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	Colloidal synthesis of nanocrystals and nanocrystal superlattices. IBM Journal of Research and Development, 2001, 45, 47-56.	3.1	968
2	Monodisperse 3d Transition-Metal (Co,Ni,Fe) Nanoparticles and Their Assembly intoNanoparticle Superlattices. MRS Bulletin, 2001, 26, 985-991.	3.5	510
3	Oxidative stress and toxicity of gold nanoparticles in Mytilus edulis. Aquatic Toxicology, 2010, 100, 178-186.	4.0	264
4	Competing interactions in dispersions of superparamagnetic nanoparticles. Physical Review B, 2001, 64, .	3.2	145
5	Gold nanoparticles and oxidative stress in Mytilus edulis. Marine Environmental Research, 2008, 66, 131-133.	2.5	107
6	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
7	Near-infrared electroluminescent devices based on colloidal HgTe quantum dot arrays. Applied Physics Letters, 2005, 86, 201114.	3.3	61
8	A potential and ion switched molecular photonic logic gate. Chemical Communications, 2005, , 3918.	4.1	58
9	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
10	Proteomic evaluation of citrate-coated silver nanoparticles toxicity in Daphnia magna. Analyst, The, 2014, 139, 1678-1686.	3.5	51
11	Controlled Assembly of Monodisperse Îµ-Cobalt-Based Nanocrystals. Materials Research Society Symposia Proceedings, 1999, 577, 385.	0.1	48
12	Size controlled synthesis of carbon quantum dots using hydride reducing agents. Journal of Materials Chemistry C, 2014, 2, 6025-6031.	5.5	46
13	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
14	Efficient one-pot synthesis of highly monodisperse carbon quantum dots. RSC Advances, 2014, 4, 18-21.	3.6	37
15	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
16	Emission Colour Tuning in Semiconducting Polymer Nanotubes by Energy Transfer to Organoâ€• Lanthanide Dopants. Advanced Materials, 2007, 19, 2474-2479.	21.0	36
17	New Aspects of Nanocrystal Research. MRS Bulletin, 2001, 26, 981-984.	3.5	31
18	Near-Field Optical Addressing of Luminescent Photoswitchable Supramolecular Systems Embedded in Inert Polymer Matrices. Nano Letters, 2004, 4, 835-839.	9.1	31

#	Article	IF	Citations
19	Solution reduction synthesis of amine terminated carbon quantum dots. RSC Advances, 2014, 4, 12094-12097.	3.6	28
20	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
21	Size Controlled Synthesis of Silicon Nanocrystals Using Cationic Surfactant Templates. Small, 2014, 10, 584-590.	10.0	21
22	Neutral red retention time assay in determination of toxicity ofÂnanoparticles. Marine Environmental Research, 2015, 111, 158-161.	2.5	21
23	Germanium nanocrystals as luminescent probes for rapid, sensitive and label-free detection of Fe³⁺ions. Nanoscale, 2015, 7, 5488-5494.	5.6	20
24	Size Controlled Synthesis of Germanium Nanocrystals: Effect of Ge Precursor and Hydride Reducing Agent. Journal of Nanomaterials, 2015, 2015, 1-9.	2.7	19
25	Title is missing!. Helvetica Chimica Acta, 2002, 85, 2594-2607.	1.6	14
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	Tuning the Photoluminescence of Germanium Nanocrystals through Surface Bound Functional Groups. Particle and Particle Systems Characterization, 2017, 34, 1600303.	2.3	13
28	Luminescent Optical Detection of Volatile Electron Deficient Compounds by Conjugated Polymer Nanofibers. Analytical Chemistry, 2015, 87, 4421-4428.	6.5	12
29	Efficient one-pot synthesis of monodisperse alkyl-terminated colloidal germanium nanocrystals. Journal of Nanoparticle Research, 2014, 16, 1.	1.9	10
30	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
31	Silicon nanocrystals: Novel synthesis routes for photovoltaic applications. Physica Status Solidi (A) Applications and Materials Science, 2013, 210, 649-657.	1.8	8
32	Detection of nitroaromatic compounds based on photoluminescent side chain polymers. , 2005, 5990, 195.		5
33	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
34	Effect of nanoparticles on ferroelectric and electrical properties of novel PMNT thin-films. Thin Solid Films, 2011, 519, 5800-5803.	1.8	4
35	Gold Nanoparticles and Oxidative Stress in the Blue Mussel, Mytilus edulis. Methods in Molecular Biology, 2013, 1028, 197-203.	0.9	4
36	Size Controlled Synthesis of Silicon Nanocrystals within Inverse Micelles. Materials Research Society Symposia Proceedings, 2013, 1546, 1.	0.1	3

#	Article	IF	Citations
37	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
38	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
39	Formation and Electrical Interfacing of Nanocrystal-Molecule Nanostructures. Materials Research Society Symposia Proceedings, 2009, 1154, 1.	0.1	0
40	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
41	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