

Alexandra E Porter

List of Publications by Year in descending order

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Version: 2024-02-01

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	Direct imaging of single-walled carbon nanotubes in cells. <i>Nature Nanotechnology</i> , 2007, 2, 713-717.	31.5	539
2	The role of intracellular calcium phosphate in osteoblast-mediated bone apatite formation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 14170-14175.	7.1	429
3	Calcified nodules in retinal drusen are associated with disease progression in age-related macular degeneration. <i>Science Translational Medicine</i> , 2018, 10, .	12.4	111
4	Silver nanoparticles reduce brain inflammation and related neurotoxicity through induction of H2S-synthesizing enzymes. <i>Scientific Reports</i> , 2017, 7, 42871.	3.3	110
5	Micro-to nano-scale characterisation of polyamide structures of the SW30HR RO membrane using advanced electron microscopy and stain tracers. <i>Journal of Membrane Science</i> , 2016, 520, 465-476.	8.2	107
6	Unique metabolites protect earthworms against plant polyphenols. <i>Nature Communications</i> , 2015, 6, 7869.	12.8	71
7	Sulfidation of silver nanowires inside human alveolar epithelial cells: a potential detoxification mechanism. <i>Nanoscale</i> , 2013, 5, 9839.	5.6	56
8	Neutron Reflectivity and Performance of Polyamide Nanofilms for Water Desalination. <i>Advanced Functional Materials</i> , 2017, 27, 1701738.	14.9	47
9	Chemical speciation of nanoparticles surrounding metal-on-metal hips. <i>Chemical Communications</i> , 2012, 48, 8335.	4.1	45
10	Electronic structure influences on the formation of the solid electrolyte interphase. <i>Energy and Environmental Science</i> , 2020, 13, 4977-4989.	30.8	36
11	Inactivation, Clearance, and Functional Effects of Lung-Instilled Short and Long Silver Nanowires in Rats. <i>ACS Nano</i> , 2017, 11, 2652-2664.	14.6	30
12	Probing flow activity in polyamide layer of reverse osmosis membrane with nanoparticle tracers. <i>Journal of Membrane Science</i> , 2017, 534, 9-17.	8.2	29
13	Silver Nanowire Particle Reactivity with Human Monocyte-Derived Macrophage Cells: Intracellular Availability of Silver Governs Their Cytotoxicity. <i>ACS Biomaterials Science and Engineering</i> , 2017, 3, 2336-2347.	5.2	23
14	Roughening improves hydrogen embrittlement resistance of Ti-6Al-4V. <i>Acta Materialia</i> , 2021, 220, 117304.	7.9	23
15	Release of airborne particles and Ag and Zn compounds from nanotechnology-enabled consumer sprays: Implications for inhalation exposure. <i>Atmospheric Environment</i> , 2017, 155, 85-96.	4.1	21
16	Correlative electron and X-ray microscopy: probing chemistry and bonding with high spatial resolution. <i>Nanoscale</i> , 2015, 7, 1534-1548.	5.6	19
17	Avoiding artefacts during electron microscopy of silver nanomaterials exposed to biological environments. <i>Journal of Microscopy</i> , 2016, 261, 157-166.	1.8	15
18	Direct in situ observation of ZnO nucleation and growth via transmission X-ray microscopy. <i>Nanoscale</i> , 2016, 8, 1849-1853.	5.6	13

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19	Spatially Resolved Dissolution and Speciation Changes of ZnO Nanorods during Short-Term <i>in Situ</i> Incubation in a Simulated Wastewater Environment. <i>ACS Nano</i> , 2019, 13, 11049-11061.	14.6	13
20	Nanoscale Chemical Heterogeneity in Aromatic Polyamide Membranes for Reverse Osmosis Applications. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 19890-19902.	8.0	12
21	Understanding the reactivity of CoCrMo-implant wear particles. <i>Npj Materials Degradation</i> , 2018, 2, .	5.8	11
22	Conopeptide-Functionalized Nanoparticles Selectively Antagonize Extrasynaptic <i>N</i> -Methyl-d-aspartate Receptors and Protect Hippocampal Neurons from Excitotoxicity <i>In Vitro</i> . <i>ACS Nano</i> , 2020, 14, 6866-6877.	14.6	10
23	Correlative spectroscopy of silicates in mineralised nodules formed from osteoblasts. <i>Nanoscale</i> , 2013, 5, 7544.	5.6	9
24	Label-Free Time-of-Flight Secondary Ion Mass Spectrometry Imaging of Sulfur-Producing Enzymes inside Microglia Cells following Exposure to Silver Nanowires. <i>Analytical Chemistry</i> , 2019, 91, 11098-11107.	6.5	9
25	Nanoscale Chemical Imaging of Nanoparticles under Real-World Wastewater Treatment Conditions. <i>Advanced Sustainable Systems</i> , 2021, 5, 2100023.	5.3	8
26	A nanoscale analysis method to reveal oxygen exchange between environment, oxide, and electrodes in ReRAM devices. <i>APL Materials</i> , 2021, 9, .	5.1	6
27	Microstructural characterization of low and high carbon CoCrMo alloy nanoparticles produced by mechanical milling. <i>Journal of Physics: Conference Series</i> , 2014, 522, 012059.	0.4	5
28	Chemical Evolution of CoCrMo Wear Particles: An <i>in Situ</i> Characterization Study. <i>Journal of Physical Chemistry C</i> , 2019, 123, 9894-9901.	3.1	4
29	Analysis and imaging of biocidal agrochemicals using ToF-SIMS. <i>Scientific Reports</i> , 2017, 7, 10728.	3.3	3
30	On the role of surfaces and interfaces in electrochemical performance and long-term stability of nanostructured LSC thin film electrodes. <i>Journal of Materials Chemistry A</i> , 0, , .	10.3	2
31	ZnO Nanomaterials and Ionic Zn Partition within Wastewater Sludge Investigated by Isotopic Labeling. <i>Global Challenges</i> , 2022, 6, 2100091.	3.6	2
32	Reply to Comment on Conopeptide-Functionalized Nanoparticles Selectively Antagonize Extrasynaptic <i>N</i> -Methyl-d-aspartate Receptors and Protect Hippocampal Neurons from Excitotoxicity <i>In Vitro</i> . <i>ACS Nano</i> , 2021, 15, 15409-15417.	14.6	0