
20058409, Page 66
- Tripodis Y**
20056468, Page 2
- Trivers KF**
20057830, Page 7
- Troester M**
20057014, Page 68
- Trout D**
20055680, Page 7
20056816, Page 58
20057473, Page 98
- Troy WR**
20055685, Page 20
- Trtanj JM**
20054785, Page 18
- Tsai R**
20054463, Page 2
20055770, Page 39
- Tsai RJ**
20054780, Page 10
- Tsay SV**
20057099, Page 32
- Tschurtz BA**
20054926, Page 5
- Tseng C y**
20056817, Page 59
- Tseng C-Y**
20056355, Page 26
20056828, Page 81
- Tshapenda G**
20058128, Page 2
- Tshibinkufua F**
20058128, Page 2
- Tsuruoka S**
20057535, Page 34
- Tuchman DP**
20054234, Page 26
20056651, Page 28
- Tucker S**
20057352, Page 6
20057982, Page 78
20058409, Page 66
- Tulu B**
20054057, Page 43
- Tulu IB**
20056107, Page 33
20057678, Page 73
20057682, Page 68
20058408, Page 84
- Tuncay D**
20057678, Page 73
20057682, Page 68
- Turner DM**
20056355, Page 26
- Turner J**
20054148, Page 39
- Turner MC**
20056823, Page 18
- Tutu Y**
20058128, Page 2
- Tyrna PL**
20057695, Page 10
- Tyurin VA**
20053239, Page 36
20055977, Page 39
- Tyurina YY**
20053239, Page 36
20055977, Page 39
- Umbright C**
20054452, Page 34
20055014, Page 81
- Unice KM**
20057401, Page 4
- Unrine JM**
20054781, Page 43
- Upaassana VT**
20056285, Page 39
- Ussery EN**
20057600, Page 26
20057830, Page 7
- Utell MJ**
20055685, Page 20
- Uzicanin A**
20056389, Page 14
- Valentin-Blasini L**
20057796, Page 5
20058606, Page 5
- Van Bogaert D**
20056935, Page 59
- Van Dyke M**
20054056, Page 10
20054057, Page 43
20054181, Page 37
20057677, Page 73
- Van Dyke MA**
20057555, Page 73
20057682, Page 68
- Van Houten C**
20056211, Page 7
- van Tongeren M**
20053996, Page 23
20053997, Page 23
- Vanderslice S**
20057559, Page 70
20057769, Page 3
20057818, Page 6
- VanFrank B**
20057099, Page 32
- Vanos JK**
20054785, Page 18
- Vargas-Prada S**
20054192, Page 7
- Varner K**
20055214, Page 41
- Varraso R**
20057604, Page 10
- Vashishtha S**
20056660, Page 26
- Vaughan J**
20055822, Page 13
20056983, Page 13
- Venkat H**
20054407, Page 14
20056282, Page 39
- Vernez D**
20053996, Page 23
20053997, Page 23
20055960, Page 32
- Victoroff T**
20054225, Page 42
- Victory KR**
20053422, Page 9
20054397, Page 7
20054748, Page 40
20056849, Page 40
- Vidourek RA**
20056825, Page 19
- Vikmanovic S**
20053794, Page 36
- Vinnikov D**
20056057, Page 4
- Violanti JM**
20051615, Page 40
20052931, Page 24
20054474, Page 18
20055654, Page 19
20056411, Page 25
20056685, Page 1
20057355, Page 14
20057988, Page 83
20058010, Page 85
20058167, Page 1
- Virji MA**
20053232, Page 16
20053420, Page 6
20055532, Page 37
20055890, Page 36
20056141, Page 40
20056995, Page 8
20057074, Page 96
20057159, Page 40
20057994, Page 17
20058223, Page 42
- Vivoda JM**
20056884, Page 40
- Vladimirov YA**
20053239, Page 36
- Vlasova II**
20055977, Page 39
- Vodicka P**
20057390, Page 46

- Volckens J**
20054291, Page 23
- Volkwein J**
20057769, Page 3
- Vucetic A**
20055064, Page 82
20056044, Page 27
- Vugia DJ**
20054664, Page 8
- Waddell DE**
20053166, Page 6
- Wade C**
20053166, Page 6
- Wadley VG**
20050488, Page 12
- Wagner A**
20054981, Page 85
20057960, Page 37
- Wagner CM**
20058018, Page 40
- Wall AT**
20058018, Page 40
- Wallace MAG**
20056341, Page 11
20056484, Page 11
- Wallace R**
20054196, Page 40
- Wallace RM**
20056211, Page 7
- Wang Rojanasakul L**
20054977, Page 85
- Wang C**
20054196, Page 40
- Wang G**
20057608, Page 29
- Wang K**
20057022, Page 40
- Wang L**
20057796, Page 5
20058606, Page 5
- Wang X**
20052447, Page 14
20055843, Page 41
20058251, Page 67
- Wang Y**
20057608, Page 29
- Ward BW**
20056034, Page 24
- Warnakulasuriya SS P**
20054192, Page 7
- Warren CM**
20054680, Page 42
20056636, Page 5
20057342, Page 41
20057883, Page 6
- Warren S**
20056942, Page 65
- Warren SN**
20056206, Page 33
- Warshaw EM**
20055112, Page 14
20057084, Page 34
- Washington IM**
20056978, Page 43
- Wassell JT**
20057172, Page 16
- Waters MA**
20055976, Page 34
- Watkins E**
20057677, Page 73
- Watkins SC**
20055977, Page 39
- Watson AM**
20055977, Page 39
- Watson C**
20057796, Page 5
20058606, Page 5
- Waugh S**
20054175, Page 28
20054564, Page 21
20056891, Page 21
- Weakley AT**
20056011, Page 28
20057365, Page 83
- Weatherly L**
20055074, Page 77
20056209, Page 2
- Webb S**
20055410, Page 53
20055809, Page 53
20056526, Page 56
20057113, Page 60
20057585, Page 56
20057837, Page 53
- Weber J**
20055113, Page 52
- Wei Y**
20058215, Page 15
- Weinberg JL**
20057308, Page 31
- Weiss C Jr**
20055350, Page 20
- Weiss ES**
20055990, Page 32
- Weissman D**
20056298, Page 56
20056525, Page 56
20057308, Page 31
20057704, Page 16
- Weissman DN**
20056995, Page 8
20057099, Page 32
20057454, Page 34
20057840, Page 19
- Welcome DE**
20054680, Page 42
- Wells JR**
20053918, Page 36
20055685, Page 20
20055890, Page 36
20056110, Page 36
- Wells LL**
20058386, Page 70
20058419, Page 70
- Wen Q**
20057022, Page 40
- Wendland D**
20056995, Page 8
- Wenzel SE**
20055977, Page 39
- Werner AK**
20057600, Page 26
- Werren D**
20058254, Page 69
- 20058255, Page 63
- Weston EB**
20058256, Page 73
- Weston R**
20056339, Page 64
- Weston T**
20056339, Page 64
- Wewers MD**
20058606, Page 5
- Wheeler M**
20052445, Page 41
- Whelan E**
20057255, Page 60
- Whisner B**
20056094, Page 23
20057388, Page 74
20057556, Page 68
20057564, Page 74
20058166, Page 74
20058597, Page 82
- Whitaker DA**
20055247, Page 13
20055284, Page 13
- White A**
20057960, Page 37
- Whitehouse ER**
20057574, Page 41
- Whitson A**
20055582, Page 41
20056221, Page 29
- Whittaker C**
20053744, Page 17
20056369, Page 54
20057259, Page 61
- Wible D**
20054257, Page 25
- Wickline J**
20057682, Page 68
- Wiegand D**
20055365, Page 93
20056908, Page 94
- Wiegand DM**
20055150, Page 96
20055680, Page 7
20055787, Page 97
20055827, Page 95
20056639, Page 8
20057719, Page 99
- Wiley J**
20057535, Page 34
- Wilken JA**
20054664, Page 8
- Wilkerson JC**
20054943, Page 1
- Wilkins K**
20057574, Page 41
- Will L**
20055854, Page 36
- Williams AL**
20054785, Page 18
- Williams DF**
20058137, Page 62
- Williams DJ**
20056978, Page 43
- Williams S**
20054943, Page 1
- Williams W**
20056210, Page 12
- Williams WJ**
20054785, Page 18
20056066, Page 55
- Willmer DR**
20055447, Page 10
20058410, Page 69
- Wilson J**
20055996, Page 71
20057552, Page 71
- Wilson KJ**
20057113, Page 60
- Wilson L**
20055113, Page 52
- Wiltz JL**
20057840, Page 19
- Wimer BM**
20053453, Page 41
20057842, Page 73
20057845, Page 73
- Winchell J**
20058045, Page 34
- Winfield J**
20057203, Page 72
20057205, Page 72
20057208, Page 67
- Winn AC**
20056978, Page 43
- Wirth MD**
20054474, Page 18
- Wirth O**
20054540, Page 12
20055102, Page 17
20055389, Page 17
20056890, Page 12
- Witt KL**
20050417, Page 31
- Witte TK**
20055324, Page 20
20056899, Page 41
- Wizner K**
20054379, Page 29
- Wolfarth M**
20055039, Page 84
- Wolfarth MG**
20056388, Page 35
- Wolfe A**
20055528, Page 54
20057704, Page 16
- Wolff J**
20057308, Page 31
- Wolff NH**
20057440, Page 36
- Wong IS**
20057091, Page 41
- Wood M**
20055350, Page 20
- Woodward P**
20054407, Page 14
- Wu B**
20055214, Page 41
- Wu F**
20058214, Page 29
- Wu JZ**
20053453, Page 41
20056636, Page 5

- 20057342, Page 41
20057842, Page 73
20057845, Page 73
20057883, Page 6
- Wu NQ**
20055011, Page 79
- Wurzelbacher S**
20056817, Page 59
20056828, Page 81
- Wurzelbacher SJ**
20056355, Page 26
- Xia B**
20057796, Page 5
20058606, Page 5
- Xiang N**
20058006, Page 27
- Xin X**
20054913, Page 84
20055035, Page 85
20055039, Page 84
- Xu SS**
20055921, Page 4
20058136, Page 74
20058374, Page 42
- Xu XS**
20054680, Page 42
- Yaglom H**
20054407, Page 14
- Yan B**
20056978, Page 43
- Yan L**
20054632, Page 42
20055448, Page 42
20055461, Page 42
20057388, Page 74
20057961, Page 42
- Yanamala N**
20053634, Page 21
20054919, Page 79
20054994, Page 81
20054998, Page 84
20055011, Page 79
20055012, Page 81
20056576, Page 42
- Yang X**
20056978, Page 43
- Yang Y**
20057022, Page 40
- Yantek D**
20055448, Page 42
20057388, Page 74
- Yantek DS**
20054632, Page 42
20055445, Page 4
20055461, Page 42
20057560, Page 65
20057961, Page 42
- Ye Q**
20058215, Page 15
- Yekich M**
20055453, Page 33
- Yeoman K**
20054225, Page 42
20056935, Page 59
- Yi J**
20058223, Page 42
- Yin S**
20055685, Page 20
- Yokel RA**
20054781, Page 43
- Yonkey JA**
20055363, Page 24
20055461, Page 42
- Yorio P**
20054379, Page 29
20056670, Page 21
- Yorio PL**
20054846, Page 24
20055306, Page 15
20055597, Page 20
20055765, Page 43
20056747, Page 43
20057083, Page 10
- Young T**
20055167, Page 78
20056044, Page 27
- Young TL**
20055017, Page 85
- Yu JJ**
20056978, Page 43
- Yu PA**
20057574, Page 41
- Yu YC**
20057574, Page 41
- Yuan L**
20055362, Page 32
20056090, Page 3
20056109, Page 32
20056245, Page 75
20057558, Page 63
20058589, Page 84
- 20058600, Page 77
- Yue X**
20054788, Page 43
- Yung M**
20056857, Page 43
- Zahl E**
20056207, Page 30
- Zaki S**
20057099, Page 32
- Zaki SR**
20057454, Page 34
- Zang LY**
20055112, Page 14
- Zapata LB**
20057600, Page 26
- Zavadil J**
20056823, Page 18
- Zeidler-Erdely P**
20054947, Page 85
20054953, Page 77
20054965, Page 81
- Zeidler-Erdely PC**
20053236, Page 11
20054851, Page 2
20056044, Page 27
- Zeise L**
20056823, Page 18
- Zeldin DC**
20054943, Page 1
- Zell-Baran L**
20057308, Page 31
- Zemba V**
20055350, Page 20
- Zhang P**
20054057, Page 43
20054181, Page 37
20057384, Page 74
20057677, Page 73
20057686, Page 74
20057816, Page 43
- Zhang Y**
20057608, Page 29
20058640, Page 78
- Zhao W**
20054979, Page 80
- Zheng J**
20056978, Page 43
- Zheng L**
20057342, Page 41
- 20057540, Page 43
- Zheng W**
20054963, Page 81
- Zheng Y**
20055360, Page 30
20055442, Page 44
20056108, Page 44
20058601, Page 86
- Zhou C**
20055364, Page 27
20056093, Page 44
20056105, Page 23
20057389, Page 19
20057556, Page 68
20057564, Page 74
20058166, Page 74
20058572, Page 86
- Zhou L**
20056090, Page 3
20056109, Page 32
20056245, Page 75
20057558, Page 63
20058589, Page 84
20058600, Page 77
- Zhu J**
20055823, Page 44
- Zhuang Z**
20055823, Page 44
20055921, Page 4
20058136, Page 74
20058374, Page 42
- Zlochower I**
20057546, Page 71
- Zlochower IA**
20055990, Page 32
- Zock J-P**
20057604, Page 10
- Zwack L**
20056908, Page 94
- Zwack LM**
20055987, Page 93
20056639, Page 8

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National Occupational Research Agenda (NORA) Index

Agriculture, Forestry and Fishing

20054532, Page 38
20054785, Page 18
20056578, Page 38
20056825, Page 19
20057114, Page 59
20057115, Page 59
20057270, Page 5

Construction

20051934, Page 35
20053166, Page 6
20053453, Page 41
20054452, Page 34
20054680, Page 42
20054785, Page 18
20054851, Page 2
20054872, Page 82
20054913, Page 84
20054953, Page 77
20054964, Page 84
20054965, Page 81
20055013, Page 80
20055032, Page 20
20055073, Page 78
20055929, Page 54
20056285, Page 39
20056636, Page 5
20056825, Page 19
20057318, Page 58
20057342, Page 41
20057360, Page 87
20057374, Page 87
20057456, Page 62
20057611, Page 9
20057704, Page 16
20057824, Page 62
20057842, Page 73
20057845, Page 73
20057883, Page 6
20058064, Page 87

Healthcare and Social Assistance

20050350, Page 25
20052073, Page 29
20052810, Page 23
20053610, Page 23
20054177, Page 22
20054313, Page 19
20054473, Page 33
20054846, Page 24
20054926, Page 5
20054940, Page 31
20055068, Page 33
20055074, Page 77
20055469, Page 34
20055532, Page 37
20055597, Page 20
20055685, Page 20
20055765, Page 43
20055823, Page 44
20055854, Page 36
20055921, Page 4
20056141, Page 20

20056209, Page 2
20056263, Page 27
20056639, Page 8
20056908, Page 94
20057172, Page 16
20057501, Page 47
20057709, Page 24
20057853, Page 11
20057959, Page 8
20058050, Page 62
20058214, Page 29

Manufacturing

20052810, Page 23
20053232, Page 16
20053236, Page 11
20053453, Page 41
20053610, Page 23
20053675, Page 17
20053704, Page 9
20053744, Page 17
20053996, Page 23
20053997, Page 23
20054083, Page 24
20054175, Page 28
20054291, Page 23
20054395, Page 52
20054539, Page 38
20054564, Page 21
20054680, Page 42
20054699, Page 16
20054748, Page 40
20054872, Page 82
20054891, Page 82
20054915, Page 83
20054919, Page 79
20054925, Page 27
20054944, Page 82
20054947, Page 85
20054963, Page 81
20054964, Page 84
20054977, Page 85
20054978, Page 78
20054981, Page 85
20054994, Page 81
20055001, Page 79
20055003, Page 81
20055010, Page 83
20055011, Page 79
20055013, Page 80
20055014, Page 81
20055017, Page 85
20055032, Page 20
20055035, Page 85
20055039, Page 84
20055064, Page 82
20055075, Page 79
20055076, Page 79
20055166, Page 80
20055169, Page 83
20055196, Page 17
20055332, Page 24
20055349, Page 35
20055350, Page 20
20055687, Page 4
20055690, Page 38

20055843, Page 41
20055890, Page 36
20055929, Page 54
20055940, Page 46
20055942, Page 31
20055943, Page 45
20055955, Page 10
20055958, Page 12
20055960, Page 32
20055976, Page 34
20056044, Page 27
20056141, Page 40
20056148, Page 35
20056192, Page 8
20056210, Page 12
20056285, Page 39
20056295, Page 55
20056355, Page 26
20056388, Page 35
20056574, Page 25
20056576, Page 42
20056637, Page 21
20056660, Page 26
20056812, Page 56
20056835, Page 46
20056836, Page 45
20056842, Page 45
20056862, Page 27
20056891, Page 21
20057022, Page 40
20057159, Page 40
20057318, Page 58
20057397, Page 11
20057426, Page 9
20057456, Page 62
20057535, Page 34
20057540, Page 43
20057773, Page 18
20057793, Page 17
20057824, Page 62
20057885, Page 31
20057888, Page 21
20057960, Page 37
20057994, Page 17
20058064, Page 87
20058251, Page 67
20058254, Page 69
20058255, Page 63
20058256, Page 73
20058259, Page 66
20058261, Page 69

Mining

20052163, Page 32
20053239, Page 36
20053634, Page 21
20054014, Page 21
20054056, Page 10
20054057, Page 43
20054225, Page 42
20054378, Page 15
20054422, Page 69
20054470, Page 4
20054472, Page 4
20054632, Page 42
20054998, Page 84

20055012, Page 81
20055067, Page 15
20055113, Page 52
20055165, Page 30
20055248, Page 30
20055306, Page 15
20055360, Page 30
20055361, Page 3
20055362, Page 32
20055363, Page 24
20055364, Page 27
20055442, Page 44
20055443, Page 23
20055445, Page 4
20055446, Page 7
20055447, Page 10
20055448, Page 42
20055450, Page 27
20055453, Page 33
20055454, Page 28
20055455, Page 17
20055461, Page 42
20055462, Page 20
20055463, Page 30
20055528, Page 54
20055576, Page 13
20055580, Page 67
20055582, Page 41
20055604, Page 72
20055608, Page 68
20055890, Page 36
20055903, Page 16
20055977, Page 39
20055980, Page 28
20055990, Page 32
20055996, Page 71
20056011, Page 28
20056018, Page 67
20056020, Page 72
20056023, Page 35
20056024, Page 65
20056087, Page 15
20056088, Page 25
20056090, Page 3
20056107, Page 33
20056108, Page 44
20056109, Page 32
20056112, Page 67
20056206, Page 33
20056207, Page 30
20056221, Page 29
20056245, Page 75
20056296, Page 57
20056336, Page 66
20056338, Page 70
20056339, Page 64
20056580, Page 37
20056651, Page 28
20056652, Page 30
20056750, Page 54
20056942, Page 65
20057203, Page 72
20057204, Page 71
20057205, Page 72
20057206, Page 67
20057208, Page 67

20057210, Page 72
 20057250, Page 15
 20057365, Page 83
 20057367, Page 63
 20057385, Page 69
 20057388, Page 74
 20057389, Page 19
 20057399, Page 16
 20057402, Page 25
 20057546, Page 71
 20057552, Page 71
 20057554, Page 68
 20057558, Page 63
 20057559, Page 70
 20057560, Page 65
 20057561, Page 72
 20057563, Page 64
 20057669, Page 28
 20057678, Page 73
 20057680, Page 68
 20057682, Page 68
 20057683, Page 69
 20057704, Page 16
 20057769, Page 3
 20057818, Page 6
 20057823, Page 33
 20057961, Page 42
 20057962, Page 30
 20057974, Page 3
 20058158, Page 28
 20058417, Page 63
 20058589, Page 84
 20058600, Page 77
 20058601, Page 86

Mining: Oil and Gas

Extraction

20053878, Page 32
 20054181, Page 37
 20054781, Page 43
 20054890, Page 85
 20055593, Page 13
 20056067, Page 55
 20056092, Page 32
 20056741, Page 13
 20057091, Page 41
 20057384, Page 74
 20057540, Page 43
 20057677, Page 73
 20057686, Page 74
 20057816, Page 43

20058593, Page 84
 20058598, Page 79

Services

20052450, Page 35
 20053422, Page 9
 20053918, Page 36
 20054007, Page 4
 20054177, Page 22
 20054224, Page 3
 20054313, Page 19
 20054397, Page 7
 20054540, Page 12
 20054664, Page 8
 20054788, Page 43
 20054790, Page 14
 20054933, Page 37
 20055027, Page 95
 20055129, Page 93
 20055150, Page 96
 20055183, Page 93
 20055205, Page 98
 20055267, Page 97
 20055365, Page 93
 20055644, Page 96
 20055649, Page 96
 20055680, Page 7
 20055685, Page 20
 20055787, Page 97
 20055827, Page 95
 20055840, Page 97
 20055890, Page 36
 20055987, Page 93
 20056003, Page 7
 20056099, Page 97
 20056110, Page 36
 20056211, Page 7
 20056304, Page 95
 20056742, Page 98
 20056907, Page 95
 20056908, Page 94
 20056971, Page 95
 20057066, Page 97
 20057279, Page 95
 20057474, Page 98
 20057628, Page 98
 20057719, Page 99
 20057777, Page 98
 20058033, Page 47
 20058034, Page 48
 20058035, Page 47
 20058036, Page 47

20058037, Page 48
 20058038, Page 51
 20058040, Page 48
 20058041, Page 51
 20058043, Page 48
 20058046, Page 48
 20058053, Page 98
 20058076, Page 49
 20058077, Page 49
 20058078, Page 49
 20058079, Page 49
 20058080, Page 49
 20058081, Page 50
 20058083, Page 50
 20058084, Page 50
 20058085, Page 50
 20058086, Page 50
 20058087, Page 51
 20058088, Page 51
 20058090, Page 51
 20058126, Page 94
 20058129, Page 94
 20058165, Page 99
 20058223, Page 42

Services: Public Safety

20051615, Page 40
 20052073, Page 29
 20052274, Page 20
 20052931, Page 24
 20053777, Page 29
 20054006, Page 16
 20054474, Page 18
 20054639, Page 25
 20054766, Page 91
 20054771, Page 91
 20054772, Page 91
 20054785, Page 18
 20054846, Page 24
 20055238, Page 11
 20055247, Page 13
 20055284, Page 13
 20055320, Page 91
 20055597, Page 20
 20055654, Page 19
 20055765, Page 43
 20055821, Page 30
 20055920, Page 33
 20056089, Page 92
 20056137, Page 92
 20056341, Page 11
 20056411, Page 25

20056484, Page 11
 20056685, Page 1
 20056744, Page 39
 20056791, Page 92
 20056841, Page 45
 20057058, Page 92
 20057113, Page 60
 20057352, Page 6
 20057355, Page 14
 20057362, Page 87
 20057542, Page 92
 20057730, Page 91
 20057793, Page 17
 20057964, Page 38
 20057982, Page 78
 20057988, Page 83
 20058010, Page 85
 20058050, Page 62
 20058167, Page 1
 20058404, Page 6
 20058409, Page 66
 20058412, Page 63

Transportation,

Warehousing and Utilities

20052450, Page 35
 20054177, Page 22
 20056191, Page 26
 20056528, Page 58
 20057091, Page 41
 20057443, Page 61
 20057501, Page 47
 20057862, Page 62
 20057990, Page 78
 20058098, Page 78
 20058640, Page 78

Wholesale and Retail Trade

20052450, Page 35
 20054177, Page 22
 20056191, Page 26
 20056528, Page 58
 20057091, Page 41
 20057443, Page 61
 20057501, Page 47
 20057862, Page 62
 20057990, Page 78
 20058098, Page 78
 20058640, Page 78

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