

# Nicole S Hondow

## List of Publications by Year in descending order

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105  
papers

2,686  
citations

159585

30  
h-index

214800

47  
g-index

113  
all docs

113  
docs citations

113  
times ranked

4684  
citing authors

#	ARTICLE	IF	CITATIONS
1	Support-Enhanced Selective Aerobic Alcohol Oxidation over Pd/Mesoporous Silicas. <i>ACS Catalysis</i> , 2011, 1, 636-640.	11.2	153
2	Mechanism of cellular uptake of genotoxic silica nanoparticles. <i>Particle and Fibre Toxicology</i> , 2012, 9, 29.	6.2	129
3	Characterisation of graphite nanoplatelets and the physical properties of graphite nanoplatelet/silicone composites for thermal interface applications. <i>Carbon</i> , 2011, 49, 4269-4279.	10.3	112
4	Selectivity control in Pt-catalyzed cinnamaldehyde hydrogenation. <i>Scientific Reports</i> , 2015, 5, 9425.	3.3	101
5	Spatially orthogonal chemical functionalization of a hierarchical pore network for catalytic cascade reactions. <i>Nature Materials</i> , 2016, 15, 178-182.	27.5	101
6	Quantitative characterization of nanoparticle agglomeration within biological media. <i>Journal of Nanoparticle Research</i> , 2012, 14, 1.	1.9	79
7	A spatially orthogonal hierarchically porous acid-base catalyst for cascade and antagonistic reactions. <i>Nature Catalysis</i> , 2020, 3, 921-931.	34.4	75
8	Systematic Investigation of the Physicochemical Factors That Contribute to the Toxicity of ZnO Nanoparticles. <i>Chemical Research in Toxicology</i> , 2014, 27, 558-567.	3.3	70
9	A nano-disperse ferritin-core mimetic that efficiently corrects anemia without luminal iron redox activity. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2014, 10, 1529-1538.	3.3	69
10	Alumina-grafted SBA-15 as a high performance support for Pd-catalysed cinnamyl alcohol selective oxidation. <i>Catalysis Today</i> , 2014, 229, 46-55.	4.4	68
11	Prussian blue coordination polymer nanobox synthesis using miniemulsion periphery polymerization (MEPP). <i>Chemical Communications</i> , 2010, 46, 4574.	4.1	64
12	Quantification of Nanoparticle Dose and Vesicular Inheritance in Proliferating Cells. <i>ACS Nano</i> , 2013, 7, 6129-6137.	14.6	61
13	Hierarchically Ordered Nanoporous Pd/SBA-15 Catalyst for the Aerobic Selective Oxidation of Sterically Challenging Allylic Alcohols. <i>ACS Catalysis</i> , 2013, 3, 2122-2129.	11.2	59
14	Mesoporous Silicas as Versatile Supports to Tune the Palladium-Catalyzed Selective Aerobic Oxidation of Allylic Alcohols. <i>ChemCatChem</i> , 2013, 5, 939-950.	3.7	55
15	Dissecting Multivalent Lectin-Carbohydrate Recognition Using Polyvalent Multifunctional Glycan-Quantum Dots. <i>Journal of the American Chemical Society</i> , 2017, 139, 11833-11844.	13.7	54
16	Cell Type-Dependent Changes in CdSe/ZnS Quantum Dot Uptake and Toxic Endpoints. <i>Toxicological Sciences</i> , 2015, 144, 246-258.	3.1	53
17	Genetic toxicity assessment of engineered nanoparticles using a 3D in vitro skin model (EpiDerm). <i>Particle and Fibre Toxicology</i> , 2015, 13, 50.	6.2	51
18	Glycan-Gold Nanoparticles as Multifunctional Probes for Multivalent Lectin-Carbohydrate Binding: Implications for Blocking Virus Infection and Nanoparticle Assembly. <i>Journal of the American Chemical Society</i> , 2020, 142, 18022-18034.	13.7	49

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19	In situ X-ray diffraction of CaO based CO <sub>2</sub> sorbents. <i>Energy and Environmental Science</i> , 2012, 5, 8958.	30.8	46
20	Single-walled carbon nanotubes: differential genotoxic potential associated with physico-chemical properties. <i>Nanotoxicology</i> , 2013, 7, 144-156.	3.0	46
21	Microbial transformations of selenite by methane-oxidizing bacteria. <i>Applied Microbiology and Biotechnology</i> , 2017, 101, 6713-6724.	3.6	42
22	Highest levels of Cu, Mn and Co doped into nanomagnetic magnetosomes through optimized biomineralisation. <i>Journal of Materials Chemistry</i> , 2012, 22, 11919.	6.7	40
23	In vitro detection of in vitro secondary mechanisms of genotoxicity induced by engineered nanomaterials. <i>Particle and Fibre Toxicology</i> , 2019, 16, 8.	6.2	40
24	Nanoparticle modified polyacrylamide for enhanced oil recovery at harsh conditions. <i>Fuel</i> , 2020, 268, 117186.	6.4	40
25	In situ studies of titania-supported Au shell@Pd core nanoparticles for the selective aerobic oxidation of crotyl alcohol. <i>Catalysis Today</i> , 2010, 157, 243-249.	4.4	39
26	Effect of nanosized carbon black on the morphology, transport, and mechanical properties of rubbery epoxy and silicone composites. <i>Journal of Applied Polymer Science</i> , 2012, 126, 641-652.	2.6	35
27	Biomagnetic Recovery and Bioaccumulation of Selenium Granules in Magnetotactic Bacteria. <i>Applied and Environmental Microbiology</i> , 2016, 82, 3886-3891.	3.1	34
28	All-aqueous continuous-flow RAFT dispersion polymerisation for efficient preparation of diblock copolymer spheres, worms and vesicles. <i>Reaction Chemistry and Engineering</i> , 2019, 4, 852-861.	3.7	34
29	Factors Influencing the Surface Functionalization of Citrate Stabilized Gold Nanoparticles with Cysteamine, 3-Mercaptopropionic Acid or L-Selenocystine for Sensor Applications. <i>Chemosensors</i> , 2020, 8, 80.	3.6	34
30	Mixing performance and continuous production of nanomaterials in an advanced-flow reactor. <i>Chemical Engineering Journal</i> , 2021, 412, 128565.	12.7	34
31	Characterizing Nanoparticles in Biological Matrices: Tipping Points in Agglomeration State and Cellular Delivery <i>In Vitro</i> . <i>ACS Nano</i> , 2017, 11, 11986-12000.	14.6	33
32	Selective oxidation of allylic alcohols over highly ordered Pd/meso-Al <sub>2</sub> O <sub>3</sub> catalysts. <i>Catalysis Communications</i> , 2014, 44, 40-45.	3.3	32
33	Dual lanthanide role in the designed synthesis of hollow metal coordination (Prussian Blue) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T 5	5.6	30
34	Nanoparticle vesicle encoding for imaging and tracking cell populations. <i>Nature Methods</i> , 2014, 11, 1177-1181.	19.0	29
35	The effect of pre-activation and milling on improving natural clinoptilolite for ion exchange of cesium and strontium. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 102991.	6.7	28
36	STEM mode in the SEM: A practical tool for nanotoxicology. <i>Nanotoxicology</i> , 2011, 5, 215-227.	3.0	26

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37	Tunable Pt nanocatalysts for the aerobic selox of cinnamyl alcohol. <i>Nanoscale</i> , 2013, 5, 5412.	5.6	26
38	Microscopy of nanoparticulate dispersions. <i>Journal of Microscopy</i> , 2015, 260, 238-247.	1.8	25
39	Methyl Selenol as a Precursor in Selenite Reduction to Se/S Species by Methane-Oxidizing Bacteria. <i>Applied and Environmental Microbiology</i> , 2019, 85, .	3.1	24
40	Cryo-analytical STEM of frozen, aqueous dispersions of nanoparticles. <i>Micron</i> , 2019, 120, 35-42.	2.2	22
41	Genotoxic capacity of Cd/Se semiconductor quantum dots with differing surface chemistries. <i>Mutagenesis</i> , 2015, 31, gev061.	2.6	21
42	$\beta$ -pyrophosphate: A potential biomaterial for dental applications. <i>Materials Science and Engineering C</i> , 2017, 75, 885-894.	7.3	21
43	Analysis of complex, beam-sensitive materials by transmission electron microscopy and associated techniques. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2020, 378, 20190601.	3.4	21
44	In Vitro Primary and Indirect Genotoxicity in Bronchial Epithelial Cells Promoted by Industrially Relevant Few-Layer Graphene. <i>Small</i> , 2021, 17, e2002551.	10.0	21
45	Few-layer graphene induces both primary and secondary genotoxicity in epithelial barrier models in vitro. <i>Journal of Nanobiotechnology</i> , 2021, 19, 24.	9.1	21
46	Synthesis of super bright indium phosphide colloidal quantum dots through thermal diffusion. <i>Communications Chemistry</i> , 2019, 2, .	4.5	20
47	Characterization of Amorphous Solid Dispersions and Identification of Low Levels of Crystallinity by Transmission Electron Microscopy. <i>Molecular Pharmaceutics</i> , 2021, 18, 1905-1919.	4.6	20
48	Transport and mechanical properties of vapour grown carbon nanofibre/silicone composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2011, 42, 1335-1343.	7.6	19
49	Low dose scanning transmission electron microscopy of organic crystals by scanning moiré fringes. <i>Micron</i> , 2019, 120, 1-9.	2.2	19
50	Metal-shell nanocapsules for the delivery of cancer drugs. <i>Journal of Colloid and Interface Science</i> , 2020, 567, 171-180.	9.4	17
51	Metallosurfactants in the preparation of mesoporous silicas. <i>Microporous and Mesoporous Materials</i> , 2012, 151, 264-270.	4.4	16
52	Beam-induced oxidation of mixed-valent Fe (oxyhydr)oxides (green rust) monitored by STEM-EELS. <i>Micron</i> , 2019, 122, 46-52.	2.2	14
53	Quantifying the cellular uptake of semiconductor quantum dot nanoparticles by analytical electron microscopy. <i>Journal of Microscopy</i> , 2016, 261, 167-176.	1.8	12
54	Continuous microfluidic synthesis of zirconium-based UiO-67 using a coiled flow inverter reactor. <i>MethodsX</i> , 2021, 8, 101246.	1.6	12

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55	Organosilica Nanoshells with Thin Silica Cross-Linking by Miniemulsion Periphery Polymerization (MEPP). <i>Macromolecules</i> , 2010, 43, 6343-6347.	4.8	11
56	Amphipol-encapsulated CuInS <sub>2</sub> /ZnS quantum dots with excellent colloidal stability. <i>RSC Advances</i> , 2013, 3, 20559.	3.6	11
57	The use of preformed nanoparticles in the production of heterogeneous catalysts. <i>Journal of Colloid and Interface Science</i> , 2014, 417, 396-401.	9.4	11
58	Measuring <i>in vitro</i> cellular uptake of nanoparticles by transmission electron microscopy. <i>Journal of Physics: Conference Series</i> , 2014, 522, 012058.	0.4	11
59	Statistical prediction of nanoparticle delivery: from culture media to cell. <i>Nanotechnology</i> , 2015, 26, 155101.	2.6	11
60	Carbonyl substitution chemistry of some trimetallic transition metal cluster complexes with polyfunctional ligands. <i>Journal of Organometallic Chemistry</i> , 2008, 693, 1738-1750.	1.8	10
61	A Novel Approach to FePt Assemblage and Synthesis. <i>Journal of Physical Chemistry C</i> , 2008, 112, 5271-5274.	3.1	10
62	The modification of M41S materials: addition of metal clusters and nanoparticles. <i>New Journal of Chemistry</i> , 2010, 34, 1286.	2.8	10
63	Barium Titanate Nanoparticles for Biomarker Applications. <i>Journal of Physics: Conference Series</i> , 2015, 644, 012037.	0.4	10
64	Observation of compositional domains within individual copper indium sulfide quantum dots. <i>Nanoscale</i> , 2016, 8, 16157-16161.	5.6	10
65	Struvite Crystallisation and the Effect of Co <sup>2+</sup> Ions. <i>Minerals (Basel, Switzerland)</i> , 2019, 9, 503.	2.0	10
66	Exploring water in oil emulsions simultaneously stabilized by solid hydrophobic silica nanospheres and hydrophilic soft PNIPAM microgel. <i>Soft Matter</i> , 2021, 17, 8258-8268.	2.7	10
67	v: The Role of Ion Migration and Alloy Formation on the Stability of Core Shell Cocatalysts for Photoinduced Water Splitting. <i>Journal of Physical Chemistry C</i> , 2010, 114, 22758-22762.	3.1	9
68	Characterisation of ZnO nanoparticle suspensions for toxicological applications. <i>Journal of Physics: Conference Series</i> , 2012, 371, 012080.	0.4	9
69	Microwave plasma synthesis of lanthanide zirconates from microwave transparent oxides. <i>Dalton Transactions</i> , 2012, 41, 2472.	3.3	9
70	Electron Microscopy of Nanoparticles in Cells. <i>Frontiers of Nanoscience</i> , 2013, , 95-120.	0.6	9
71	Exploring backscattered imaging in low voltage FE-SEM. <i>Journal of Physics: Conference Series</i> , 2015, 644, 012019.	0.4	9
72	Toward Developing a Predictive Approach To Assess Electron Beam Instability during Transmission Electron Microscopy of Drug Molecules. <i>Molecular Pharmaceutics</i> , 2018, 15, 5114-5123.	4.6	9

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73	Engineering of Microcage Carbon Nanotube Architectures with Decoupled Multimodal Porosity and Amplified Catalytic Performance. <i>Advanced Materials</i> , 2021, 33, e2008307.	21.0	9
74	Microwave-induced plasma heating and synthesis: In situ temperature measurement of metal oxides and reactions to form ternary oxides. <i>Dalton Transactions</i> , 2010, 39, 6062.	3.3	8
75	Electron Microscopy of Cocatalyst Nanostructures on Semiconductor Photocatalysts. <i>ChemCatChem</i> , 2011, 3, 990-998.	3.7	7
76	Photon induced quantum yield regeneration of cap-exchanged CdSe/CdS quantum rods for ratiometric biosensing and cellular imaging. <i>Nanoscale</i> , 2020, 12, 8647-8655.	5.6	7
77	Cryo-STEM-EDX spectroscopy for the characterisation of nanoparticles in cell culture media. <i>Journal of Physics: Conference Series</i> , 2017, 902, 012006.	0.4	6
78	Nanoparticle corona artefacts derived from specimen preparation of particle suspensions. <i>Scientific Reports</i> , 2020, 10, 5278.	3.3	6
79	Arsenic species delay structural ordering during green rust sulfate crystallization from ferrihydrite. <i>Environmental Science: Nano</i> , 2021, 8, 2950-2963.	4.3	6
80	EELS from organic crystalline materials. <i>Journal of Physics: Conference Series</i> , 2014, 522, 012060.	0.4	5
81	Characterisation of polyphosphate coated aluminium-doped titania nanoparticles during milling. <i>Journal of Colloid and Interface Science</i> , 2019, 548, 110-122.	9.4	5
82	Detoxification, Active Uptake, and Intracellular Accumulation of Chromium Species by a Methane-Oxidizing Bacterium. <i>Applied and Environmental Microbiology</i> , 2021, 87, .	3.1	5
83	Tuning stable noble metal nanoparticles dispersions to moderate their interaction with model membranes. <i>Journal of Colloid and Interface Science</i> , 2021, 594, 101-112.	9.4	5
84	Understanding stress-induced disorder and breakage in organic crystals: beyond crystal structure anisotropy. <i>Chemical Science</i> , 2021, 12, 14270-14280.	7.4	5
85	Fibrous aluminosilicate catalyst support for hydrogen production by chemical looping steam reforming. <i>Energy Reports</i> , 2018, 4, 733-743.	5.1	4
86	Analysis of Electron Beam Damage of Crystalline Pharmaceutical Materials by Transmission Electron Microscopy. <i>Journal of Physics: Conference Series</i> , 2015, 644, 012038.	0.4	3
87	Examination of Combustion-Generated Smoke Particles from Biomass at Source: Relation to Atmospheric Light Absorption. <i>Combustion Science and Technology</i> , 2020, 192, 130-143.	2.3	3
88	STEM mode in the SEM for the analysis of cellular sections prepared by ultramicrotome sectioning. <i>Journal of Physics: Conference Series</i> , 2012, 371, 012021.	0.4	2
89	TEM analysis of nanoparticle dispersions with application towards the quantification of in vitro cellular uptake. <i>Journal of Physics: Conference Series</i> , 2012, 371, 012020.	0.4	2
90	Positron Annihilation Studies of Mesoporous Silica MCM-41. <i>Journal of Physics: Conference Series</i> , 2013, 443, 012063.	0.4	2

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91	The use of transmission electron microscopy in the quantification of nanoparticle dose. Journal of Physics: Conference Series, 2014, 522, 012055.	0.4	2
92	Quantifying Nanoparticle-Cell Interactions. Microscopy and Microanalysis, 2014, 20, 1300-1301.	0.4	2
93	Transmission electron microscopy of a model crystalline organic, theophylline. Journal of Physics: Conference Series, 2015, 644, 012030.	0.4	2
94	Analytical Cryo Electron Microscopy for Characterization of Pickering Emulsions. Microscopy and Microanalysis, 2019, 25, 1706-1707.	0.4	2
95	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
96	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
97	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
98	Prospects for High Resolution Analytical Electron Microscopy of Organic Crystalline Particles. Microscopy and Microanalysis, 2015, 21, 397-398.	0.4	1
99	Nanomaterials. Frontiers of Nanoscience, 2015, 8, 183-216.	0.6	1
100	Progress on Cryogenic Analytical STEM of Nanomaterials. Microscopy and Microanalysis, 2019, 25, 1086-1087.	0.4	1
101	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
102	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
103	Hydrothermal Synthesis of Silver Nanoparticles for High Throughput Biosensing Applications. MRS Advances, 2018, 3, 861-866.	0.9	0
104	Quantifying the Dispersion of Nanoparticles by Electron Microscopy. Microscopy and Microanalysis, 2019, 25, 706-707.	0.4	0
105	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