# Dawei Lu

List of Publications by Year
in descending order



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|---|---|---|---|
| 26 papers | 939 citations | 516710 16 h-index | 526287 27 g-index |
| 28 all docs | 28 docs citations | 28 times ranked | 1172 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Exploring the diameter and surface dependent conformational changes in carbon nanotube-protein corona and the related cytotoxicity. Journal of Hazardous Materials, 2015, 292, 98-107. | 12.4 | 128 |
| 2 | Data-Driven Machine Learning in Environmental Pollution: Gains and Problems. Environmental Science & Technology, 2022, 56, 2124-2133. | 10.0 | 111 |
| 3 | Chemical multi-fingerprinting of exogenous ultrafine particles in human serum and pleural effusion. Nature Communications, 2020, 11, 2567. | 12.8 | 88 |
| 4 | Stable silver isotope fractionation in the natural transformation process of silver nanoparticles. Nature Nanotechnology, 2016, 11, 682-686. | 31.5 | 85 |
| 5 | Influence of the Surface Functional Group Density on the Carbon-Nanotube-Induced Î±-Chymotrypsin Structure and Activity Alterations. ACS Applied Materials & Interfaces, 2015, 7, 18880-18890. | 8.0 | 82 |
| 6 | Separation and Tracing of Anthropogenic Magnetite Nanoparticles in the Urban Atmosphere. Environmental Science & Technology, 2020, 54, 9274-9284. | 10.0 | 45 |
| 7 | GEOTRACES inter-calibration of the stable silicon isotope composition of dissolved silicic acid in seawater. Journal of Analytical Atomic Spectrometry, 2017, 32, 562-578. | 3.0 | 37 |
| 8 | Role of Secondary Particle Formation in the Persistence of Silver Nanoparticles in Humic Acid Containing Water under Light Irradiation. Environmental Science & Technology, 2017, 51, 14164-14172. | 10.0 | 37 |
| 9 | Distinguishing the sources of silica nanoparticles by dual isotopic fingerprinting and machine learning. Nature Communications, 2019, 10, 1620. | 12.8 | 37 |
| 10 | Evidence of Foodborne Transmission of the Coronavirus (COVID-19) through the Animal Products Food Supply Chain. Environmental Science & Technology, 2021, 55, 2713-2716. | 10.0 | 35 |
| 11 | Internal Exposure and Distribution of Airborne Fine Particles in the Human Body: Methodology, Current Understandings, and Research Needs. Environmental Science & Technology, 2022, 56, 6857-6869. | 10.0 | 33 |
| 12 | Natural Silicon Isotopic Signatures Reveal the Sources of Airborne Fine Particulate Matter. Environmental Science & Technology, 2018, 52, 1088-1095. | 10.0 | 30 |
| 13 | COVID-19-Induced Lockdowns Indicate the Short-Term Control Effect of Air Pollutant Emission in 174 Cities in China. Environmental Science & Technology, 2021, 55, 4094-4102. | 10.0 | 25 |
| 14 | Recent advances in the analysis of non-traditional stable isotopes by multi-collector inductively coupled plasma mass spectrometry. Journal of Analytical Atomic Spectrometry, 2017, 32, 1848-1861. | 3.0 | 24 |
| 15 | Mass spectrometry for multi-dimensional characterization of natural and synthetic materials at the nanoscale. Chemical Society Reviews, 2021, 50, 5243-5280. | 38.1 | 23 |
| 16 | Two-Dimensional Silicon Fingerprints Reveal Dramatic Variations in the Sources of Particulate Matter in Beijing during 2013â€“2017. Environmental Science & Technology, 2020, 54, 7126-7135. | 10.0 | 17 |
| 17 | Resurgence of Sandstorms Complicates Chinaâ€™s Air Pollution Situation. Environmental Science & Technology, 2021, 55, 11467-11469. | 10.0 | 17 |
| 18 | Unraveling the role of silicon in atmospheric aerosol secondary formation: a new conservative tracer for aerosol chemistry. Atmospheric Chemistry and Physics, 2019, 19, 2861-2870. | 4.9 | 15 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Identification, Quantification, and Imaging of the Biodistribution of Soot Particles by Mass Spectral Fingerprinting. Analytical Chemistry, 2021, 93, 6665-6672. | 6.5 | 14 |
| 20 | A pandemic-induced environmental dilemma of disposable masks: solutions from the perspective of the life cycle. Environmental Sciences: Processes and Impacts, 2022, 24, 649-674. | 3.5 | 13 |
| 21 | Identification of two-dimensional copper signatures in human blood for bladder cancer with machine learning. Chemical Science, 2022, 13, 1648-1656. | 7.4 | 11 |
| 22 | Phase transformation of silica particles in coal and biomass combustion processes. Environmental Pollution, 2022, 292, 118312. | 7.5 | 9 |
| 23 | New Insights into Unexpected Severe PM<sub>2.5</sub> Pollution during the SARS and COVID-19 Pandemic Periods in Beijing. Environmental Science & Technology, 2022, 56, 155-164. | 10.0 | 9 |
| 24 | Stable Iron Isotopic Signature Reveals Multiple Sources of Magnetic Particulate Matter in the 2021 Beijing Sandstorms. Environmental Science and Technology Letters, 2022, 9, 299-305. | 8.7 | 7 |
| 25 | Traffic-derived magnetite pollution in soils along a highway on the Tibetan Plateau. Environmental Science: Nano, 2022, 9, 621-631. | 4.3 | 3 |
| 26 | Nano-Tracing: Recent Progress in Sourcing Tracing Technology of Nanoparticles<sup>â€»</sup>. Acta Chimica Sinica, 2022, 80, 652. | 1.4 | 0 |