

# Junji Cao

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

709  
papers

34,644  
citations

86  
h-index

161  
g-index

771  
ext. papers

42,147  
ext. citations

6.7  
avg, IF

7.65  
L-index

#	Paper	IF	Citations
709	The Chinese Carbon-Neutral Goal: Challenges and Prospects.. <i>Advances in Atmospheric Sciences</i> , <b>2022</b> , 1-10	2.9	4
708	Real-time chemical composition of ambient fine aerosols and related cytotoxic effects in human lung epithelial cells in an urban area.. <i>Environmental Research</i> , <b>2022</b> , 112792	7.9	0
707	Source profiles of molecular structure and light absorption of PM brown carbon from residential coal combustion emission in Northwestern China.. <i>Environmental Pollution</i> , <b>2022</b> , 118866	9.3	0
706	Tuning the nitrogen contents in carbon matrix encapsulating Co nanoparticles for promoting formaldehyde removal through Mott-Schottky effect. <i>Applied Surface Science</i> , <b>2022</b> , 583, 152552	6.7	2
705	Emission characteristics and formation mechanisms of PM2.5 and gases from different geological maturities coals combustion. <i>Fuel</i> , <b>2022</b> , 315, 123240	7.1	1
704	Explorations of tire and road wear microplastics in road dust PM at eight megacities in China.. <i>Science of the Total Environment</i> , <b>2022</b> , 153717	10.2	1
703	Chromophoric dissolved organic carbon cycle and its molecular compositions and optical properties in precipitation in the Guanzhong basin, China.. <i>Science of the Total Environment</i> , <b>2022</b> , 814, 152775	10.2	1
702	Inflammatory and oxidative stress responses of healthy elders to solar-assisted large-scale cleaning system (SALSCS) and changes in ambient air pollution: A quasi-interventional study in Xi'an, China. <i>Science of the Total Environment</i> , <b>2022</b> , 806, 151217	10.2	1
701	Seasonal and diurnal variation of PM2.5 HULIS over Xi'an in Northwest China: Optical properties, chemical functional group, and relationship with reactive oxygen species (ROS). <i>Atmospheric Environment</i> , <b>2022</b> , 268, 118782	5.3	2
700	The mediating role of vascular inflammation in traffic-related air pollution associated changes in insulin resistance in healthy adults. <i>International Journal of Hygiene and Environmental Health</i> , <b>2022</b> , 239, 113878	6.9	0
699	Optical properties of mountain primary and secondary brown carbon aerosols in summertime. <i>Science of the Total Environment</i> , <b>2022</b> , 806, 150570	10.2	2
698	Exploring the photocatalytic conversion mechanism of gaseous formaldehyde degradation on TiO <sub>2</sub> -OV surface. <i>Journal of Hazardous Materials</i> , <b>2022</b> , 424, 127217	12.8	6
697	Comparison of analytical sensitivity and efficiency for SARS-CoV-2 primer sets by TaqMan-based and SYBR Green-based RT-qPCR.. <i>Applied Microbiology and Biotechnology</i> , <b>2022</b> , 106, 2207	5.7	1
696	Variations of Personal Exposure to Particulate Nitrated Phenols from Heating Energy Renovation in China: The First Assessment on Associated Toxicological Impacts with Particle Size Distributions.. <i>Environmental Science &amp; Technology</i> , <b>2022</b> ,	10.3	1
695	Evaluating heavy metals contamination in campus dust in Wuhan, the university cluster in Central China: distribution and potential human health risk analysis. <i>Environmental Earth Sciences</i> , <b>2022</b> , 81, 1	2.9	1
694	Transport Patterns and Potential Sources of Atmospheric Pollution during the XXIV Olympic Winter Games Period.. <i>Advances in Atmospheric Sciences</i> , <b>2022</b> , 1-15	2.9	0
693	Response of aerosol composition to the clean air actions in Baoji city of Fen-Wei River Basin.. <i>Environmental Research</i> , <b>2022</b> , 210, 112936	7.9	1

692	Insights into the day-night sources and optical properties of coastal organic aerosols in southern China.. <i>Science of the Total Environment</i> , <b>2022</b> , 830, 154663	10.2	0
691	Emission characteristics and cytotoxic effects of PM2.5 from residential semi-coke briquette combustion. <i>Fuel</i> , <b>2022</b> , 321, 123998	7.1	0
690	Morphology and mineralogical composition of sandblasting dust particles from the Taklimakan Desert.. <i>Science of the Total Environment</i> , <b>2022</b> , 155315	10.2	0
689	Diurnal Variations of Isoprene, Monoterpenes, and Toluene Oxidation Products in Aerosols at a Rural Site of Guanzhong Plain, Northwest China. <i>Atmosphere</i> , <b>2022</b> , 13, 634	2.7	
688	Emission profiles of volatile organic compounds from various geological maturity coal and its clean coal briquetting in China. <i>Atmospheric Research</i> , <b>2022</b> , 274, 106200	5.4	1
687	The seasonal variation, characteristics and secondary generation of PM in Xi'an, China, especially during pollution events.. <i>Environmental Research</i> , <b>2022</b> , 212, 113388	7.9	0
686	Seasonal variation of optical properties and source apportionment of black and brown carbon in Xi'an, China. <i>Atmospheric Pollution Research</i> , <b>2022</b> , 13, 101448	4.5	0
685	Molecular compositions, optical properties, and implications of dissolved brown carbon in snow/ice on the Tibetan Plateau glaciers.. <i>Environment International</i> , <b>2022</b> , 164, 107276	12.9	1
684	Characteristics and health risks of parent, alkylated, and oxygenated PAHs and their contributions to reactive oxygen species from PM vehicular emissions in the longest tunnel in downtown Xi'an, China.. <i>Environmental Research</i> , <b>2022</b> , 113357	7.9	0
683	Optical properties, chemical functional group, and oxidative activity of different polarity levels of water-soluble organic matter in PM2.5 from biomass and coal combustion in rural areas in Northwest China. <i>Atmospheric Environment</i> , <b>2022</b> , 119179	5.3	0
682	Size distribution, community composition, and influencing factors of bioaerosols on haze and non-haze days in a megacity in Northwest China.. <i>Science of the Total Environment</i> , <b>2022</b> , 155969	10.2	0
681	Unraveling the Reaction Mechanism of HCHO Catalytic Oxidation on Pristine Co3O4 (110) Surface: A Theoretical Study. <i>Catalysts</i> , <b>2022</b> , 12, 560	4	
680	Emission factors of PM2.5-Bounded selected metals, organic carbon, elemental carbon, and water-soluble ionic species emitted from combustions of biomass materials for source ApportionmentA new database for 17 plant species. <i>Atmospheric Pollution Research</i> , <b>2022</b> , 13, 101453	4.5	0
679	Impact of reduced anthropogenic emissions on chemical characteristics of urban aerosol by individual particle analysis. <i>Chemosphere</i> , <b>2022</b> , 303, 135013	8.4	
678	Differential health and economic impacts from the COVID-19 lockdown between the developed and developing countries: Perspective on air pollution. <i>Environmental Pollution</i> , <b>2021</b> , 293, 118544	9.3	6
677	Chemical characteristics and sources of nitrogen-containing organic compounds at a regional site in the North China Plain during the transition period of autumn and winter. <i>Science of the Total Environment</i> , <b>2021</b> , 151451	10.2	1
676	Mixing state of refractory black carbon in fog and haze at rural sites in winter on the North China Plain. <i>Atmospheric Chemistry and Physics</i> , <b>2021</b> , 21, 17631-17648	6.8	1
675	Upward trend and formation of surface ozone in the Guanzhong Basin, Northwest China.. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 427, 128175	12.8	1

674	Ambient Air Purification by Nanotechnologies: From Theory to Application. <i>Catalysts</i> , <b>2021</b> , 11, 1276	4	2
673	FeCo alloy encased in nitrogen-doped carbon for efficient formaldehyde removal: Preparation, electronic structure, and d-band center tailoring. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 424, 127593	12.8	2
672	Constructing Pd/Ferroelectric Bi <sub>4</sub> Ti <sub>3</sub> O <sub>12</sub> Nanoflake Interfaces for O <sub>2</sub> Activation and Boosting NO Photo-oxidation. <i>Applied Catalysis B: Environmental</i> , <b>2021</b> , 302, 120876	21.8	4
671	Profiles and Source Apportionment of Nonmethane Volatile Organic Compounds in Winter and Summer in Xi'an, China, based on the Hybrid Environmental Receptor Model. <i>Advances in Atmospheric Sciences</i> , <b>2021</b> , 38, 116-131	2.9	0
670	Spatially Resolved Emission Factors to Reduce Uncertainties in Air Pollutant Emission Estimates from the Residential Sector. <i>Environmental Science &amp; Technology</i> , <b>2021</b> , 55, 4483-4493	10.3	7
669	Spatiotemporal variation, sources, and secondary transformation potential of volatile organic compounds in Xi'an, China. <i>Atmospheric Chemistry and Physics</i> , <b>2021</b> , 21, 4939-4958	6.8	7
668	Sulfate formation is dominated by manganese-catalyzed oxidation of SO on aerosol surfaces during haze events. <i>Nature Communications</i> , <b>2021</b> , 12, 1993	17.4	47
667	Decreasing concentrations of carbonaceous aerosols in China from 2003 to 2013. <i>Scientific Reports</i> , <b>2021</b> , 11, 5352	4.9	2
666	Toxicological effects of personal exposure to fine particles in adult residents of Hong Kong. <i>Environmental Pollution</i> , <b>2021</b> , 275, 116633	9.3	2
665	Formaldehyde Oxidation over Co@N-Doped Carbon at Room Temperature: Tunable Co Size and Intensified Surface Electron Density. <i>ACS ES&amp;T Engineering</i> , <b>2021</b> , 1, 917-927		3
664	Brown Carbon in Primary and Aged Coal Combustion Emission. <i>Environmental Science &amp; Technology</i> , <b>2021</b> , 55, 5701-5710	10.3	9
663	Study on mitigation of automobile exhaust pollution in an urban street canyon: Emission reduction and air cleaning street lamps. <i>Building and Environment</i> , <b>2021</b> , 193, 107651	6.5	0
662	Reply to Hopke and Dai: The correlation between PM and combustion-derived water is unlikely driven by local residential coal combustion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,	11.5	0
661	Impacts of natural and socioeconomic factors on PM from 2014 to 2017. <i>Journal of Environmental Management</i> , <b>2021</b> , 284, 112071	7.9	17
660	Spatial distribution of PM-bound elements in eighteen cities over China: policy implication and health risk assessment. <i>Environmental Geochemistry and Health</i> , <b>2021</b> , 43, 4771-4788	4.7	2
659	Spatially explicit analysis identifies significant potential for bioenergy with carbon capture and storage in China. <i>Nature Communications</i> , <b>2021</b> , 12, 3159	17.4	14
658	Effects of Aerosol Water Content on the formation of secondary inorganic aerosol during a Winter Heavy PM <sub>2.5</sub> Pollution Episode in Xi'an, China. <i>Atmospheric Environment</i> , <b>2021</b> , 252, 118304	5.3	12
657	Loss of E-cadherin due to road dust PM activates the EGFR in human pharyngeal epithelial cells. <i>Environmental Science and Pollution Research</i> , <b>2021</b> , 28, 53872-53887	5.1	4

656	A paradigm shift to combat indoor respiratory infection. <i>Science</i> , <b>2021</b> , 372, 689-691	33.3	73
655	Air Pollution Zone Migrates South Driven by East Asian Winter Monsoon and Climate Change. <i>Geophysical Research Letters</i> , <b>2021</b> , 48, e2021GL092672	4.9	4
654	Impacts of primary emissions and secondary aerosol formation on air pollution in an urban area of China during the COVID-19 lockdown. <i>Environment International</i> , <b>2021</b> , 150, 106426	12.9	19
653	Diurnal Variations of Size-Resolved Bioaerosols During Autumn and Winter Over a Semi-Arid Megacity in Northwest China. <i>GeoHealth</i> , <b>2021</b> , 5, e2021GH000411	5	4
652	Current Status, Characteristics and Causes of Particulate Air Pollution in the Fenwei Plain, China: A Review. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2021</b> , 126, e2020JD034472	4.4	8
651	Brownness of Organic Aerosol over the United States: Evidence for Seasonal Biomass Burning and Photobleaching Effects. <i>Environmental Science &amp; Technology</i> , <b>2021</b> , 55, 8561-8572	10.3	2
650	Black Carbon and Secondary Brown Carbon, the Dominant Light Absorption and Direct Radiative Forcing Contributors of the Atmospheric Aerosols Over the Tibetan Plateau. <i>Geophysical Research Letters</i> , <b>2021</b> , 48, e2021GL092524	4.9	3
649	Characteristics and sources of hourly elements in PM and PM during wintertime in Beijing. <i>Environmental Pollution</i> , <b>2021</b> , 278, 116865	9.3	16
648	Post-fire co-stimulation of gross primary production and ecosystem respiration in a meadow grassland on the Tibetan Plateau. <i>Agricultural and Forest Meteorology</i> , <b>2021</b> , 303, 108388	5.8	1
647	Quantification of solid fuel combustion and aqueous chemistry contributions to secondary organic aerosol during wintertime haze events in Beijing. <i>Atmospheric Chemistry and Physics</i> , <b>2021</b> , 21, 9859-9886	6.8	6
646	Numerical study of SALSCS demonstration unit in Xi'an, China, with non-uniform solar irradiation. <i>International Journal of Heat and Mass Transfer</i> , <b>2021</b> , 173, 121211	4.9	0
645	Light absorption properties and molecular profiles of HULIS in PM emitted from biomass burning in traditional "Heated Kang" in Northwest China. <i>Science of the Total Environment</i> , <b>2021</b> , 776, 146014	10.2	4
644	Iron in the NEEM ice core relative to Asian loess records over the last glacial-interglacial cycle. <i>National Science Review</i> , <b>2021</b> , 8, nwa144	10.8	2
643	Mid-Holocene soil water and vegetation in the Xi'an area of the southern Chinese Loess Plateau. <i>Geoderma</i> , <b>2021</b> , 383, 114802	6.7	1
642	PM pollution in China's Guanzhong Basin and the USA's San Joaquin Valley mega-regions. <i>Faraday Discussions</i> , <b>2021</b> , 226, 255-289	3.6	1
641	Characteristics of indoor and personal exposure to particulate organic compounds emitted from domestic solid fuel combustion in rural areas of northwest China. <i>Atmospheric Research</i> , <b>2021</b> , 248, 105187	5.4	14
640	Chemical etching fabrication of uniform mesoporous Bi@Bi <sub>2</sub> O <sub>3</sub> nanospheres with enhanced visible light-induced photocatalytic oxidation performance for NO <sub>x</sub> . <i>Chemical Engineering Journal</i> , <b>2021</b> , 406, 126910	14.7	20
639	Comprehensive characterization and health assessment of occupational exposures to volatile organic compounds (VOCs) in Xi'an, a major city of northwestern China. <i>Atmospheric Environment</i> , <b>2021</b> , 246, 118085	5.3	6

638	High light absorption and radiative forcing contributions of primary brown carbon and black carbon to urban aerosol. <i>Gondwana Research</i> , <b>2021</b> , 90, 159-164	5.1	5
637	A comprehensive study on ozone pollution in a megacity in North China Plain during summertime: Observations, source attributions and ozone sensitivity. <i>Environment International</i> , <b>2021</b> , 146, 106279	12.9	7
636	The characteristics and sources of roadside VOCs in Hong Kong: Effect of the LPG catalytic converter replacement programme. <i>Science of the Total Environment</i> , <b>2021</b> , 757, 143811	10.2	4
635	Estimating Absorption Exponent of Black Carbon Aerosol by Coupling Multiwavelength Absorption with Chemical Composition. <i>Environmental Science and Technology Letters</i> , <b>2021</b> , 8, 121-127	11	5
634	Parent, alkylated, oxygenated and nitrated polycyclic aromatic hydrocarbons in PM emitted from residential biomass burning and coal combustion: A novel database of 14 heating scenarios. <i>Environmental Pollution</i> , <b>2021</b> , 268, 115881	9.3	19
633	Spatial distribution and sources of winter black carbon and brown carbon in six Chinese megacities. <i>Science of the Total Environment</i> , <b>2021</b> , 762, 143075	10.2	14
632	Biotoxic effects and gene expression regulation of urban PM in southwestern China. <i>Science of the Total Environment</i> , <b>2021</b> , 753, 141774	10.2	3
631	The formation and evolution of parent and oxygenated polycyclic aromatic hydrocarbons during a severe winter haze-fog event over Xi'an, China. <i>Environmental Science and Pollution Research</i> , <b>2021</b> , 28, 9165-9172	5.1	2
630	Measurement report: quantifying source contribution of fossil fuels and biomass-burning black carbon aerosol in the southeastern margin of the Tibetan Plateau. <i>Atmospheric Chemistry and Physics</i> , <b>2021</b> , 21, 973-987	6.8	4
629	Refined Source Apportionment of Atmospheric PM <sub>2.5</sub> in a Typical City in Northwest China. <i>Aerosol and Air Quality Research</i> , <b>2021</b> , 21, 200146	4.6	3
628	Characteristics of wintertime VOCs in urban Beijing: Composition and source apportionment. <i>Atmospheric Environment: X</i> , <b>2021</b> , 9, 100100	2.8	3
627	Insights into particulate matter pollution in the North China Plain during wintertime: local contribution or regional transport?. <i>Atmospheric Chemistry and Physics</i> , <b>2021</b> , 21, 2229-2249	6.8	5
626	Improved Oxygen Activation over a Carbon/CoO Nanocomposite for Efficient Catalytic Oxidation of Formaldehyde at Room Temperature. <i>Environmental Science &amp; Technology</i> , <b>2021</b> , 55, 4054-4063	10.3	24
625	PM <sub>2.5</sub> Elements in the Rural Area of Jing-Jin-Ji Region in China: Source Identification and Health Risk Assessment. <i>Aerosol Science and Engineering</i> , <b>2021</b> , 5, 429	1.6	1
624	Changes in Source-Specific Black Carbon Aerosol and the Induced Radiative Effects Due to the COVID-19 Lockdown. <i>Geophysical Research Letters</i> , <b>2021</b> , 48, e2021GL092987	4.9	0
623	Predicting the effect of confinement on the COVID-19 spread using machine learning enriched with satellite air pollution observations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,	11.5	4
622	Ozone Gas Inhibits SARS-CoV-2 Transmission and Provides Possible Control Measures. <i>Aerosol Science and Engineering</i> , <b>2021</b> , 5, 516	1.6	1
621	Environmental and health risks of VOCs in the longest inner-city tunnel in Xi'an, Northwest China: Implication of impact from new energy vehicles. <i>Environmental Pollution</i> , <b>2021</b> , 282, 117057	9.3	2

620	Revealing DeNO <sub>x</sub> and DeVOC Reactions via the Study of the Surface and Bandstructure of ZnSn(OH) <sub>6</sub> Photocatalysts. <i>Acta Materialia</i> , <b>2021</b> , 215, 117068	8.4	5
619	The Roles of N, S, and O in Molecular Absorption Features of Brown Carbon in PM <sub>2.5</sub> in a Typical Semi-Arid Megacity in Northwestern China. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2021</b> , 126, e2021JD034791	4.4	8
618	Combustion-derived particulate organic matter associated with hemodynamic abnormality and metabolic dysfunction in healthy adults. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 418, 126261	12.8	0
617	Transformation of amorphous Bi <sub>2</sub> O <sub>3</sub> to crystal Bi <sub>2</sub> O <sub>2</sub> CO <sub>3</sub> on Bi nanospheres surface for photocatalytic NO <sub>x</sub> oxidation: Intensified hot-electron transfer and reactive oxygen species generation. <i>Chemical Engineering Journal</i> , <b>2021</b> , 420, 129814	14.7	8
616	Polycyclic aromatic compounds (PAHs, oxygenated PAHs, nitrated PAHs, and azaarenes) in air from four climate zones of China: Occurrence, gas/particle partitioning, and health risks. <i>Science of the Total Environment</i> , <b>2021</b> , 786, 147234	10.2	1
615	Organic carbon and acidic ions in PM contributed to particle bioreactivity in Chinese megacities during haze episodes. <i>Environmental Science and Pollution Research</i> , <b>2021</b> , 1	5.1	0
614	Chemical source profiles of particulate matter and gases emitted from solid fuels for residential cooking and heating scenarios in Qinghai-Tibetan Plateau. <i>Environmental Pollution</i> , <b>2021</b> , 285, 117503	9.3	3
613	Emission factors, characteristics, and gas-particle partitioning of polycyclic aromatic hydrocarbons in PM emitted for the typical solid fuel combustions in rural Guanzhong Plain, China. <i>Environmental Pollution</i> , <b>2021</b> , 286, 117573	9.3	7
612	Assessment of the emission mitigation effect on the wintertime air quality in the Guanzhong Basin, China from 2013 to 2017. <i>Atmospheric Pollution Research</i> , <b>2021</b> , 12, 101196	4.5	2
611	Self-supporting smart air filters based on PZT/PVDF electrospun nanofiber composite membrane. <i>Chemical Engineering Journal</i> , <b>2021</b> , 423, 130247	14.7	6
610	The chemical composition and toxicological effects of fine particulate matter (PM) emitted from different cooking styles. <i>Environmental Pollution</i> , <b>2021</b> , 288, 117754	9.3	10
609	Oxidative stress-inducing effects of various urban PM road dust on human lung epithelial cells among 10 Chinese megacities. <i>Ecotoxicology and Environmental Safety</i> , <b>2021</b> , 224, 112680	7	2
608	Probing the historic thermal and humid environment in a 2000-year-old ancient underground tomb and enlightenment for cultural heritage protection and preventive conservation. <i>Energy and Buildings</i> , <b>2021</b> , 251, 111388	7	2
607	Comparative observation of atmospheric nitrous acid (HONO) in Xi'an and Xianyang located in the GuanZhong basin of western China. <i>Environmental Pollution</i> , <b>2021</b> , 289, 117679	9.3	0
606	Photochemical aging process on PM <sub>2.5</sub> bound PAHs emission from solid fuel combustion in traditional and improved stoves. <i>Atmospheric Research</i> , <b>2021</b> , 263, 105807	5.4	0
605	Improved photocatalytic activity of BaTiO <sub>3</sub> /La <sub>2</sub> Ti <sub>2</sub> O <sub>7</sub> heterojunction composites via piezoelectric-enhanced charge transfer. <i>Applied Surface Science</i> , <b>2021</b> , 570, 151146	6.7	5
604	Oxygen vacancy-dependent photocatalytic activity of well-defined Bi <sub>2</sub> Sn <sub>2</sub> O <sub>7</sub> hollow nanocubes for NO <sub>x</sub> removal. <i>Environmental Science: Nano</i> , <b>2021</b> , 8, 1927-1933	7.1	3
603	Highly time-resolved measurements of element concentrations in PM <sub>10</sub> and PM <sub>2.5</sub> : comparison of Delhi, Beijing, London, and Krakow. <i>Atmospheric Chemistry and Physics</i> , <b>2021</b> , 21, 717-730	6.8	11

602	Vapor isotopic evidence for the worsening of winter air quality by anthropogenic combustion-derived water. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> ,	11.5	9
601	Molecular Absorption and Evolution Mechanisms of PM2.5 Brown Carbon Revealed by Electrospray Ionization Fourier Transform Ion Cyclotron Resonance Mass Spectrometry During a Severe Winter Pollution Episode in Xi'an, China. <i>Geophysical Research Letters</i> , <b>2020</b> , 47, e2020GL087977	4.9	6
600	Recycled moisture in an enclosed basin, Guanzhong Basin of Northern China, in the summer: Contribution to precipitation based on a stable isotope approach. <i>Environmental Science and Pollution Research</i> , <b>2020</b> , 27, 27926-27936	5.1	6
599	g-C3N4/TiO2 Composite Film in the Fabrication of a Photocatalytic Air-Purifying Pavements. <i>Solar Rrl</i> , <b>2020</b> , 4, 2000170	7.1	10
598	Chemical nature and sources of fine particles in urban Beijing: Seasonality and formation mechanisms. <i>Environment International</i> , <b>2020</b> , 140, 105732	12.9	13
597	Changes in air quality related to the control of coronavirus in China: Implications for traffic and industrial emissions. <i>Science of the Total Environment</i> , <b>2020</b> , 731, 139133	10.2	131
596	Optical properties and molecular compositions of water-soluble and water-insoluble brown carbon (BrC) aerosols in northwest China. <i>Atmospheric Chemistry and Physics</i> , <b>2020</b> , 20, 4889-4904	6.8	14
595	How can airborne transmission of COVID-19 indoors be minimised?. <i>Environment International</i> , <b>2020</b> , 142, 105832	12.9	525
594	Origin and transformation of ambient volatile organic compounds during a dust-to-haze episode in northwest China. <i>Atmospheric Chemistry and Physics</i> , <b>2020</b> , 20, 5425-5436	6.8	6
593	Comprehensive Source Apportionment of Submicron Aerosol in Shijiazhuang, China: Secondary Aerosol Formation and Holiday Effects. <i>ACS Earth and Space Chemistry</i> , <b>2020</b> , 4, 947-957	3.2	2
592	Parent, alkylated, oxygenated and nitro polycyclic aromatic hydrocarbons from raw coal chunks and clean coal combustion: Emission factors, source profiles, and health risks. <i>Science of the Total Environment</i> , <b>2020</b> , 721, 137696	10.2	11
591	A Review of Co3O4-based Catalysts for Formaldehyde Oxidation at Low Temperature: Effect Parameters and Reaction Mechanism. <i>Aerosol Science and Engineering</i> , <b>2020</b> , 4, 147-168	1.6	2
590	Indoor, outdoor, and personal exposure to PM and their bioreactivity among healthy residents of Hong Kong. <i>Environmental Research</i> , <b>2020</b> , 188, 109780	7.9	11
589	Asian inland wildfires driven by glacial-interglacial climate change. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 5184-5189	11.5	11
588	Investigation of Primary and Secondary Particulate Brown Carbon in Two Chinese Cities of Xi'an and Hong Kong in Wintertime. <i>Environmental Science &amp; Technology</i> , <b>2020</b> , 54, 3803-3813	10.3	22
587	Quantifying the contributions of local emissions and regional transport to elemental carbon in Thailand. <i>Environmental Pollution</i> , <b>2020</b> , 262, 114272	9.3	8
586	Light absorption of brown carbon in PM2.5 in the Three Gorges Reservoir region, southwestern China: Implications of biomass burning and secondary formation. <i>Atmospheric Environment</i> , <b>2020</b> , 229, 117409	5.3	11
585	Black carbon and mineral dust on two glaciers on the central Tibetan Plateau: sources and implications. <i>Journal of Glaciology</i> , <b>2020</b> , 66, 248-258	3.4	6



584	Oxygen vacancy engineered MnO <sub>x</sub> /activated carbon for room-temperature catalytic oxidation of formaldehyde. <i>Applied Catalysis B: Environmental</i> , <b>2020</b> , 278, 119294	21.8	27
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541	Gaseous, PM <sub>2.5</sub> Mass, and Speciated Emission Factors from Laboratory Chamber Peat Combustion <b>2019</b> ,		1
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456	Short-Term Weather Patterns Modulate Air Quality in Eastern China During 2015-2016 Winter. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2019</b> , 124, 986-1002	4.4	5
455	Characterization of carbonaceous fractions in PM and PM over a typical industrial city in central China. <i>Environmental Science and Pollution Research</i> , <b>2019</b> , 26, 16855-16867	5.1	10
454	PM-bound polycyclic aromatic hydrocarbons (PAHs) in Beijing: Seasonal variations, sources, and risk assessment. <i>Journal of Environmental Sciences</i> , <b>2019</b> , 77, 11-19	6.4	68
453	Morphologies and elemental compositions of local biomass burning particles at urban and glacier sites in southeastern Tibetan Plateau: Results from an expedition in 2010. <i>Science of the Total Environment</i> , <b>2018</b> , 628-629, 772-781	10.2	10
452	Enhanced light absorption due to the mixing state of black carbon in fresh biomass burning emissions. <i>Atmospheric Environment</i> , <b>2018</b> , 180, 184-191	5.3	15
451	Synthesis of a Bi <sub>2</sub> O <sub>2</sub> CO <sub>3</sub> /ZnFe <sub>2</sub> O <sub>4</sub> heterojunction with enhanced photocatalytic activity for visible light irradiation-induced NO removal. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 234, 70-78	21.8	132
450	The linkages with fires, vegetation composition and human activity in response to climate changes in the Chinese Loess Plateau during the Holocene. <i>Quaternary International</i> , <b>2018</b> , 488, 18-29	2	8
449	A brief introduction and progress summary of the PM <sub>2.5</sub> source profile compilation project in China. <i>Aerosol Science and Engineering</i> , <b>2018</b> , 2, 43-50	1.6	4
448	Characterization of Gas-Phase Organics Using Proton Transfer Reaction Time-of-Flight Mass Spectrometry: Residential Coal Combustion. <i>Environmental Science &amp; Technology</i> , <b>2018</b> , 52, 2612-2619	19.3	23
447	Characteristics of Mass Absorption Efficiency of Elemental Carbon in Urban Chengdu, Southwest China: Implication for the Coating Effects on Aerosol Absorption. <i>Aerosol Science and Engineering</i> , <b>2018</b> , 2, 33-41	1.6	1
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445	Optical source profiles of brown carbon in size-resolved particulate matter from typical domestic biofuel burning over Guanzhong Plain, China. <i>Science of the Total Environment</i> , <b>2018</b> , 622-623, 244-251	10.2	35
444	Characterization of isoprene-derived secondary organic aerosols at a rural site in North China Plain with implications for anthropogenic pollution effects. <i>Scientific Reports</i> , <b>2018</b> , 8, 535	4.9	28
443	Light absorption properties of brown carbon over the southeastern Tibetan Plateau. <i>Science of the Total Environment</i> , <b>2018</b> , 625, 246-251	10.2	33
442	Oxygen vacancy engineering of Bi <sub>2</sub> O <sub>3</sub> /Bi <sub>2</sub> O <sub>2</sub> CO <sub>3</sub> heterojunctions: Implications of the interfacial charge transfer, NO adsorption and removal. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 231, 357-367	21.8	143
441	Seasonal variation and health risk assessment of atmospheric PM <sub>2.5</sub> -bound polycyclic aromatic hydrocarbons in a classic agglomeration industrial city, central China. <i>Air Quality, Atmosphere and Health</i> , <b>2018</b> , 11, 683-694	5.6	12



440	PM Source Apportionment Using a Hybrid Environmental Receptor Model. <i>Environmental Science &amp; Technology</i> , <b>2018</b> , 52, 6357-6369	10.3	19
439	Large contribution of fossil fuel derived secondary organic carbon to water soluble organic aerosols in winter haze in China. <i>Atmospheric Chemistry and Physics</i> , <b>2018</b> , 18, 4005-4017	6.8	32
438	Sources and physicochemical characteristics of black carbon aerosol from the southeastern Tibetan Plateau: internal mixing enhances light absorption. <i>Atmospheric Chemistry and Physics</i> , <b>2018</b> , 18, 4639-4658	6.8	32
437	Post-plasma-catalytic removal of toluene using MnO <sub>2</sub> /Co <sub>3</sub> O <sub>4</sub> catalysts and their synergistic mechanism. <i>Chemical Engineering Journal</i> , <b>2018</b> , 348, 15-25	14.7	95
436	Biocompatible FeOOH-Carbon quantum dots nanocomposites for gaseous NO removal under visible light: Improved charge separation and High selectivity. <i>Journal of Hazardous Materials</i> , <b>2018</b> , 354, 54-62	12.8	94
435	Divergent responses of ecosystem respiration components to livestock exclusion on the Qinghai Tibetan Plateau. <i>Land Degradation and Development</i> , <b>2018</b> , 29, 1726-1737	4.4	12
434	Biomass burning influences determination based on PM 2.5 chemical composition combined with fire counts at southeastern Tibetan Plateau during pre-monsoon period. <i>Atmospheric Research</i> , <b>2018</b> , 206, 108-116	5.4	7
433	Unraveling the mechanisms of room-temperature catalytic degradation of indoor formaldehyde and its biocompatibility on colloidal TiO <sub>2</sub> -supported MnO <sub>x</sub> /CeO <sub>2</sub> . <i>Environmental Science: Nano</i> , <b>2018</b> , 5, 1130-1139	7.1	17
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428	Source, health risk and composition impact of outdoor very fine particles (VFPs) to school indoor environment in Xi'an, Northwestern China. <i>Science of the Total Environment</i> , <b>2018</b> , 612, 238-246	10.2	31
427	Optical characteristics and source apportionment of brown carbon in winter PM <sub>2.5</sub> over Yulin in Northern China. <i>Atmospheric Research</i> , <b>2018</b> , 213, 27-33	5.4	33
426	Contributions of residential coal combustion to the air quality in Beijing-Tianjin-Hebei (BTH), China: a case study. <i>Atmospheric Chemistry and Physics</i> , <b>2018</b> , 18, 10675-10691	6.8	41
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424	Synthesis of SrFexTi <sub>1-x</sub> O <sub>3</sub> nanocubes with tunable oxygen vacancies for selective and efficient photocatalytic NO oxidation. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 239, 1-9	21.8	36
423	Visible-Light-Driven Nitrogen-Doped Carbon Quantum Dots/CaTiO <sub>3</sub> Composite Catalyst with Enhanced NO Adsorption for NO Removal. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2018</b> , 57, 10226-10233	3.9	24

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4 <sup>21</sup>	Global Survey of Antibiotic Resistance Genes in Air. <i>Environmental Science &amp; Technology</i> , <b>2018</b> , 52, 10975-10984	10.3	138
4 <sup>20</sup>	Emission Characteristics of PM <sub>2.5</sub> and Trace Gases from Household Wood Burning in Guanzhong Plain, Northwest China. <i>Aerosol Science and Engineering</i> , <b>2018</b> , 2, 130-140	1.6	8
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4 <sup>17</sup>	Differential responses of carbon-degrading enzyme activities to warming: Implications for soil respiration. <i>Global Change Biology</i> , <b>2018</b> , 24, 4816-4826	11.4	56
4 <sup>16</sup>	Personal exposure of PM <sub>2.5</sub> emitted from solid fuels combustion for household heating and cooking in rural Guanzhong Plain, northwestern China. <i>Atmospheric Environment</i> , <b>2018</b> , 185, 196-206	5.3	38
4 <sup>15</sup>	Indoor air pollutant exposure and determinant factors controlling household air quality for elderly people in Hong Kong. <i>Air Quality, Atmosphere and Health</i> , <b>2018</b> , 11, 695-704	5.6	19
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4 <sup>11</sup>	A keystone microbial enzyme for nitrogen control of soil carbon storage. <i>Science Advances</i> , <b>2018</b> , 4, eaag1689	16.9	94
4 <sup>10</sup>	Self-assembly synthesis of boron-doped graphitic carbon nitride hollow tubes for enhanced photocatalytic NO <sub>x</sub> removal under visible light. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 239, 352-361	21.8	97
4 <sup>09</sup>	Does afforestation deteriorate haze pollution in Beijing-Tianjin-Hebei (BTH), China?. <i>Atmospheric Chemistry and Physics</i> , <b>2018</b> , 18, 10869-10879	6.8	12
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4 <sup>07</sup>	Quantification of oxygenated polycyclic aromatic hydrocarbons in ambient aerosol samples using in-injection port thermal desorption-gas chromatography/mass spectrometry: Method exploration and validation. <i>International Journal of Mass Spectrometry</i> , <b>2018</b> , 433, 25-30	1.9	12
4 <sup>06</sup>	Effect of oligomerization reactions of Criegee intermediate with organic acid/peroxy radical on secondary organic aerosol formation from isoprene ozonolysis. <i>Atmospheric Environment</i> , <b>2018</b> , 187, 218-229	5.3	14
4 <sup>05</sup>	Seasonal Characteristics of Black Carbon Aerosol and its Potential Source Regions in Baoji, China. <i>Aerosol and Air Quality Research</i> , <b>2018</b> , 18, 397-406	4.6	11

404	Intra-Urban Levels, Spatial Variability, Possible Sources and Health Risks of PM <sub>2.5</sub> Bound Phthalate Esters in Xi'an. <i>Aerosol and Air Quality Research</i> , <b>2018</b> , 18, 485-496	4.6	5
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401	Urban-scale SALSCS, Part II: A Parametric Study of System Performance. <i>Aerosol and Air Quality Research</i> , <b>2018</b> , 18, 2879-2894	4.6	13
400	Levels, Sources, Markers and Health Risks of Heavy Metals in PM <sub>2.5</sub> Over a Typical Mining and Metallurgical City of Central China. <i>Aerosol Science and Engineering</i> , <b>2018</b> , 2, 1-10	1.6	9
399	Optimization and evaluation of multi-bed adsorbent tube method in collection of volatile organic compounds. <i>Atmospheric Research</i> , <b>2018</b> , 202, 187-195	5.4	18
398	Estimation of residential fine particulate matter infiltration in Shanghai, China. <i>Environmental Pollution</i> , <b>2018</b> , 233, 494-500	9.3	27
397	In situ g-C <sub>3</sub> N <sub>4</sub> self-sacrificial synthesis of a g-C <sub>3</sub> N <sub>4</sub> /LaCO <sub>3</sub> OH heterostructure with strong interfacial charge transfer and separation for photocatalytic NO removal. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 972-981	13	42
396	Characteristics of polycyclic aromatic hydrocarbons in PM emitted from different cooking activities in China. <i>Environmental Science and Pollution Research</i> , <b>2018</b> , 25, 4750-4760	5.1	31
395	Impact of primary and secondary air supply intensity in stove on emissions of size-segregated particulate matter and carbonaceous aerosols from apple tree wood burning. <i>Atmospheric Research</i> , <b>2018</b> , 202, 33-39	5.4	25
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386	Characteristics and source apportionment of winter black carbon aerosols in two Chinese megacities of Xi'an and Hong Kong. <i>Environmental Science and Pollution Research</i> , <b>2018</b> , 25, 33783-33793 <sup>5.1</sup>	17
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380	The impact of biomass burning on total suspended particulate matter in the southeastern Tibetan Plateau. <i>Atmospheric Environment</i> , <b>2018</b> , 193, 33-39	5.3 2
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378	Brown Carbon Aerosol in Urban Xi'an, Northwest China: The Composition and Light Absorption Properties. <i>Environmental Science &amp; Technology</i> , <b>2018</b> , 52, 6825-6833	10.3 86
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362	Regional transport of anthropogenic pollution and dust aerosols in spring to Tianjin - A coastal megacity in China. <i>Science of the Total Environment</i> , <b>2017</b> , 584-585, 381-392	10.2	11
361	Assessing human exposure to PM 10 -bound polycyclic aromatic hydrocarbons during fireworks displays. <i>Atmospheric Pollution Research</i> , <b>2017</b> , 8, 816-827	4.5	28
360	Spectral dependence of aerosol light absorption at an urban and a remote site over the Tibetan Plateau. <i>Science of the Total Environment</i> , <b>2017</b> , 590-591, 14-21	10.2	43
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340	A review of current knowledge concerning PM <sub>2.5</sub> ; chemical composition, aerosol optical properties, and their relationships across China <b>2017</b> ,		3
339	The 10th Asian Aerosol Conference in Jeju, Korea. <i>Aerosol Science and Engineering</i> , <b>2017</b> , 1, 169-170	1.6	
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337	Understanding Variability of Haze in Eastern China. <i>Journal of Fundamentals of Renewable Energy and Applications</i> , <b>2017</b> , 07,		2
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333	Sources and Chemical Composition of Particulate Matter During Haze Pollution Events in China <b>2017</b> , 49-68		2

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329	Seasonal variation, spatial distribution and source apportionment for polycyclic aromatic hydrocarbons (PAHs) at nineteen communities in Xi'an, China: The effects of suburban scattered emissions in winter. <i>Environmental Pollution</i> , <b>2017</b> , 231, 1330-1343	9.3	28
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326	Source apportionment of VOCs and their impacts on surface ozone in an industry city of Baoji, Northwestern China. <i>Scientific Reports</i> , <b>2017</b> , 7, 9979	4.9	30
325	Characterization and health risk assessment of PM-bound organics inside and outside of Chinese smoking lounges. <i>Chemosphere</i> , <b>2017</b> , 186, 438-445	8.4	11
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323	Seasonal Transport and Dry Deposition of Black Carbon Aerosol in the Southeastern Tibetan Plateau. <i>Aerosol Science and Engineering</i> , <b>2017</b> , 1, 160-168	1.6	11
322	Elements in Fine Particulate Matter (PM <sub>2.5</sub> ) from Indoor Air During Household Stoves Coal Combustion at Xuanwei, China. <i>Aerosol Science and Engineering</i> , <b>2017</b> , 1, 41-50	1.6	6
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318	Changes in concentration, composition and source contribution of atmospheric organic aerosols by shifting coal to natural gas in Urumqi. <i>Atmospheric Environment</i> , <b>2017</b> , 148, 306-315	5.3	21
317	Optical properties and possible sources of brown carbon in PM <sub>2.5</sub> over Xi'an, China. <i>Atmospheric Environment</i> , <b>2017</b> , 150, 322-330	5.3	58
316	Particulate matters emitted from maize straw burning for winter heating in rural areas in Guanzhong Plain, China: Current emission and future reduction. <i>Atmospheric Research</i> , <b>2017</b> , 184, 66-76	5.4	79
315	Composition and size distribution of airborne particulate PAHs and oxygenated PAHs in two Chinese megacities. <i>Atmospheric Research</i> , <b>2017</b> , 183, 322-330	5.4	46

314	Costimulation of soil glycosidase activity and soil respiration by nitrogen addition. <i>Global Change Biology</i> , <b>2017</b> , 23, 1328-1337	11.4	90
313	Perovskite LaFeO <sub>3</sub> -SrTiO <sub>3</sub> composite for synergistically enhanced NO removal under visible light excitation. <i>Applied Catalysis B: Environmental</i> , <b>2017</b> , 204, 346-357	21.8	102
312	Warming Effects on Ecosystem Carbon Fluxes Are Modulated by Plant Functional Types. <i>Ecosystems</i> , <b>2017</b> , 20, 515-526	3.9	37
311	Source apportionment of PM at urban and suburban areas of the Pearl River Delta region, south China - With emphasis on ship emissions. <i>Science of the Total Environment</i> , <b>2017</b> , 574, 1559-1570	10.2	121
310	Contributions of trans-boundary transport to summertime air quality in Beijing, China. <i>Atmospheric Chemistry and Physics</i> , <b>2017</b> , 17, 2035-2051	6.8	58
309	A possible pathway for rapid growth of sulfate during haze days in China. <i>Atmospheric Chemistry and Physics</i> , <b>2017</b> , 17, 3301-3316	6.8	142
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302	Young people's burden: requirement of negative CO <sub>2</sub> emissions. <i>Earth System Dynamics</i> , <b>2017</b> , 8, 577-616	4.8	127
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299	Indoor Air Pollution Levels in Decorated Residences and Public Places over Xi'an, China. <i>Aerosol and Air Quality Research</i> , <b>2017</b> , 17, 2197-2205	4.6	29
298	PM <sub>2.5</sub> -Bound Polycyclic Aromatic Hydrocarbons (PAHs), Oxygenated-PAHs and Phthalate Esters (PAEs) inside and outside Middle School Classrooms in Xi'an, China: Concentration, Characteristics and Health Risk Assessment. <i>Aerosol and Air Quality Research</i> , <b>2017</b> , 17, 1811-1824	4.6	14
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