

Robert I Maccuspie

List of Publications by Citations

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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.

47
papers

2,909
citations

29
h-index

47
g-index

47
ext. papers

3,129
ext. citations

6.3
avg, IF

5.16
L-index

#	Paper	IF	Citations
47	Adsorption and conformation of serum albumin protein on gold nanoparticles investigated using dimensional measurements and in situ spectroscopic methods. <i>Langmuir</i> , 2011 , 27, 2464-77	4	316
46	Humic acid-induced silver nanoparticle formation under environmentally relevant conditions. <i>Environmental Science & Technology</i> , 2011 , 45, 3895-901	10.3	240
45	Stable nanoparticle aggregates/agglomerates of different sizes and the effect of their size on hemolytic cytotoxicity. <i>Nanotoxicology</i> , 2011 , 5, 517-30	5.3	190
44	Identification and avoidance of potential artifacts and misinterpretations in nanomaterial ecotoxicity measurements. <i>Environmental Science & Technology</i> , 2014 , 48, 4226-46	10.3	187
43	Measuring silver nanoparticle dissolution in complex biological and environmental matrices using UV-visible absorbance. <i>Analytical and Bioanalytical Chemistry</i> , 2011 , 401, 1993-2002	4.4	170
42	Persistence of singly dispersed silver nanoparticles in natural freshwaters, synthetic seawater, and simulated estuarine waters. <i>Science of the Total Environment</i> , 2011 , 409, 2443-50	10.2	154
41	UV-induced photochemical transformations of citrate-capped silver nanoparticle suspensions. <i>Journal of Nanoparticle Research</i> , 2012 , 14, 1	2.3	104
40	Does shape matter? Bioeffects of gold nanomaterials in a human skin cell model. <i>Langmuir</i> , 2012 , 28, 3248-58	4	101
39	Capabilities of single particle inductively coupled plasma mass spectrometry for the size measurement of nanoparticles: a case study on gold nanoparticles. <i>Analytical Chemistry</i> , 2014 , 86, 3405-14	7.8	99
38	Colloidal stability of silver nanoparticles in biologically relevant conditions. <i>Journal of Nanoparticle Research</i> , 2011 , 13, 2893-2908	2.3	98
37	Biological bottom-up assembly of antibody nanotubes on patterned antigen arrays. <i>Journal of the American Chemical Society</i> , 2004 , 126, 8088-9	16.4	86
36	Challenges for physical characterization of silver nanoparticles under pristine and environmentally relevant conditions. <i>Journal of Environmental Monitoring</i> , 2011 , 13, 1212-26		80
35	Measuring agglomerate size distribution and dependence of localized surface plasmon resonance absorbance on gold nanoparticle agglomerate size using analytical ultracentrifugation. <i>ACS Nano</i> , 2011 , 5, 8070-9	16.7	80
34	Competitive adsorption of thiolated polyethylene glycol and mercaptopropionic acid on gold nanoparticles measured by physical characterization methods. <i>Langmuir</i> , 2010 , 26, 10325-33	4	68
33	Dissolution, agglomerate morphology, and stability limits of protein-coated silver nanoparticles. <i>Langmuir</i> , 2014 , 30, 11442-52	4	59
32	Newkome-type dendron stabilized gold nanoparticles: Synthesis, reactivity, and stability. <i>Chemistry of Materials</i> , 2011 , 23, 2665-2676	9.6	58
31	Metalloporphyrin Nanotube Fabrication Using Peptide Nanotubes as Templates. <i>Nano Letters</i> , 2001 , 1, 671-675	11.5	58

30	In Situ UV/Vis, SAXS, and TEM Study of Single-Phase Gold Nanoparticle Growth. <i>Chemistry of Materials</i> , 2012 , 24, 981-995	9.6	56
29	Dispersion stabilization of silver nanoparticles in synthetic lung fluid studied under in situ conditions. <i>Nanotoxicology</i> , 2011 , 5, 140-56	5.3	53
28	Pulmonary and cardiovascular responses of rats to inhalation of silver nanoparticles. <i>Journal of Toxicology and Environmental Health - Part A: Current Issues</i> , 2013 , 76, 651-68	3.2	49
27	Optical Properties of Rodlike Metallic Nanostructures: Insight from Theory and Experiment. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 15524-15532	3.8	45
26	Gold nanorod separation and characterization by asymmetric-flow field flow fractionation with UV-Vis detection. <i>Analytical and Bioanalytical Chemistry</i> , 2013 , 405, 1191-202	4.4	43
25	Highly stable positively charged dendron-encapsulated gold nanoparticles. <i>Langmuir</i> , 2014 , 30, 3883-93	4	42
24	Controlled Growth of Se Nanoparticles on Ag Nanoparticles in Different Ratios. <i>Advanced Materials</i> , 2005 , 17, 426-429	24	42
23	Storage Wars: how citrate-capped silver nanoparticle suspensions are affected by not-so-trivial decisions. <i>Journal of Nanoparticle Research</i> , 2014 , 16, 1	2.3	39
22	Testing of Commercial Masks and Respirators and Cotton Mask Insert Materials using SARS-CoV-2 Virion-Sized Particulates: Comparison of Ideal Aerosol Filtration Efficiency versus Fitted Filtration Efficiency. <i>Nano Letters</i> , 2020 , 20, 7642-7647	11.5	38
21	Tumor necrosis factor interaction with gold nanoparticles. <i>Nanoscale</i> , 2012 , 4, 3208-17	7.7	37
20	Nanoparticle-wetted surfaces for relays and energy transmission contacts. <i>Small</i> , 2007 , 3, 1957-63	11	36
19	Tiered guidance for risk-informed environmental health and safety testing of nanotechnologies. <i>Journal of Nanoparticle Research</i> , 2015 , 17, 1	2.3	35
18	Disinfection action of electrostatic versus steric-stabilized silver nanoparticles on E. coli under different water chemistries. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014 , 113, 77-84	6	29
17	Comparison of electrical properties of viruses studied by AC capacitance scanning probe microscopy. <i>Journal of the American Chemical Society</i> , 2008 , 130, 887-91	16.4	29
16	Colorimetric detection with aptamer-gold nanoparticle conjugates: effect of aptamer length on response. <i>Journal of Nanoparticle Research</i> , 2012 , 14, 1	2.3	25
15	Thiolated Peptide Nanotube Assembly as Arrays on Patterned Au Substrates. <i>Nano Letters</i> , 2004 , 4, 2437-2440	2.5	25
14	Just add water: reproducible singly dispersed silver nanoparticle suspensions on-demand. <i>Journal of Nanoparticle Research</i> , 2013 , 15, 1	2.3	24
13	Virus assay using antibody-functionalized peptide nanotubes. <i>Soft Matter</i> , 2008 , 4, 833-839	3.6	19

12	Nanomechanical properties of polyethylene glycol brushes on gold substrates. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 3138-47	3.4	18
11	Purification–chemical structure–electrical property relationship in gold nanoparticle liquids. <i>Applied Organometallic Chemistry</i> , 2010 , 24, 590-599	3.1	17
10	Self-assembly of Au Nanoparticle-containing Peptide Nano-rings on Surfaces. <i>Supramolecular Chemistry</i> , 2006 , 18, 429-434	1.8	17
9	Unexpected Changes in Functionality and Surface Coverage for Au Nanoparticle PEI Conjugates: Implications for Stability and Efficacy in Biological Systems. <i>Langmuir</i> , 2015 , 31, 7673-83	4	16
8	Antibody-mediated self-limiting self-assembly for quantitative analysis of nanoparticle surfaces by atomic force microscopy. <i>Microscopy and Microanalysis</i> , 2011 , 17, 206-14	0.5	9
7	A framework for identifying performance targets for sustainable nanomaterials. <i>Sustainable Materials and Technologies</i> , 2014 , 1-2, 17-25	5.3	5
6	Prevention through design: insights from computational fluid dynamics modeling to predict exposure to ultrafine particles from 3D printing. <i>Journal of Toxicology and Environmental Health - Part A: Current Issues</i> , 2021 , 84, 458-474	3.2	5
5	Refining the statistical model for quantitative immunostaining of surface-functionalized nanoparticles by AFM. <i>Analytical and Bioanalytical Chemistry</i> , 2013 , 405, 8197-206	4.4	3
4	Characterization of Nanomaterials for NanoEHS Studies 2018 , 59-82		3
3	Timescale of silver nanoparticle transformation in neural cell cultures impacts measured cell response. <i>Journal of Nanoparticle Research</i> , 2015 , 17, 1	2.3	1
2	Characterization of Nanomaterials for NanoEHS Studies 2014 , 55-76		1
1	Characterization of Nanoparticles for Nanomaterial Environmental Health and Safety Studies: The Physics and Metrology for Several Common Approaches. <i>IEEE Nanotechnology Magazine</i> , 2020 , 14, 7-22 ^{1.7}		