Hugh Doyle

List of Publications by Year
in descending order

41 papers	2,838 citations	331670 21 h-index	330143 37 g-index
43 all docs	43 docs citations	43 times ranked	4198 citing authors

#	Article	IF	Citations
1	Highly Selective Optical Detection of Fe³⁺ Ions in Aqueous Solution Using Labelâ€Free Silicon Nanocrystals. Particle and Particle Systems Characterization, 2019, 36, 1900034.	2.3	5
2	Tuning the Photoluminescence of Germanium Nanocrystals through Surface Bound Functional Groups. Particle and Particle Systems Characterization, 2017, 34, 1600303.	2.3	13
3	Widening the bandwidth of vibration energy harvesters using a liquid-based non-uniform load distribution. Sensors and Actuators A: Physical, 2016, 246, 170-179.	4.1	43
4	Size Controlled Synthesis of Germanium Nanocrystals: Effect of Ge Precursor and Hydride Reducing Agent. Journal of Nanomaterials, 2015, 2015, 1-9.	2.7	19
5	Indium tin oxideâ€“silicon nanocrystal nanocomposite grown by aerosol assisted chemical vapour deposition. Journal of Sol-Gel Science and Technology, 2015, 73, 666-672.	2.4	3
6	Germanium nanocrystals as luminescent probes for rapid, sensitive and label-free detection of Fe³⁺ions. Nanoscale, 2015, 7, 5488-5494.	5.6	20
7	Neutral red retention time assay in determination of toxicity ofÂnanoparticles. Marine Environmental Research, 2015, 111, 158-161.	2.5	21
8	Luminescent Optical Detection of Volatile Electron Deficient Compounds by Conjugated Polymer Nanofibers. Analytical Chemistry, 2015, 87, 4421-4428.	6.5	12
9	Efficient one-pot synthesis of monodisperse alkyl-terminated colloidal germanium nanocrystals. Journal of Nanoparticle Research, 2014, 16, 1.	1.9	10
10	Size Controlled Synthesis of Silicon Nanocrystals Using Cationic Surfactant Templates. Small, 2014, 10, 584-590.	10.0	21
11	Proteomic evaluation of citrate-coated silver nanoparticles toxicity in Daphnia magna. Analyst, The, 2014, 139, 1678-1686.	3.5	51
12	Efficient one-pot synthesis of highly monodisperse carbon quantum dots. RSC Advances, 2014, 4, 18-21.	3.6	37
13	A bottom-up fabrication method for the production of visible light active photonic crystals. Journal of Materials Chemistry C, 2014, 2, 1675-1682.	5.5	9
14	Size and emission color tuning in the solution phase synthesis of highly luminescent germanium nanocrystals. Journal of Materials Chemistry C, 2014, 2, 3562-3568.	5.5	24
15	Size controlled synthesis of carbon quantum dots using hydride reducing agents. Journal of Materials Chemistry C, 2014, 2, 6025-6031.	5.5	46
16	Solution reduction synthesis of amine terminated carbon quantum dots. RSC Advances, 2014, 4, 12094-12097.	3.6	28
17	Gold Nanoparticles and Oxidative Stress in the Blue Mussel, Mytilus edulis. Methods in Molecular Biology, 2013, 1028, 197-203.	0.9	4
18	Silicon nanocrystals: Novel synthesis routes for photovoltaic applications. Physica Status Solidi (A) Applications and Materials Science, 2013, 210, 649-657.	1.8	8

#	Article	IF	Citations
19	Synthesis and Compositional Control of Size Monodisperse SixGe1-x Nanocrystals for Optoelectronic Applications. Materials Research Society Symposia Proceedings, 2013, 1551, 11-16.	0.1	0
20	Size Controlled Synthesis of Silicon Nanocrystals within Inverse Micelles. Materials Research Society Symposia Proceedings, 2013, 1546, 1.	0.1	3
21	Effect of nanoparticles on ferroelectric and electrical properties of novel PMNT thin-films. Thin Solid Films, 2011, 519, 5800-5803.	1.8	4
22	Evaluation of process parameters and nanoparticle seeding of solâ€“gel derived leadâ€“magnesiumâ€“niobium titanate thin films. Advances in Applied Ceramics, 2011, 110, 490-495.	1.1	0
23	Exposure of the blue mussel, Mytilus edulis, to gold nanoparticles and the pro-oxidant menadione. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2010, 151, 167-174.	2.6	57
24	Oxidative stress and toxicity of gold nanoparticles in Mytilus edulis. Aquatic Toxicology, 2010, 100, 178-186.	4.0	264
25	Formation and Electrical Interfacing of Nanocrystal-Molecule Nanostructures. Materials Research Society Symposia Proceedings, 2009, 1154, 1.	0.1	0
26	Toward Portable Instrumentation for Quantitative Cocaine Detection with Lab-on-a-Paper and Hybrid Optical Readout. Procedia Chemistry, 2009, 1, 999-1002.	0.7	13
27	Gold nanoparticles and oxidative stress in Mytilus edulis. Marine Environmental Research, 2008, 66, 131-133.	2.5	107
28	Emission Colour Tuning in Semiconducting Polymer Nanotubes by Energy Transfer to Organoâ€• Lanthanide Dopants. Advanced Materials, 2007, 19, 2474-2479.	21.0	36
29	Detection of nitroaromatic compounds based on photoluminescent side chain polymers. , 2005, 5990, 195.		5
30	Near-infrared electroluminescent devices based on colloidal HgTe quantum dot arrays. Applied Physics Letters, 2005, 86, 201114.	3.3	61
31	A potential and ion switched molecular photonic logic gate. Chemical Communications, 2005, , 3918.	4.1	58
32	Effect of Base Stacking on the Relative Thermodynamic Stability of Oligonucleotide Complexes: A Spectroscopic Study. Journal of Biomolecular Structure and Dynamics, 2004, 22, 195-203.	3.5	1
33	Near-Field Optical Addressing of Luminescent Photoswitchable Supramolecular Systems Embedded in Inert Polymer Matrices. Nano Letters, 2004, 4, 835-839.	9.1	31
34	Title is missing!. Helvetica Chimica Acta, 2002, 85, 2594-2607.	1.6	14
35	Competing interactions in dispersions of superparamagnetic nanoparticles. Physical Review B, 2001, 64, .	3.2	145
36	Monodisperse 3d Transition-Metal (Co,Ni,Fe) Nanoparticles and Their Assembly intoNanoparticle Superlattices. MRS Bulletin, 2001, 26, 985-991.	3.5	510

#	Article	IF	Citations
37	Crystalline, Shape, and Surface Anisotropy in Two Crystal Morphologies of Superparamagnetic Cobalt Nanoparticles by Ferromagnetic Resonance. Journal of Physical Chemistry B, 2001, 105, 7913-7919.	2.6	72
38	Colloidal synthesis of nanocrystals and nanocrystal superlattices. IBM Journal of Research and Development, 2001, 45, 47-56.	3.1	968
39	New Aspects of Nanocrystal Research. MRS Bulletin, 2001, 26, 981-984.	3.5	31
40	Controlled Assembly of Monodisperse Îµ-Cobalt-Based Nanocrystals. Materials Research Society Symposia Proceedings, 1999, 577, 385.	0.1	48
41	Determination of band edge energies for transparent nanocrystalline TiO2_CdS sandwich electrodes prepared by electrodeposition. Solar Energy Materials and Solar Cells, 1995, 39, 83-98.	6.2	36