

NIOSH BIBLIOGRAPHY OF COMMUNICATION AND RESEARCH PRODUCTS | 2017



**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 2017* represent the variety of people who benefit from the work of the National Institute for Occupational Safety and Health. Workers, researchers, and workplace issues depicted in the photographs are as follows, from bottom left to upper right:

- Nursing.
- Agriculture.
- Personal protective equipment (PPE).
- Construction.
- Warehousing.
- Hearing protection.
- Laboratory research.

All photographs are from ©Thinkstock.

NIOSH

Bibliography
of Communication
and Research Products

2017

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

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April 2018

Foreword

We strive for excellence in our scientific endeavors and in the publications of our work. This bibliography is our effort to provide the best scientific information possible to maintain and improve safety and health at work. I believe that this bibliography reflects and reinforces the NIOSH values of relevance, quality, and impact, and demonstrates the consistent commitment of NIOSH and our partners to all workers as they face challenges to be safe and healthy while contributing to our nation's productivity. Please explore these products further and distribute them freely in workplaces and to our colleagues in the occupational health and safety community.



A handwritten signature in black ink that reads "John Howard". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

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

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Introduction

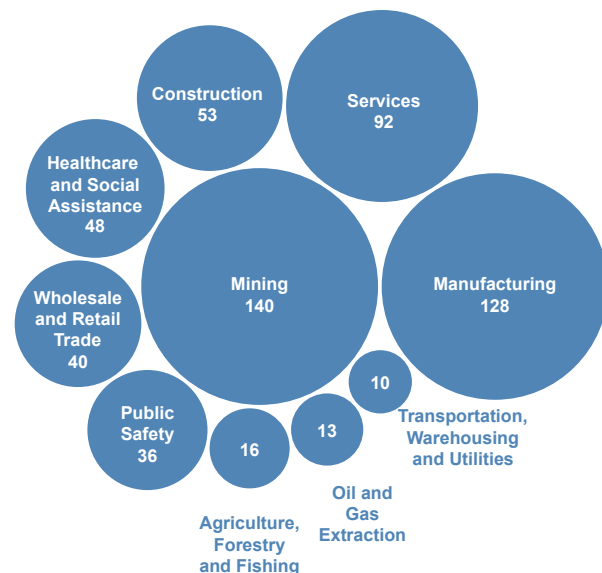
In 2017, the National Institute for Occupational Safety and Health (NIOSH) and its partners in the public and private sectors met a myriad of occupational safety and health challenges. These ranged from natural disasters to a changing, increasingly technological, often gig-based, workplace. Many insightful communication and research products showcased NIOSH efforts to make workplaces safer and healthier. In keeping with the NIOSH tradition of translating critical lessons learned into actionable communication and research products, 2017 ended with an extensive compendium of products promoting occupational safety and health for all workers.

Although far-reaching in subject, each of these products adhered to a central tenet of the Institute's mission: to produce new scientific knowledge and provide practical solutions vital to reducing workers' risk of injury, illness, and death.

NIOSH Program Portfolio

Throughout the year, NIOSH contributed to the [National Occupational and Research Agenda \(NORA\)](#), now in its third decade. NORA's portfolio of 10 sector programs represents specific industries and seven health and safety cross-sector programs organized around health outcomes that cut across industries. As intramural scientists and scientists at NIOSH-supported institutions investigated the pressing occupational safety and health questions of 2017, their research culminated in peer-reviewed publications across these sectors, as shown in Figure 1. As always, protecting worker safety and health remained the benchmark.

Figure 1. Information products by NORA Sector



NORA sectors were addressed 576 times by NIOSH products in 2017.

Structure of NIOSH

The organizational structure at NIOSH comprises 14 divisions, laboratories, and offices (DLOs), described in Figure 3. With headquarters in Atlanta, Georgia, and Washington, D.C., NIOSH maintains research laboratories and offices in six locations:

- Anchorage, Alaska
- Cincinnati, Ohio
- Denver, Colorado
- Morgantown, West Virginia
- Pittsburgh, Pennsylvania
- Spokane, Washington

In these laboratories, NIOSH scientists bring the most-advanced technologies and methods to current issues in occupational safety and health research. NIOSH scientists in Pittsburgh, for example, test mine-safety interventions in a four-mile, underground test coal mine that, in a safe and controlled environment, simulates a working coal mine. In Morgantown, NIOSH scientists use the NIOSH Virtual Reality Laboratory to study how to prevent falls in construction and other industries. Using computer technology, this laboratory creates for users a safe, three-dimensional virtual experience, such as walking on elevated scaffolding at a construction site.

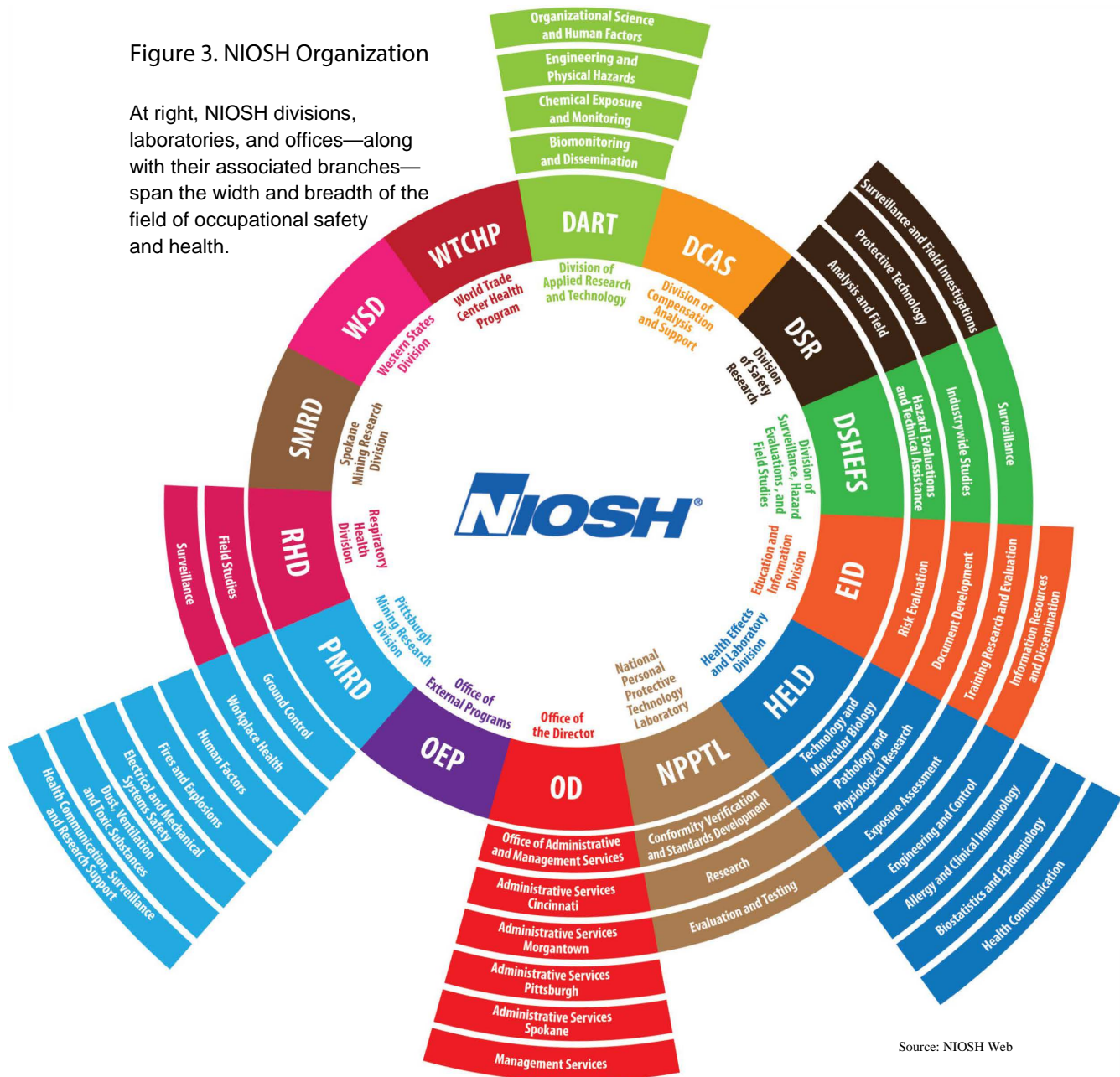
NIOSH scientists also go to worksites when called to the field through the NIOSH Health Hazard Evaluation Program. In 2017, NIOSH scientists worked with partners nationwide to evaluate the causes of work-related illness, injury, and death in diverse industries, including firefighting, mining, construction, and oil and gas extraction.

Figure 2. NIOSH Locations



Figure 3. NIOSH Organization

At right, NIOSH divisions, laboratories, and offices—along with their associated branches—span the width and breadth of the field of occupational safety and health.



Source: NIOSH Web

Mission Goals and Objectives (2016–2020)

Goal 1: Conduct research to reduce worker illness and injury, and to advance worker well-being.

- Track work-related hazards, exposures, illnesses and injuries for prevention.
- Generate new knowledge through intramural and extramural research programs.
- Develop innovative solutions for difficult-to-solve problems in high-risk industrial sectors.

Goal 2: Promote safe and healthy workers through interventions, recommendations, and capacity building.

- Enhance the relevance and utility of recommendations and guidance.
- Transfer research findings, technologies and information into practice.
- Build capacity to address traditional and emerging hazards.

Goal 3: Enhance worker safety and health through global collaborations.

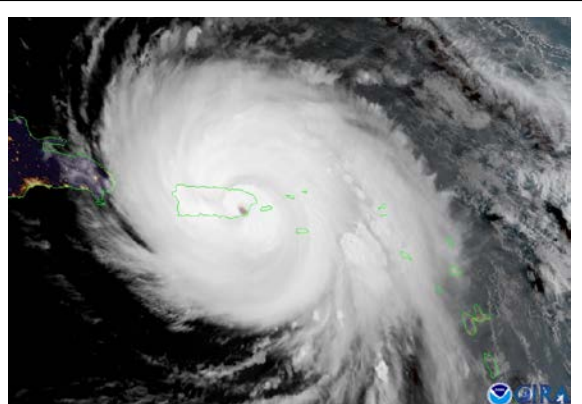
- Take a leadership role to share knowledge and best practices.
- Provide workplace illness and injury reduction strategies.
- Build professional capacity to address workplace hazards through information sharing and research experience.

A Year of Research and Communication Products

Below are examples of outstanding research and communication products that advanced the field of occupational safety and health in 2017.

First Responder Safety and Health

NIOSH responded to the many natural threats to workers in 2017. The biggest response aided workers in the wake of the deadly hurricane season in Texas, Florida, and Puerto Rico. Joining the Centers for Disease Control and Prevention's (CDC) disaster response team, experienced NIOSH staff worked tirelessly to ensure the safety of first responders and other workers. Earlier in the year, NIOSH published multilingual [key messages](#) to help employers, workers, and volunteers work safely before, during, and after a hurricane. Available in English, Spanish, Chinese, and Vietnamese, these [key messages](#) explain how to avoid hazards, including carbon monoxide, mold, and heat stress.



Source: NOAA

Category 4 Hurricane Maria made landfall near Yabucoa, Puerto Rico, around 6:15 a.m. EDT on September 20, 2017. NIOSH responded to hurricanes in Texas, Florida, and Puerto Rico in 2017.

NIOSH continued research in 2017 to understand the risks faced by the nation's first responders. As part of this effort, NIOSH launched a new research program to investigate line-of-duty deaths from motor vehicle events among law enforcement officers. Supported with funding from the National Institute of Justice, the [Law Enforcement Officer Motor Vehicle Crash and Struck-by Fatality Investigations Pilot Program](#) will develop comprehensive reports on fatal motor vehicle events. These reports will include descriptions of the events, contributing factors, and recommendations to prevent similar fatal events from occurring.



Source: NIOSH Web

Moving to emergency medical service (EMS) workers, NIOSH released the seven-part award-winning "[Improving EMS Worker Safety through Ambulance Design and Testing](#)" series on new crash test methods for safer ambulance design. Cofunded with the Department of Homeland Security's Science and Technology Directorate, the series resulted from NIOSH research with other federal agencies and the ambulance

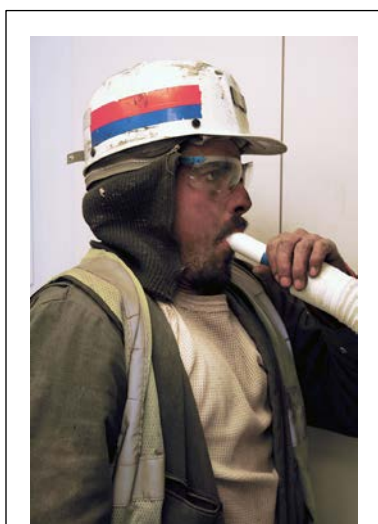
manufacturing industry. It includes these sections:

- [Ambulance History, Injury Statistics & Standards](#)
- [Crash Testing an Ambulance](#)
- [Patient Compartment Seating & Restraint](#)
- [Patient Cot, Cot Mount and Patient Restraint](#)
- [Equipment Mount and Storage Device Testing](#)
- [Building a Stronger Patient Compartment](#)
- [Using the Ambulance Patient Compartment Human Factors Design Guidebook](#)

For his work on the series, NIOSH safety engineer James Green earned the Digital Health Award from the Health Information Resource Center.

In related work, NIOSH expanded its extensive portfolio of guidance for first responders and other emergency workers with the [ERHMS Info Manager™ User Guide](#). A companion to the free software ERHMS Info Manager™, the user guide helps organizations implement and use the software to track and monitor all worker activities before, during, and after an emergency response.

Mining Safety and Health



Source: NIOSH

A coal miner undergoes a spirometry test to measure how well his lungs work.

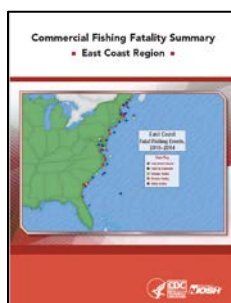
Addressing respiratory risks among coal miners, NIOSH published [research](#) in the journal *Occupational & Environmental Medicine* highlighting the need for regular testing for black lung disease among coal miners. The research showed that many coal miners with normal chest imaging, or radiography, tests subsequently developed severe lung disease from coal dust exposure within 21 years, with some developing it in as little as 10 years.

At the same time, few coal miners exercised their right, known as the [Part 90 Option](#), to request a job transfer to avoid lung disease related to coal dust exposure, according to a related NIOSH [study](#). Of the 3,547 coal miners eligible during 1981–2016, only 509, or 14.4%, exercised this option, researchers reported in the study published in the *Archives of Environmental and Occupational Health*.

To identify some of the hidden costs of injuries among mine workers, NIOSH released a web application based on a decade of Ohio workers' compensation claims. [Safety Pays in Mining](#) calculates the costs of the most common injuries that occur among this group of workers.

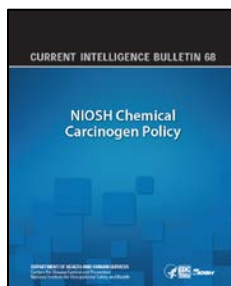
Fifty Years of Respiratory Research

To commemorate a half century of respiratory research, in the summer of 2017 the NIOSH Respiratory Health Division held a joint celebration with the West Virginia University Occupational Medicine Training Program, a long-time partner celebrating its first 25 years.



Fishing Safety and Health

Commercial fishing is one of the country's most dangerous occupations. To understand and prevent risks to workers, NIOSH updated its series of regional summaries of commercial fishing fatalities for the United States. [Commercial Fishing Fatality Summaries](#) now contain information from 2010 to 2014, which are the most recent years with data available on deadly fishing and vessel disasters in four regions: Alaska, the West Coast, the East Coast, and the Gulf of Mexico.



Chemical Safety and Health

Turning its attention to chemical exposures, NIOSH published a revised version of the *NIOSH Chemical Carcinogen Policy*. The policy remained largely the same, however the document now explains the methodology behind calculating the cancer-causing risk associated with low chemical exposures. Another new addition is a section affirming the analytical methods from the Occupational Safety and Health Administration to identify the Risk Management Limit for Carcinogens.

Technological Safety and Health

In the high-tech arena, NIOSH focused on the increasing numbers of robots entering the workplace. Always at the forefront of national efforts to protect workers, NIOSH launched a new Center for



Source: NIOSH Web

Occupational Robotics Research to understand and minimize the risks that arise when robots work alongside humans. Tasked with studying the benefits and risks of occupational robots, the new center will translate research findings into practice with guidance for interacting with robots in the workplace.

Work-life Safety and Health

Workplace safety and health do not exist in a vacuum. Lifestyle and other outside factors often profoundly affect workplace safety and health, which, in turn, affect overall health. Through Total Worker Health® and other programs, NIOSH studies these interrelationships.

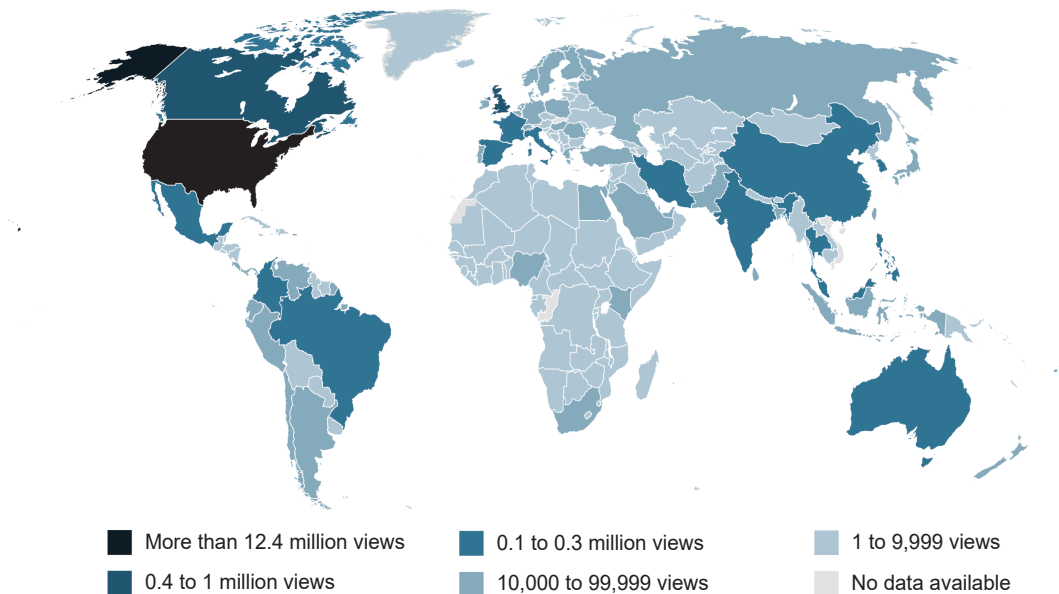
In a new development last year, NIOSH convened an interdivisional work group to explore the potential effects on worker safety and health of the devastating opioid epidemic wreaking havoc across the country. Although still in its infancy, the work group is available as a resource to scientists interested in studying this increasingly critical area of occupational safety and health.

NIOSH also expanded its emphasis on work-life balance by focusing on the prevalent health issue of inadequate sleep among the nation’s workers. An article reporting on NIOSH research, “[Short Sleep Duration by Occupation Group — 29 States, 2013–2014](#),” used information from the 2013–2014 Behavioral Risk Factor Surveillance System to calculate the average sleep duration among workers in 93 occupational groups and 29 states. The article appeared in the CDC journal, *Morbidity and Mortality Weekly Report*.

NIOSH Web

At a time when printed publications have been supplanted by electronic products, the NIOSH website has become the backbone of NIOSH communications to workers, industry, stakeholders, and lawmakers. The NIOSH website is also heavily accessed around the world, as shown in Figure 4.

Figure 4. NIOSH Web Views, 2017



Source: NIOSH web analytics

Table I: Journals Publishing NIOSH Articles in 2017

Rank	Top Journals Ranked by Number of NIOSH Articles Published	No.
1	Journal of Occupational and Environmental Hygiene	31
2	Journal of Occupational and Environmental Medicine	22
3	Morbidity and Mortality Weekly Report	15
4	American Journal of Industrial Medicine	10
	Journal of Safety Research Mining Engineering	
5	Annals of Work Exposures and Health	8
	Occupational and Environmental Medicine	
6	International Journal of Industrial Ergonomics	5
	International Journal of Mining Science and Technology	
	Journal of Exposure Science and Environmental Epidemiology	
	Radiation Protection Dosimetry Toxicology and Applied Pharmacology	
7	American Journal of Infection Control	4
	American Journal of Preventive Medicine	
	Annals of the American Thoracic Society	
	Environmental Health Perspectives	
	Inhalation Toxicology NanoImpact Nanotoxicology	
8	Annals of Epidemiology	3
	Atmospheric Environment	
	Journal of Toxicology and Environmental Health, Part A: Current Issues	
	Risk Analysis	
	Safety and Health at Work Scientific Reports	

Journals Publishing Two Articles

Accident Analysis and Prevention • ACS Nano • American Journal of Public Health • Applied Ergonomics • Biochimica et Biophysica Acta—General Subjects • Biomedical Engineering: Applications • Basis and Communications • BMJ Open • Carbon • Disaster Medicine and Public Health Preparedness • Environmental Earth Sciences • Environmental Science: Nano • Ergonomics • European Respiratory Journal • High Altitude Medicine and Biology • International Journal of Environmental Research and Public Health • Journal of Aerosol Science • Journal of Agromedicine • Journal of Environmental Health • Journal of Immunotoxicology • Journal of Neurochemistry • Journal of Oncology Pharmacy Practice • Regulatory Toxicology and Pharmacology • Social Science and Medicine • The Synergist

Journals Publishing One Article

ACS Applied Materials and Interfaces • ACS Sensors • Advanced Powder Technology • Aerosol and Air Quality Research • Aerospace Medicine and Human Performance • Aggregates Manager • American Journal of Human Biology • American Journal of Respiratory and Critical Care Medicine • American Mineralogist • Analytical Chemistry • Anatolian Journal of Cardiology • Archives of Environmental & Occupational Health • Archives of Toxicology •

Atmosphere • Bio-Medical Materials and Engineering • Biometrika • BMC Musculoskeletal Disorders • BMC Public Health • Brain, Behavior, and Immunity • Brazilian Journal of Otorhinolaryngology • Chemical Research in Toxicology • Chemosphere • Chronobiology International • Circulation: Cardiovascular Quality and Outcomes • Clinical Infectious Diseases • Coal Age • Cochrane Database of Systematic Reviews • Compendium of Continuing Education in Dentistry • Critical Reviews in Toxicology • Drug and Chemical Toxicology • Energy Procedia • Environment International • Environmental Health: A Global Access Science Source • Environmental Monitoring and Assessment • Environmental Science and Technology • Environmental Science: Processes & Impacts • European Medical Journal, Allergy & Immunology • European Respiratory Review • Exercise and Sport Sciences Reviews • Experimental Lung Research • Firehouse • Food and Chemical Toxicology • Frontiers in Public Health • Health Security • IEEE Antennas and Wireless Propagation Letters • IEEE Sensors Journal • IEEE Transactions on Antennas and Propagation • IEEE Transactions on Intelligent Transportation Systems • Indoor Air • Industrial Health • International Archives of Occupational and Environmental Health • International Biodeterioration & Biodegradation • International Journal of Audiology • International Journal of Cancer • International Journal of Coal Science & Technology • International Journal of Engine Research • International Journal of Environmental Analytical Chemistry • International Journal of Hygiene and Environmental Health • International Journal of Intercultural Relations • Journal of Allergy and Clinical Immunology • Journal of Alzheimer's Disease • Journal of Applied Security Research • Journal of Asthma • Journal of Atmospheric Chemistry • Journal of Biomechanics • Journal of Chromatography A • Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences • Journal of Clinical Monitoring and Computing • Journal of Construction Engineering and Management • Journal of Controlled Release • Journal of Emergency Management • Journal of Healthcare Protection Management • Journal of Nanoparticle Research • Journal of Nursing Education and Practice • Journal of Oncology Practice • Journal of Rehabilitation • Journal of Sport Rehabilitation • Journal of the Acoustical Society of America • Journal of the American Medical Association • Journal of the American Society of Hypertension • Journal of the American Veterinary Medical Association • Journal of the International Society for Respiratory Protection • Journal of Thermal Science and Engineering Applications • Journal of Transportation Technologies • Lancet Oncology • Medical Engineering & Physics • Metabolism: Clinical and Experimental • Mining People Magazine • Molecular Cancer • Morbidity and Mortality Weekly Report: Summary of Notifiable Noninfectious Conditions and Disease Outbreaks—United States • Morbidity and Mortality Weekly Report: Surveillance Summaries • Mutation Research • Nanomaterials • Neurotoxicology • Neurotoxicology and Teratology • New Solutions: A Journal of Environmental and Occupational Health Policy • Nursing Education Perspectives • Nursing Outlook • Particle and Fibre Toxicology • Police Chief • Policing: An International Journal of Police Strategies and Management • Powder Technology • Prehospital Emergency Care • Procedia Engineering • Proceedings of the Institution of Mechanical Engineers • Proceedings of the National Academy of Sciences of the United States of America • Progress in Electromagnetics Research C • Psychological Trauma: Theory, Research, Practice, and Policy • Psychoneuroendocrinology • Public Library of Science One • Radiation Research • Radio Science • Radiology • Rejuvenation Research • Rock Products • Safety Science • Scandinavian Journal of Work, Environment and Health • Science and Technology for the Built Environment • Science of the Total Environment • Seminars in Hearing • SSM—Population Health • Stress and Health • Substance Use and Misuse • The Hearing Journal • The Journals of Gerontology Series B: Psychological Sciences and Social Sciences • Theoretical Issues in Ergonomics Science • Thorax • Toxicology • Toxicology Reports • Viruses • Water, Air and Soil Pollution • Workplace Health & Safety • Xenobiotica

SOURCE: NIOSHTIC-2 BIBLIOGRAPHIC DATABASE

Table II: Top 200 Keywords Used in 2017 NIOSH Products, By Rank

1. Exposure levels	219	68. Mortality rates	36	Coal dust	22
2. Risk factors	173	Partnership	36	Coal miners	22
3. Humans	153	70. Bronchial asthma	35	Health care workers	22
4. Workers	135	71. Carbon nanotubes	34	Nanotubes	22
5. Exposure assessment	129	Lung disease	34	139. Ground control	21
6. Mining industry	113	Performance capability	34	Humidity	21
7. Work environment	104	Teaching	34	Mathematical models	21
8. Surveillance	103	Ventilation	34	Occupational health	21
9. Injury prevention	102	76. Demographic characteristics	33	Personal protection	21
10. Mining	100	Equipment reliability	33	Proteins	21
11. Training	97	Measurement equipment	33	Region 5	21
12. Laboratory animals	89	Nanomaterials	33	Rock mechanics	21
13. Laboratory testing	86	Public health	33	Standards	21
14. Underground mines	82	81. Behavior	32	Toxins	21
15. Injuries	81	Engineering controls	32	149. Agriculture	20
16. Models	76	Questionnaires	32	Airborne particles	20
18. Toxicology	76	Emergency responders	31	Biological effects	20
18. Statistical analysis	74	Health surveys	31	Environmental monitoring	20
19. Education	72	Immune system	31	Health care personnel	20
Hazards	72	Inhalation	31	Health programs	20
Pulmonary system disorders	72	Longwall mining	31	In vitro study	20
Respiratory system disorders	72	89. Fatalities	30	Medical research	20
23. Health effects	69	Miners	30	Respirators	20
24. Health hazards	67	Ventilation systems	30	Silica	20
25. Safety education	64	92. Chemical properties	29	Skin	20
26. Nanotechnology	63	Fire fighters	29	Task performance	20
27. Accident prevention	59	Performance tests	29	149. Work practices	20
28. Animals	58	Toxic effects	29	Agricultural industry	19
Personal protective equipment	58	96. Age groups	28	Chemical hazards	19
30. Disease prevention	57	Communication systems	28	Computer software	19
Occupational safety programs	57	Environmental exposure	28	Dust control	19
Worker health	57	Heat	28	Lung function	19
33. Men	55	Mortality data	28	MSD	19
Occupational hazards	55	Motor vehicles	28	Musculoskeletal system disorders	19
Women	55	Racial factors	28	Preventive medicine	19
36. Underground mining	54	Risk assessment	28	Protective measures	19
37. Safety research	53	Skin exposure	28	Regression analysis	19
38. Sampling	52	105. Air sampling	27	Regulations	19
39. Monitoring systems	51	In vivo study	27	Sensors	19
40. Occupational health programs	50	Nanotoxicology	27	Systematic reviews	19
Occupations	50	Surveillance programs	27	Toxic materials	19
42. Coal mines	49	109. Aerosols	26	176. Analytical instruments	18
Equipment testing	49	Dust exposure	26	Biomarkers	18
Pulmonary system	49	Exposure limits	26	Drugs	18
Safety	49	Gases	26	Environmental control	18
46. Particulates	48	Morbidity rates	26	Farmers	18
47. Lung	47	Recommendations	26	Ground monitoring	18
48. Occupational exposure	45	115. Analytical processes	25	Heat stress	18
49. Coal mining	44	Cellular effects	25	Mining equipment	18
Dusts	44	Cellular reactions	25	Monitors	18
Employee exposure	44	Particle size	25	Multi walled carbon nanotubes	18
Immune reaction	44	119. Accident analysis	24	Police officers	18
53. Epidemiology	43	Accidents	24	187. Carbon dioxide	17
Respirable dust	43	Asthma	24	Carbon monoxide	17
Safety measures	43	Nanoparticles	24	Construction	17
56. Safety practices	42	Safety programs	24	Diseases	17
Traumatic injuries	42	124. Biological systems	23	Disinfectants	17
58. Equipment design	41	Control technology	23	Environmental factors	17
59. Worker safety	40	Crystalline silica	23	Environmental technology	17
60. Adolescents	38	Cytokines	23	Families	17
Analytical models	38	Emergency equipment	23	Filters	17
Cancer	38	Ground stability	23	Industrial hygiene	17
63. Dose response	37	Lung cells	23	Metals	17
Health care	37	Pulmonary effects	23	MWCNT	17
Information dissemination	37	132. Air flow	22	Occupational asthma	17
Intervention	37	Airborne particulates	22	Refuge chambers	17
Lung disorders	37	Carcinogens	22		

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Journal Articles

NOTE: The *NIOSH Bibliography of Communication and Research Products* offers links to the NIOSHTIC-2 Bibliographic Database or online articles. Clicking on a page number in the indexes takes you to the product reference in this guide. [Blue type](#) shows links you can follow.

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NIOSHTIC-2: 20050122 | NORA: Mining

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NIOSHTIC-2: 20050123 | NORA: Mining

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NIOSHTIC-2: 20049561 | NORA: Mining

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NIOSHTIC-2: 20049564 | NORA: Mining

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NIOSHTIC-2: 20050049 | NORA: Mining

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NIOSHTIC-2: 20049548 | NORA: Mining

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NIOSHTIC-2: 20050032 | NORA: Mining

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NIOSHTIC-2: 20050828

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NIOSHTIC-2: 20050827

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NIOSHTIC-2: 20050046 | NORA: Mining

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NIOSHTIC-2: 20050048 | NORA: Mining

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NIOSH TIC-2: 20049471 | NORA: Construction

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NIOSH TIC-2: 20050427 | NORA: Mining

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NIOSH TIC-2: 20050050 | NORA: Mining

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NIOSH TIC-2: 20049563 | NORA: Mining

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NIOSH TIC-2: 20050641 | NORA: Mining

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NIOSH TIC-2: 20050422 | NORA: Mining

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NIOSHTIC-2: [20050057](#) | NORA: Mining

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NIOSHTIC-2: [20050059](#) | NORA: Mining

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NIOSHTIC-2: [20049579](#)

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