Alexandra E Porter

List of Publications by Year
in descending order

32 papers	1,821 citations	516710 16 h-index	454955 30 g-index
33 all docs	33 docs citations	33 times ranked	3529 citing authors

#	Article	IF	Citations
1	ZnO Nanomaterials and Ionic Zn Partition within Wastewater Sludge Investigated by Isotopic Labeling. Global Challenges, 2022, 6, 2100091.	3.6	2
2	Nanoscale Chemical Imaging of Nanoparticles under Realâ€World Wastewater Treatment Conditions. Advanced Sustainable Systems, 2021, 5, 2100023.	5.3	8
3	Roughening improves hydrogen embrittlement resistance of Ti-6Al-4V. Acta Materialia, 2021, 220, 117304.	7.9	23
4	Reply to Comment on Conopeptide-Functionalized Nanoparticles Selectively Antagonize Extrasynaptic N-Methyl-d-aspartate Receptors and Protect Hippocampal Neurons from Excitotoxicity In Vitro. ACS Nano, 2021, 15, 15409-15417.	14.6	0
5	A nanoscale analysis method to reveal oxygen exchange between environment, oxide, and electrodes in ReRAM devices. APL Materials, 2021, 9, .	5.1	6
6	Electronic structure influences on the formation of the solid electrolyte interphase. Energy and Environmental Science, 2020, 13, 4977-4989.	30.8	36
7	Conopeptide-Functionalized Nanoparticles Selectively Antagonize Extrasynaptic N-Methyl-<scp>d</scp>-aspartate Receptors and Protect Hippocampal Neurons from Excitotoxicity In Vitro. ACS Nano, 2020, 14, 6866-6877.	14.6	10
8	Nanoscale Chemical Heterogeneity in Aromatic Polyamide Membranes for Reverse Osmosis Applications. ACS Applied Materials & Interfaces, 2020, 12, 19890-19902.	8.0	12
9	Label-Free Time-of-Flight Secondary Ion Mass Spectrometry Imaging of Sulfur-Producing Enzymes inside Microglia Cells following Exposure to Silver Nanowires. Analytical Chemistry, 2019, 91, 11098-11107.	6.5	9
10	Spatially Resolved Dissolution and Speciation Changes of ZnO Nanorods during Short-Term in Situ Incubation in a Simulated Wastewater Environment. ACS Nano, 2019, 13, 11049-11061.	14.6	13
11	Chemical Evolution of CoCrMo Wear Particles: An in Situ Characterization Study. Journal of Physical Chemistry C, 2019, 123, 9894-9901.	3.1	4
12	Understanding the reactivity of CoCrMo-implant wear particles. Npj Materials Degradation, 2018, 2, .	5.8	11
13	Calcified nodules in retinal drusen are associated with disease progression in age-related macular degeneration. Science Translational Medicine, 2018, 10, .	12.4	111
14	Inactivation, Clearance, and Functional Effects of Lung-Instilled Short and Long Silver Nanowires in Rats. ACS Nano, 2017, 11, 2652-2664.	14.6	30
15	Release of airborne particles and Ag and Zn compounds from nanotechnology-enabled consumer sprays: Implications for inhalation exposure. Atmospheric Environment, 2017, 155, 85-96.	4.1	21
16	Silver nanoparticles reduce brain inflammation and related neurotoxicity through induction of H2S-synthesizing enzymes. Scientific Reports, 2017, 7, 42871.	3.3	110
17	Probing flow activity in polyamide layer of reverse osmosis membrane with nanoparticle tracers. Journal of Membrane Science, 2017, 534, 9-17.	8.2	29
18	Analysis and imaging of biocidal agrochemicals using ToF-SIMS. Scientific Reports, 2017, 7, 10728.	3.3	3

#	Article	IF	Citations
19	Silver Nanowire Particle Reactivity with Human Monocyte-Derived Macrophage Cells: Intracellular Availability of Silver Governs Their Cytotoxicity. ACS Biomaterials Science and Engineering, 2017, 3, 2336-2347.	5.2	23
20	Neutron Reflectivity and Performance of Polyamide Nanofilms for Water Desalination. Advanced Functional Materials, 2017, 27, 1701738.	14.9	47
21	Avoiding artefacts during electron microscopy of silver nanomaterials exposed to biological environments. Journal of Microscopy, 2016, 261, 157-166.	1.8	15
22	Micro-to nano-scale characterisation of polyamide structures of the SW30HR RO membrane using advanced electron microscopy and stain tracers. Journal of Membrane Science, 2016, 520, 465-476.	8.2	107
23	Direct in situ observation of ZnO nucleation and growth via transmission X-ray microscopy. Nanoscale, 2016, 8, 1849-1853.	5.6	13
24	Unique metabolites protect earthworms against plant polyphenols. Nature Communications, 2015, 6, 7869.	12.8	71
25	Correlative electron and X-ray microscopy: probing chemistry and bonding with high spatial resolution. Nanoscale, 2015, 7, 1534-1548.	5.6	19
26	Microstructural characterization of low and high carbon CoCrMo alloy nanoparticles produced by mechanical milling. Journal of Physics: Conference Series, 2014, 522, 012059.	0.4	5
27	Sulfidation of silver nanowires inside human alveolar epithelial cells: a potential detoxification mechanism. Nanoscale, 2013, 5, 9839.	5.6	56
28	Correlative spectroscopy of silicates in mineralised nodules formed from osteoblasts. Nanoscale, 2013, 5, 7544.	5.6	9
29	The role of intracellular calcium phosphate in osteoblast-mediated bone apatite formation. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 14170-14175.	7.1	429
30	Chemical speciation of nanoparticles surrounding metal-on-metal hips. Chemical Communications, 2012, 48, 8335.	4.1	45
31	Direct imaging of single-walled carbon nanotubes in cells. Nature Nanotechnology, 2007, 2, 713-717.	31.5	539
32	On the role of surfaces and interfaces in electrochemical performance and long-term stability of nanostructured LSC thin film electrodes. Journal of Materials Chemistry A, 0, , .	10.3	2