Alexandra E Porter

List of Publications by Year
in descending order

33	1,267	304743	395702
papers	citations	22 h-index	33 g-index

33	33	33	2440
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Cellular uptake mechanisms of functionalised multi-walled carbon nanotubes by 3D electron tomography imaging. Nanoscale, 2011, 3, 2627.	5.6	110
2	The Stability of Silver Nanoparticles in a Model of Pulmonary Surfactant. Environmental Science & Technology, 2013, 47, 11232-11240.	10.0	99
3	Pulmonary Toxicity of Instilled Silver Nanoparticles: Influence of Size, Coating and Rat Strain. PLoS ONE, 2015, 10, e0119726.	2.5	94
4	Ultra-structural defects cause low bone matrix stiffness despite high mineralization in osteogenesis imperfecta mice. Bone, 2012, 50, 1317-1323.	2.9	80
5	Multibranched Gold Nanoparticles with Intrinsic LAT-1 Targeting Capabilities for Selective Photothermal Therapy of Breast Cancer. ACS Applied Materials & Interfaces, 2017, 9, 39259-39270.	8.0	74
6	Gold Nanostar Substrates for Metal-Enhanced Fluorescence through the First and Second Near-Infrared Windows. Chemistry of Materials, 2017, 29, 6916-6926.	6.7	72
7	Sulfidation of silver nanowires inside human alveolar epithelial cells: a potential detoxification mechanism. Nanoscale, 2013, 5, 9839.	5.6	56
8	Osteopontin regulates type I collagen fibril formation in bone tissue. Acta Biomaterialia, 2021, 120, 194-202.	8.3	56
9	Multimetallic Microparticles Increase the Potency of Rifampicin against Intracellular Mycobacterium tuberculosis. ACS Nano, 2018, 12, 5228-5240.	14.6	53
10	Correlative Lightâ€Electron Microscopy Shows RGDâ€Targeted ZnO Nanoparticles Dissolve in the Intracellular Environment of Triple Negative Breast Cancer Cells and Cause Apoptosis with Intratumor Heterogeneity. Advanced Healthcare Materials, 2016, 5, 1310-1325.	7.6	48
11	Modulation of Human Macrophage Responses to Mycobacterium tuberculosis by Silver Nanoparticles of Different Size and Surface Modification. PLoS ONE, 2015, 10, e0143077.	2.5	43
12	Pulmonary effects of inhalation of spark-generated silver nanoparticles in Brown-Norway and Sprague–Dawley rats. Respiratory Research, 2016, 17, 85.	3.6	42
13	Aqueous cationic, anionic and non-ionic multi-walled carbon nanotubes, functionalised with minimal framework damage, for biomedical application. Biomaterials, 2014, 35, 4729-4738.	11.4	40
14	Frizzled-7-targeted delivery of zinc oxide nanoparticles to drug-resistant breast cancer cells. Nanoscale, 2019, 11, 12858-12870.	5.6	39
15	The S100A4 Protein Signals through the ErbB4 Receptor to Promote Neuronal Survival. Theranostics, 2018, 8, 3977-3990.	10.0	35
16	High-Resolution Analytical Electron Microscopy Reveals Cell Culture Media-Induced Changes to the Chemistry of Silver Nanowires. Environmental Science & Technology, 2013, 47, 13813-13821.	10.0	33
17	Silver nanowire interactions with primary human alveolar type-II epithelial cell secretions: contrasting bioreactivity with human alveolar type-I and type-II epithelial cells. Nanoscale, 2015, 7, 10398-10409.	5.6	31
18	Inactivation, Clearance, and Functional Effects of Lung-Instilled Short and Long Silver Nanowires in Rats. ACS Nano, 2017, 11, 2652-2664.	14.6	30

#	Article	IF	Citations
19	Fluorescence enhancement from single gold nanostars: towards ultra-bright emission in the first and second near-infrared biological windows. Nanoscale, 2018, 10, 15854-15864.	5.6	30
20	Towards multiplexed near-infrared cellular imaging using gold nanostar arrays with tunable fluorescence enhancement. Nanoscale, 2019, 11, 2079-2088.	5.6	30
21	Quantification of bloodâ€“brain barrier transport and neuronal toxicity of unlabelled multiwalled carbon nanotubes as a function of surface charge. Nanoscale, 2019, 11, 22054-22069.	5.6	30
22	Translocation of Functionalized Multi-Walled Carbon Nanotubes across Human Pulmonary Alveolar Epithelium: Dominant Role of Epithelial Type 1 Cells. ACS Nano, 2016, 10, 5070-5085.	14.6	26
23	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
24	Static and Dynamic Microscopy of the Chemical Stability and Aggregation State of Silver Nanowires in Components of Murine Pulmonary Surfactant. Environmental Science & Technology, 2015, 49, 8048-8056.	10.0	21
25	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
26	Geometry-induced protein reorientation on the spikes of plasmonic gold nanostars. Nanoscale Advances, 2020, 2, 1144-1151.	4.6	12
27	Fracture toughness of bone at the microscale. Acta Biomaterialia, 2021, 121, 475-483.	8.3	11
28	Approaches to treating tuberculosis by encapsulating metal ions and anti-mycobacterial drugs utilizing nano- and microparticle technologies. Emerging Topics in Life Sciences, 2020, 4, 581-600.	2.6	11
29	Nanoscale Chemical Imaging of Nanoparticles under Realâ€World Wastewater Treatment Conditions. Advanced Sustainable Systems, 2021, 5, 2100023.	5.3	8
30	Aqueous dispersions of oligomer-grafted carbon nanomaterials with controlled surface charge and minimal framework damage. Faraday Discussions, 2014, 173, 273-285.	3.2	7
31	Effect of silver nanospheres and nanowires on human airway smooth muscle cells: role of sulfidation. Nanoscale Advances, 2020, 2, 5635-5647.	4.6	7
32	ZnO Nanomaterials and Ionic Zn Partition within Wastewater Sludge Investigated by Isotopic Labeling. Global Challenges, 2022, 6, 2100091.	3.6	2
33	Nanoscale Imaging and Analysis of Bone Pathologies. Applied Sciences (Switzerland), 2021, 11, 12033.	2.5	1