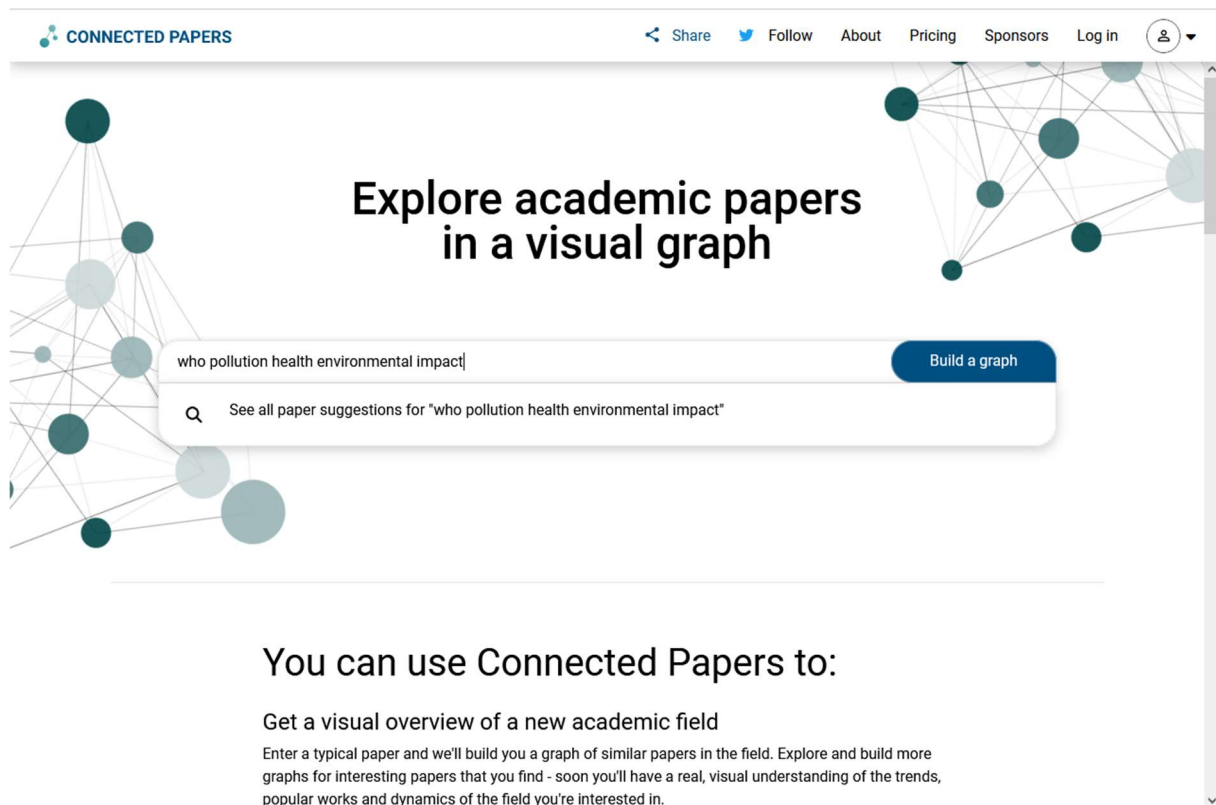


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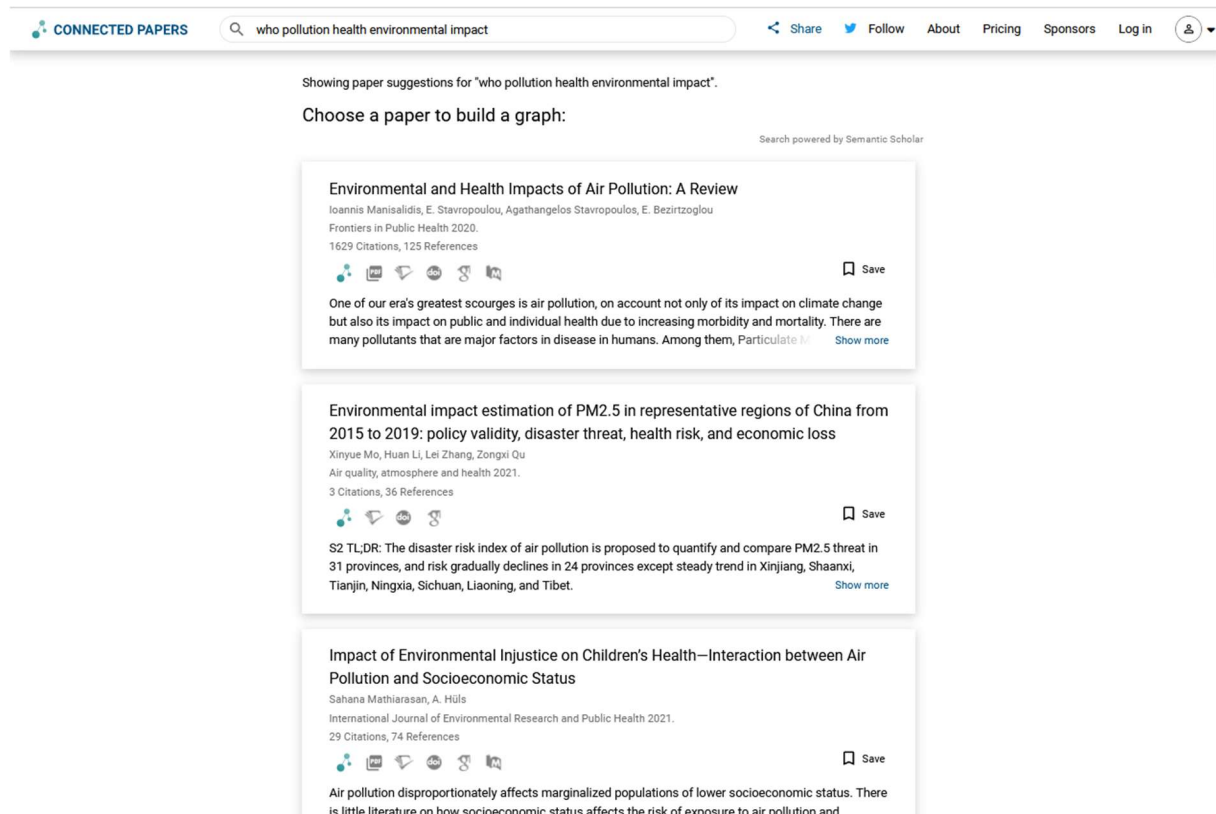
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Environmental and Health Impacts of Air Pollution: A Review
Ioannis Manisalidis, E. Stavropoulou, Agathangelos Stavropoulos, E. Bezirtzoglou
Frontiers in Public Health 2020.
1629 Citations, 125 References

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One of our era's greatest scourges is air pollution, on account not only of its impact on climate change but also its impact on public and individual health due to increasing morbidity and mortality. There are many pollutants that are major factors in disease in humans. Among them, Particulate Matter (PM) is a major concern. This review discusses the environmental and health impacts of air pollution, focusing on the most common pollutants: particulate matter, nitrogen dioxide, sulfur dioxide, and ozone. It also discusses the impact of air pollution on climate change and the role of air quality in public health. The review concludes that air pollution is a major public health problem and that it is essential to take action to reduce air pollution levels.

Environmental impact estimation of PM2.5 in representative regions of China from 2015 to 2019: policy validity, disaster threat, health risk, and economic loss
Xinyue Mo, Huan Li, Lei Zhang, Zongxi Qu
Air quality, atmosphere and health 2021.
3 Citations, 36 References

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S2 TLR: The disaster risk index of air pollution is proposed to quantify and compare PM2.5 threat in 31 provinces, and risk gradually declines in 24 provinces except steady trend in Xinjiang, Shaanxi, Tianjin, Ningxia, Sichuan, Liaoning, and Tibet.

Impact of Environmental Injustice on Children's Health—Interaction between Air Pollution and Socioeconomic Status
Sahana Mathiarasan, A. Hüls
International Journal of Environmental Research and Public Health 2021.
29 Citations, 74 References

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Air pollution disproportionately affects marginalized populations of lower socioeconomic status. There is little literature on how socioeconomic status affects the risk of exposure to air pollution and

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Parameters Analysis of Air with Modified Critic Method
 R. Bhardwaj, S. Garg 2022

Effects of air pollution on human health and practical measures for prevention in Iran
 A. Ghorani-Azam, B. Riahi-Zanjani, M. Balali-Mood 2016

Air Pollutants and Neurological Disorders: From Exposure to Preventive Interventions
 T. Mallhi, M. H. Butt, Abrar Ahmad, Shahzadi... 2021

Prediction of Air Pollution by Comparative Analysis of Statistical Methods
 Ch.M.H. Saibaba, Ch. Mahimanvitha, Praveen... 2022

Environmental Pollution, Its Causes and Impact on Ecosystem
 S. Negi, Smriti Batoye, Kunal Singh, Jaskaran Sing... 2021

Understanding the Status of Important Criteria Air Pollutants and Its Health Effects – A Review
 Christeena Varghese, Lingaraju H G, Shankramma... 2022

Air pollution: mechanisms of neuroinflammation and CNS disease
 M. Block, L. Calderón-Garcidueñas 2009

The Impacts of Air Pollution on Human Health and Well-Being: A Comprehensive Review
 Hiba Gul, Bijay Kumar Das 2023

Health Effects of Ambient Air Pollution in Developing Countries
 P. Mannucci, M. Franchini 2017

Environmental and Health Impacts of Air Pollution: A Review
 Ioannis Manisalidis + 2 authors | E. Beztirtzoglou
 2020, Frontiers in Public Health
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One of our era's greatest scourges is air pollution, on account not only of its impact on climate change but also its impact on public and individual health due to increasing morbidity and mortality. There are many pollutants that are major factors in disease in humans. Among them, Particulate Matter (PM), particles of variable but very small diameter, penetrate the respiratory system via inhalation, causing respiratory and cardiovascular diseases, reproductive and central nervous system dysfunctions, and cancer. Despite the fact that ozone in the stratosphere plays a protective role against ultraviolet irradiation, it is harmful when in high concentration at ground level, also affecting the respiratory and cardiovascular system. Furthermore, nitrogen dioxide, sulfur dioxide, Volatile Organic Compounds (VOCs), dioxins, and polycyclic aromatic hydrocarbons (PAHs) are all considered air pollutants that are harmful to humans. Carbon monoxide can even provoke direct poisoning when breathed in at high levels. Heavy metals such as lead, when absorbed into the human body, can lead to direct poisoning or chronic intoxication, depending on exposure. Diseases occurring from the aforementioned substances include principally respiratory problems such as Chronic Obstructive Pulmonary Disease (COPD), asthma, bronchitis, and also lung cancer, cardiovascular events, central nervous system

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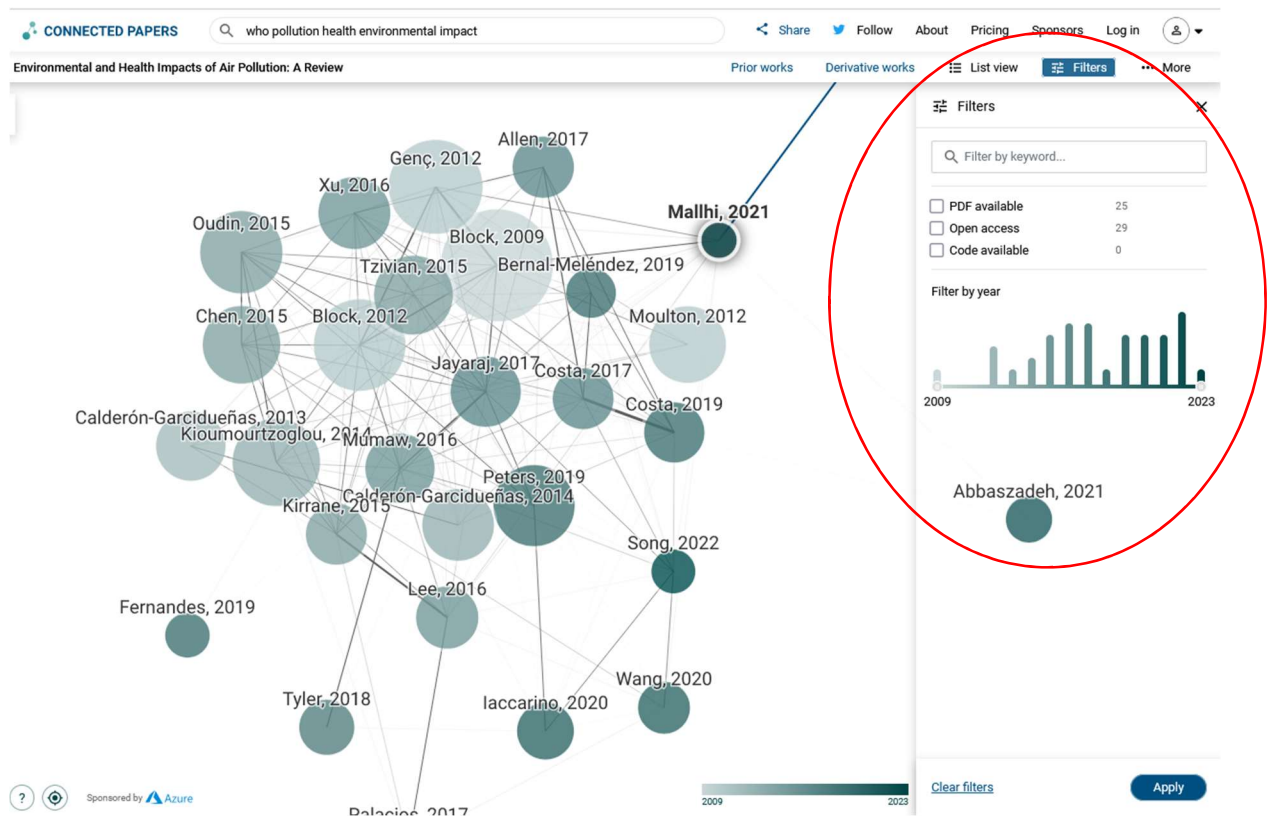
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S2 TLDR: Several animal, human, and cell culture studies have demonstrated the relationship of air pollutants with neuroinflammation, CNS oxidative stress, neuron damage, blood-brain barrier changes, and cerebrovascular damage.

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Long-term Air Pollution Exposure Is Associated with Neuroinflammation, an Altered Innate Immune Response, Disruption of the Blood-Brain Barrier, Ultrafine Particulate Deposition, and...	W. Reed	2008	702	27
Diesel Exhaust Activates and Primes Microglia: Air Pollution, Neuroinflammation, and Regulation of Dopaminergic Neurotoxicity	M. Block	2011	284	16
Long-term exposure to traffic-related particulate matter impairs cognitive function in the elderly.	U. Krämer	2009	348	16
Air pollution & the brain: Subchronic diesel exhaust exposure causes neuroinflammation and elevates early markers of neurodegenerative disease	M. Block	2011	275	15
Brain Inflammation and Alzheimer's-Like Pathology in Individuals Exposed to Severe Air Pollution	J. Swenberg	2004	496	14
Air Pollution and Brain Damage	B. Rewcastle	2002	419	13
Air pollution, cognitive deficits and brain abnormalities: A pilot study with children and dogs	R. Engle	2008	477	13
Urban air pollution: influences on olfactory function and pathology in exposed children and young adults.	R. Doty	2010	259	13
Exposure to particulate air pollution and cognitive decline in older women.	F. Grodstein	2011	450	12
Traffic-Related Air Pollution and Cognitive Function in a Cohort of Older Men	J. Schwartz	2010	391	12

Air Pollutants and Neurological Disorders: From Exposure to Preventive Interventions
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S2 TL;DR: Several animal, human, and cell culture studies have demonstrated the relationship of air pollutants with neuroinflammation, CNS oxidative stress, neuron damage, blood-brain barrier changes, and cerebrovascular damage.

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Title	Last author	Year	Citations	Graph references
Effects of air pollution on the nervous system and its possible role in neurodevelopmental and neurodegenerative disorders.	Jacqueline M Garrick	2020	159	13
Traffic-Related Air Pollution and Neurodegenerative Diseases: Epidemiological and Experimental Evidence, and Potential Underlying Mechanisms	L. Costa	2017	8	13
Exposure to low-dose ambient fine particulate matter PM2.5 and Alzheimer's disease, non-Alzheimer's dementia, and Parkinson's disease in North Carolina	H. Lyerly	2021	32	9
A critical review of the epidemiological evidence of effects of air pollution on dementia, cognitive function and cognitive decline in adult population.	S. Love	2020	83	9
The Air We Breathe: Air Pollution as a Prevalent Proinflammatory Stimulus Contributing to Neurodegeneration	I. Nalepa	2021	37	8
Ambient fine particulate matter exposure and incident mild cognitive impairment and dementia	M. Ganguli	2021	13	8
Neurotoxicity of air pollution: Role of neuroinflammation	Jacqueline M Garrick	2019	4	8
Particulate matter exposure and neurodegenerative diseases: A comprehensive update on toxicity and mechanisms.	Changjong Moon	2023	0	7
Progress in Mechanisms, Pathways and Cohort Studies About the Effects of PM _{2.5} Exposure on the Central Nervous System	Zekuan Yu	2023	0	7
Impact of long-term air pollution exposure on incidence of neurodegenerative diseases: A protocol for a systematic review and exposure-response meta-analysis.	C. Brayne	2022	7	7

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S2 TLDR: Several animal, human, and cell culture studies have demonstrated the relationship of air pollutants with neuroinflammation, CNS oxidative stress, neuron damage, blood-brain barrier changes, and cerebrovascular damage.