Nicole S Hondow

List of Publications by Year
in descending order

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Version: 2024-02-01

105	2,686	159585	214800
papers	citations	30 h-index	47 g-index

113	113	113	4684
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Industrial-relevant TiO2 types do not promote cytotoxicity in the A549 or TK6 cell lines regardless of cell specific interaction. Toxicology in Vitro, 2022, 83, 105415.	2.4	2
2	In Vitro Primaryâ€Indirect Genotoxicity in Bronchial Epithelial Cells Promoted by Industrially Relevant Fewâ€Layer Graphene. Small, 2021, 17, e2002551.	10.0	21
3	Detoxification, Active Uptake, and Intracellular Accumulation of Chromium Species by a Methane-Oxidizing Bacterium. Applied and Environmental Microbiology, 2021, 87, .	3.1	5
4	Few-layer graphene induces both primary and secondary genotoxicity in epithelial barrier models in vitro. Journal of Nanobiotechnology, 2021, 19, 24.	9.1	21
5	Exploring water in oil emulsions simultaneously stabilized by solid hydrophobic silica nanospheres and hydrophilic soft PNIPAM microgel. Soft Matter, 2021, 17, 8258-8268.	2.7	10
6	Arsenic species delay structural ordering during green rust sulfate crystallization from ferrihydrite. Environmental Science: Nano, 2021, 8, 2950-2963.	4.3	6
7	Characterization of Amorphous Solid Dispersions and Identification of Low Levels of Crystallinity by Transmission Electron Microscopy. Molecular Pharmaceutics, 2021, 18, 1905-1919.	4.6	20
8	Engineering of Microcage Carbon Nanotube Architectures with Decoupled Multimodal Porosity and Amplified Catalytic Performance. Advanced Materials, 2021, 33, e2008307.	21.0	9
9	Mixing performance and continuous production of nanomaterials in an advanced-flow reactor. Chemical Engineering Journal, 2021, 412, 128565.	12.7	34
10	Tuning stable noble metal nanoparticles dispersions to moderate their interaction with model membranes. Journal of Colloid and Interface Science, 2021, 594, 101-112.	9.4	5
11	Continuous microfluidic synthesis of zirconium-based UiO-67 using a coiled flow invertor reactor. MethodsX, 2021, 8, 101246.	1.6	12
12	Understanding stress-induced disorder and breakage in organic crystals: beyond crystal structure anisotropy. Chemical Science, 2021, 12, 14270-14280.	7.4	5
13	Examination of Combustion-Generated Smoke Particles from Biomass at Source: Relation to Atmospheric Light Absorption. Combustion Science and Technology, 2020, 192, 130-143.	2.3	3
14	The effect of pre-activation and milling on improving natural clinoptilolite for ion exchange of cesium and strontium. Journal of Environmental Chemical Engineering, 2020, 8, 102991.	6.7	28
15	Metal-shell nanocapsules for the delivery of cancer drugs. Journal of Colloid and Interface Science, 2020, 567, 171-180.	9.4	17
16	A spatially orthogonal hierarchically porous acidâ€“base catalyst for cascade and antagonistic reactions. Nature Catalysis, 2020, 3, 921-931.	34.4	75
17	Analysis of complex, beam-sensitive materials by transmission electron microscopy and associated techniques. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2020, 378, 20190601.	3.4	21
18	Glycan-Gold Nanoparticles as Multifunctional Probes for Multivalent Lectinâ€“Carbohydrate Binding: Implications for Blocking Virus Infection and Nanoparticle Assembly. Journal of the American Chemical Society, 2020, 142, 18022-18034.	13.7	49

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19	Factors Influencing the Surface Functionalization of Citrate Stabilized Gold Nanoparticles with Cysteamine, 3-Mercaptopropionic Acid or l-Selenocystine for Sensor Applications. Chemosensors, 2020, 8, 80.	3.6	34
20	Nanoparticle corona artefacts derived from specimen preparation of particle suspensions. Scientific Reports, 2020, 10, 5278.	3.3	6
21	Photon induced quantum yield regeneration of cap-exchanged CdSe/CdS quantum rods for ratiometric biosensing and cellular imaging. Nanoscale, 2020, 12, 8647-8655.	5.6	7
22	Nanoparticle modified polyacrylamide for enhanced oil recovery at harsh conditions. Fuel, 2020, 268, 117186.	6.4	40
23	Progress on Cryogenic Analytical STEM of Nanomaterials. Microscopy and Microanalysis, 2019, 25, 1086-1087.	0.4	1
24	Quantifying the Dispersion of Nanoparticles by Electron Microscopy. Microscopy and Microanalysis, 2019, 25, 706-707.	0.4	0
25	Analytical Cryo Electron Microscopy for Characterization of Pickering Emulsions. Microscopy and Microanalysis, 2019, 25, 1706-1707.	0.4	2
26	Struvite Crystallisation and the Effect of Co2+ Ions. Minerals (Basel, Switzerland), 2019, 9, 503.	2.0	10
27	Methyl Selenol as a Precursor in Selenite Reduction to Se/S Species by Methane-Oxidizing Bacteria. Applied and Environmental Microbiology, 2019, 85, .	3.1	24
28	Synthesis of super bright indium phosphide colloidal quantum dots through thermal diffusion. Communications Chemistry, 2019, 2, .	4.5	20
29	In vitro detection of in vitro secondary mechanisms of genotoxicity induced by engineered nanomaterials. Particle and Fibre Toxicology, 2019, 16, 8.	6.2	40
30	Cryo-analytical STEM of frozen, aqueous dispersions of nanoparticles. Micron, 2019, 120, 35-42.	2.2	22
31	Characterisation of polyphosphate coated aluminium-doped titania nanoparticles during milling. Journal of Colloid and Interface Science, 2019, 548, 110-122.	9.4	5
32	Low dose scanning transmission electron microscopy of organic crystals by scanning moirÃ© fringes. Micron, 2019, 120, 1-9.	2.2	19
33	All-aqueous continuous-flow RAFT dispersion polymerisation for efficient preparation of diblock copolymer spheres, worms and vesicles. Reaction Chemistry and Engineering, 2019, 4, 852-861.	3.7	34
34	Beam-induced oxidation of mixed-valent Fe (oxyhydr)oxides (green rust) monitored by STEM-EELS. Micron, 2019, 122, 46-52.	2.2	14
35	Hydrothermal Synthesis of Silver Nanoparticles for High Throughput Biosensing Applications. MRS Advances, 2018, 3, 861-866.	0.9	0
36	Fibrous aluminosilicate catalyst support for hydrogen production by chemical looping steam reforming. Energy Reports, 2018, 4, 733-743.	5.1	4

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37	Toward Developing a Predictive Approach To Assess Electron Beam Instability during Transmission Electron Microscopy of Drug Molecules. Molecular Pharmaceutics, 2018, 15, 5114-5123.	4.6	9
38	Î²-pyrophosphate: A potential biomaterial for dental applications. Materials Science and Engineering C, 2017, 75, 885-894.	7.3	21
39	Near-IR mode-locked laser assisted sintering and morphological engineering of biomaterials - a new approach for integrative manufacturing of hard-soft tissues for in-theatre use!. , 2017, , .		0
40	Characterizing Nanoparticles in Biological Matrices: Tipping Points in Agglomeration State and Cellular Delivery In Vitro. ACS Nano, 2017, 11, 11986-12000.	14.6	33
41	Dissecting Multivalent Lectinâ€“Carbohydrate Recognition Using Polyvalent Multifunctional Glycan-Quantum Dots. Journal of the American Chemical Society, 2017, 139, 11833-11844.	13.7	54
42	Microbial transformations of selenite by methane-oxidizing bacteria. Applied Microbiology and Biotechnology, 2017, 101, 6713-6724.	3.6	42
43	Cryo-STEM-EDX spectroscopy for the characterisation of nanoparticles in cell culture media. Journal of Physics: Conference Series, 2017, 902, 012006.	0.4	6
44	Multi-linear Regression Model to Predict the Electron Stability of Poorly Soluble Active Pharmaceutical Ingredients. Microscopy and Microanalysis, 2017, 23, 1194-1195.	0.4	0
45	Biomagnetic Recovery and Bioaccumulation of Selenium Granules in Magnetotactic Bacteria. Applied and Environmental Microbiology, 2016, 82, 3886-3891.	3.1	34
46	Observation of compositional domains within individual copper indium sulfide quantum dots. Nanoscale, 2016, 8, 16157-16161.	5.6	10
47	Quantifying the cellular uptake of semiconductor quantum dot nanoparticles by analytical electron microscopy. Journal of Microscopy, 2016, 261, 167-176.	1.8	12
48	Spatially orthogonal chemical functionalization ofÂa hierarchical pore network for catalytic cascadeÂreactions. Nature Materials, 2016, 15, 178-182.	27.5	101
49	Barium Titanate Nanoparticles for Biomarker Applications. Journal of Physics: Conference Series, 2015, 644, 012037.	0.4	10
50	Genetic toxicity assessment of engineered nanoparticles using a 3D in vitro skin model (EpiDermâ„¢). Particle and Fibre Toxicology, 2015, 13, 50.	6.2	51
51	Analysis of Electron Beam Damage of Crystalline Pharmaceutical Materials by Transmission Electron Microscopy. Journal of Physics: Conference Series, 2015, 644, 012038.	0.4	3
52	Microscopy of nanoparticulate dispersions. Journal of Microscopy, 2015, 260, 238-247.	1.8	25
53	Exploring backscattered imaging in low voltage FE-SEM. Journal of Physics: Conference Series, 2015, 644, 012019.	0.4	9
54	Transmission electron microscopy of a model crystalline organic, theophylline. Journal of Physics: Conference Series, 2015, 644, 012030.	0.4	2

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55	Prospects for High Resolution Analytical Electron Microscopy of Organic Crystalline Particles. Microscopy and Microanalysis, 2015, 21, 397-398.	0.4	1
56	Nanomaterials. Frontiers of Nanoscience, 2015, 8, 183-216.	0.6	1
57	Cell Type-Dependent Changes in CdSe/ZnS Quantum Dot Uptake and Toxic Endpoints. Toxicological Sciences, 2015, 144, 246-258.	3.1	53
58	Selectivity control in Pt-catalyzed cinnamaldehyde hydrogenation. Scientific Reports, 2015, 5, 9425.	3.3	101
59	Statistical prediction of nanoparticle delivery: from culture media to cell. Nanotechnology, 2015, 26, 155101.	2.6	11
60	Genotoxic capacity of Cd/Se semiconductor quantum dots with differing surface chemistries. Mutagenesis, 2015, 31, gev061.	2.6	21
61	Serial block face SEM and TEM imaging for quantitative measurement of cellular uptake of semiconductor quantum dot nanoparticles. Microscopy and Microanalysis, 2015, 21, 1553-1554.	0.4	0
62	EELS from organic crystalline materials. Journal of Physics: Conference Series, 2014, 522, 012060.	0.4	5
63	Selective oxidation of allylic alcohols over highly ordered Pd/meso-Al2O3 catalysts. Catalysis Communications, 2014, 44, 40-45.	3.3	32
64	Systematic Investigation of the Physicochemical Factors That Contribute to the Toxicity of ZnO Nanoparticles. Chemical Research in Toxicology, 2014, 27, 558-567.	3.3	70
65	Nanoparticle vesicle encoding for imaging and tracking cell populations. Nature Methods, 2014, 11, 1177-1181.	19.0	29
66	The use of preformed nanoparticles in the production of heterogeneous catalysts. Journal of Colloid and Interface Science, 2014, 417, 396-401.	9.4	11
67	Alumina-grafted SBA-15 as a high performance support for Pd-catalysed cinnamyl alcohol selective oxidation. Catalysis Today, 2014, 229, 46-55.	4.4	68
68	A nano-disperse ferritin-core mimetic that efficiently corrects anemia without luminal iron redox activity. Nanomedicine: Nanotechnology, Biology, and Medicine, 2014, 10, 1529-1538.	3.3	69
69	The use of transmission electron microscopy in the quantification of nanoparticle dose. Journal of Physics: Conference Series, 2014, 522, 012055.	0.4	2
70	Measuringin vitrocellular uptake of nanoparticles by transmission electron microscopy. Journal of Physics: Conference Series, 2014, 522, 012058.	0.4	11
71	Quantifying Nanoparticleâ€“Cell Interactions. Microscopy and Microanalysis, 2014, 20, 1300-1301.	0.4	2
72	Hierarchically Ordered Nanoporous Pd/SBA-15 Catalyst for the Aerobic Selective Oxidation of Sterically Challenging Allylic Alcohols. ACS Catalysis, 2013, 3, 2122-2129.	11.2	59

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73	Amphipol-encapsulated CuInS2/ZnS quantum dots with excellent colloidal stability. RSC Advances, 2013, 3, 20559.	3.6	11
74	Quantification of Nanoparticle Dose and Vesicular Inheritance in Proliferating Cells. ACS Nano, 2013, 7, 6129-6137.	14.6	61
75	Tunable Pt nanocatalysts for the aerobic selox of cinnamyl alcohol. Nanoscale, 2013, 5, 5412.	5.6	26
76	Positron Annihilation Studies of Mesoporous Silica MCM-41. Journal of Physics: Conference Series, 2013, 443, 012063.	0.4	2
77	Mesoporous Silicas as Versatile Supports to Tune the Palladiumâ€Catalyzed Selective Aerobic Oxidation of Allylic Alcohols. ChemCatChem, 2013, 5, 939-950.	3.7	55
78	Single-walled carbon nanotubes: differential genotoxic potential associated with physico-chemical properties. Nanotoxicology, 2013, 7, 144-156.	3.0	46
79	Electron Microscopy of Nanoparticles in Cells. Frontiers of Nanoscience, 2013, , 95-120.	0.6	9
80	Graphite Nanoplatelets Produced by Oxidation and Thermal Exfoliation of Graphite and Electrical Conductivities of Their Epoxy Composites. Journal of Nanoscience and Nanotechnology, 2012, 12, 9259-9270.	0.9	1
81	Characterisation of ZnO nanoparticle suspensions for toxicological applications. Journal of Physics: Conference Series, 2012, 371, 012080.	0.4	9
82	STEM mode in the SEM for the analysis of cellular sections prepared by ultramicrotome sectioning. Journal of Physics: Conference Series, 2012, 371, 012021.	0.4	2
83	Quantitative characterization of nanoparticle agglomeration within biological media. Journal of Nanoparticle Research, 2012, 14, 1.	1.9	79
84	TEM analysis of nanoparticle dispersions with application towards the quantification ofin vitrocellular uptake. Journal of Physics: Conference Series, 2012, 371, 012020.	0.4	2
85	Mechanism of cellular uptake of genotoxic silica nanoparticles. Particle and Fibre Toxicology, 2012, 9, 29.	6.2	129
86	Microwave plasma synthesis of lanthanide zirconates from microwave transparent oxides. Dalton Transactions, 2012, 41, 2472.	3.3	9
87	Highest levels of Cu, Mn and Co doped into nanomagnetic magnetosomes through optimized biomineralisation. Journal of Materials Chemistry, 2012, 22, 11919.	6.7	40
88	In situ X-ray diffraction of CaO based CO2 sorbents. Energy and Environmental Science, 2012, 5, 8958.	30.8	46
89	Effect of nanosized carbon black on the morphology, transport, and mechanical properties of rubbery epoxy and silicone composites. Journal of Applied Polymer Science, 2012, 126, 641-652.	2.6	35
90	Metallosurfactants in the preparation of mesoporous silicas. Microporous and Mesoporous Materials, 2012, 151, 264-270.	4.4	16

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91	Dual lanthanide role in the designed synthesis of hollow metal coordination (Prussian Blue) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T	5.6	30
92	Support-Enhanced Selective Aerobic Alcohol Oxidation over Pd/Mesoporous Silicas. ACS Catalysis, 2011, 1, 636-640.	11.2	153
93	STEM mode in the SEM: A practical tool for nanotoxicology. Nanotoxicology, 2011, 5, 215-227.	3.0	26
94	Transport and mechanical properties of vapour grown carbon nanofibre/silicone composites. Composites Part A: Applied Science and Manufacturing, 2011, 42, 1335-1343.	7.6	19
95	Electron Microscopy of Cocatalyst Nanostructures on Semiconductor Photocatalysts. ChemCatChem, 2011, 3, 990-998.	3.7	7
96	Characterisation of graphite nanoplatelets and the physical properties of graphite nanoplatelet/silicone composites for thermal interface applications. Carbon, 2011, 49, 4269-4279.	10.3	112
97	Importance of characterising the cocatalyst structure in the development of photocatalysts for the splitting of water. Journal of Physics: Conference Series, 2010, 241, 012036.	0.4	1
98	In situ studies of titania-supported Au shellâ€“Pd core nanoparticles for the selective aerobic oxidation of crotyl alcohol. Catalysis Today, 2010, 157, 243-249.	4.4	39
99	v: The Role of Ion Migration and Alloy Formation on the Stability of Core Shell Cocatalysts for Photoinduced Water Splitting. Journal of Physical Chemistry C, 2010, 114, 22758-22762.	3.1	9
100	Organosilica Nanoshells with Thin Silica Cross-Linking by Miniemulsion Periphery Polymerization (MEPP). Macromolecules, 2010, 43, 6343-6347.	4.8	11
101	Prussian blue coordination polymer nanobox synthesis using miniemulsion periphery polymerization (MEPP). Chemical Communications, 2010, 46, 4574.	4.1	64
102	The modification of M41S materials: addition of metal clusters and nanoparticles. New Journal of Chemistry, 2010, 34, 1286.	2.8	10
103	Microwave-induced plasma heating and synthesis: In situ temperature measurement of metal oxides and reactions to form ternary oxides. Dalton Transactions, 2010, 39, 6062.	3.3	8
104	Carbonyl substitution chemistry of some trimetallic transition metal cluster complexes with polyfunctional ligands. Journal of Organometallic Chemistry, 2008, 693, 1738-1750.	1.8	10
105	A Novel Approach to FePt Assemblage and Synthesis. Journal of Physical Chemistry C, 2008, 112, 5271-5274.	3.1	10