

# Stephen G Hickey

## List of Publications by Year in descending order

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67  
papers

4,711  
citations

136885

32  
h-index

143943

57  
g-index

72  
all docs

72  
docs citations

72  
times ranked

7152  
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly Luminescent Water-Soluble CdTe Quantum Dots. <i>Nano Letters</i> , 2003, 3, 503-507.	4.5	423
2	Spontaneous Assembly of a Monolayer of Charged Gold Nanocrystals at the Water/Oil Interface. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 458-462.	7.2	411
3	Infrared-Emitting Colloidal Nanocrystals: Synthesis, Assembly, Spectroscopy, and Applications. <i>Small</i> , 2007, 3, 536-557.	5.2	385
4	Single-Step Synthesis to Control the Photoluminescence Quantum Yield and Size Dispersion of CdSe Nanocrystals. <i>Journal of Physical Chemistry B</i> , 2003, 107, 489-496.	1.2	346
5	Quantum-Dot-Based Photoelectrochemical Sensors for Chemical and Biological Detection. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 2800-2814.	4.0	314
6	Size and Shape Control of Colloidally Synthesized IV <sup>~</sup> VI Nanoparticulate Tin(II) Sulfide. <i>Journal of the American Chemical Society</i> , 2008, 130, 14978-14980.	6.6	207
7	The Hidden Role of Acetate in the PbSe Nanocrystal Synthesis. <i>Journal of the American Chemical Society</i> , 2006, 128, 6792-6793.	6.6	186
8	Bright White-Light Emitting Manganese and Copper Co-Doped ZnSe Quantum Dots. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 4432-4436.	7.2	173
9	Progress in the Light Emission of Colloidal Semiconductor Nanocrystals. <i>Small</i> , 2010, 6, 1364-1378.	5.2	159
10	High Efficiency Quantum Dot Heterojunction Solar Cell Using Anatase (001) TiO <sub>2</sub> Nanosheets. <i>Advanced Materials</i> , 2012, 24, 2202-2206.	11.1	150
11	Light Energy Conversion by Mesoscopic PbS Quantum Dots/TiO <sub>2</sub> Heterojunction Solar Cells. <i>ACS Nano</i> , 2012, 6, 3092-3099.	7.3	132
12	Amplified spontaneous emission of surface plasmon polaritons and limitations on the increase of their propagation length. <i>Optics Letters</i> , 2010, 35, 1197.	1.7	115
13	Density of States Measured by Scanning-Tunneling Spectroscopy Sheds New Light on the Optical Transitions in PbSe Nanocrystals. <i>Physical Review Letters</i> , 2005, 95, 086801.	2.9	113
14	Synthesis of Palladium Nanoparticles and Their Applications for Surface-Enhanced Raman Scattering and Electrocatalysis. <i>Journal of Physical Chemistry C</i> , 2010, 114, 21976-21981.	1.5	109
15	Large-Area (over 50 cm × 50 cm) Freestanding Films of Colloidal InP/ZnS Quantum Dots. <i>Nano Letters</i> , 2012, 12, 3986-3993.	4.5	104
16	Photoelectron Spectroscopic Investigations of Chemical Bonding in Organically Stabilized PbS Nanocrystals. <i>Journal of Physical Chemistry B</i> , 2005, 109, 17422-17428.	1.2	103
17	Variable Orbital Coupling in a Two-Dimensional Quantum-Dot Solid Probed on a Local Scale. <i>Physical Review Letters</i> , 2006, 97, 096803.	2.9	81
18	Synthesis and Characterization of Cadmium Phosphide Quantum Dots Emitting in the Visible Red to Near-Infrared. <i>Journal of the American Chemical Society</i> , 2010, 132, 5613-5615.	6.6	79

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19	Ultrasml SnO <sub>2</sub> Nanocrystals: Hot-bubbling Synthesis, Encapsulation in Carbon Layers and Applications in High Capacity Li-Ion Storage. <i>Scientific Reports</i> , 2015, 4, 4647.	1.6	75
20	Photoelectrochemical Studies of CdS Nanoparticle Modified Electrodes: Absorption and Photocurrent Investigations. <i>Journal of Physical Chemistry B</i> , 2000, 104, 7623-7626.	1.2	72
21	Graded alloyed CdZnSe nanocrystals with high luminescence quantum yields and stability for optoelectronic and biological applications. <i>Journal of Materials Chemistry</i> , 2011, 21, 11550.	6.7	67
22	Pb-Organic Mesocrystals: The Relationship between Nanocrystal Orientation and Superlattice Array. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 10776-10781.	7.2	67
23	Mesocrystalline materials and the involvement of oriented attachment – a review. <i>CrystEngComm</i> , 2014, 16, 9408-9424.	1.3	67
24	Photoelectrochemical Studies of CdS Nanoparticle-Modified Electrodes. <i>Journal of Physical Chemistry B</i> , 1999, 103, 4599-4602.	1.2	63
25	Enhancing the efficiency of a dye sensitized solar cell due to the energy transfer between CdSe quantum dots and a designed squaraine dye. <i>RSC Advances</i> , 2012, 2, 2748.	1.7	56
26	Interconnection of Nanoparticles within 2D Superlattices of PbS/Oleic Acid Thin Films. <i>Advanced Materials</i> , 2014, 26, 3042-3049.	11.1	51
27	The distribution and degradation of radiolabeled superparamagnetic iron oxide nanoparticles and quantum dots in mice. <i>Beilstein Journal of Nanotechnology</i> , 2015, 6, 111-123.	1.5	44
28	Absolute Energy Level Positions in CdSe Nanostructures from Potential-Modulated Absorption Spectroscopy (EMAS). <i>ACS Nano</i> , 2017, 11, 12174-12184.	7.3	38
29	Synthesis of Monodisperse PbS Nanoparticles and Their Assembly into Highly Ordered 3D Colloidal Crystals. <i>Zeitschrift Fur Physikalische Chemie</i> , 2007, 221, 427-437.	1.4	37
30	Nanostructured Silver Substrates With Stable and Universal SERS Properties: Application to Organic Molecules and Semiconductor Nanoparticles. <i>Nanoscale Research Letters</i> , 2010, 5, 403-409.	3.1	36
31	Study of the Attachment of Linker Molecules and Their Effects on the Charge Carrier Transfer at Lead Sulfide Nanoparticle Sensitized ZnO Substrates. <i>Journal of Physical Chemistry C</i> , 2011, 115, 13047-13055.	1.5	32
32	Stimuli-responsive hierarchically self-assembled 3D porous polymer-based structures with aligned pores. <i>Journal of Materials Chemistry B</i> , 2013, 1, 1786.	2.9	31
33	Synthesis of Monodisperse Cadmium Phosphide Nanoparticles Using ex-Situ Produced Phosphine. <i>ACS Nano</i> , 2012, 6, 7059-7065.	7.3	30
34	Intensity modulated photocurrent spectroscopy studies of CdS nanoparticle modified electrodes. <i>Electrochimica Acta</i> , 2000, 45, 3277-3282.	2.6	28
35	CdS nanoparticle-modified electrodes for photoelectrochemical studies. <i>Chemical Communications</i> , 1999, , 67-68.	2.2	27
36	Photoelectrochemical Investigations of Semiconductor Nanoparticles and Their Application to Solar Cells. <i>Journal of Physical Chemistry C</i> , 2014, 118, 17123-17141.	1.5	26

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37	Emissive ZnO@Zn <sub>3</sub> P <sub>2</sub> Nanocrystals: Synthesis, Optical, and Optoelectrochemical Properties. <i>Small</i> , 2013, 9, 3415-3422.	5.2	22
38	Optofluidic Sensor: Evaporation Kinetics Detection of Solvents Dissolved with Cd <sub>3</sub> P <sub>2</sub> Colloidal Quantum Dots in a Rolled-Up Microtube. <i>Advanced Optical Materials</i> , 2015, 3, 187-193.	3.6	22
39	Electrochemical and topological characterization of gold(111)-oligo(cyclohexylidene)-gold nanocrystal interfaces. <i>Journal of Electroanalytical Chemistry</i> , 2002, 522, 2-10.	1.9	20
40	Easy and Fast Phase Transfer of CTAB Stabilised Gold Nanoparticles from Water to Organic Phase. <i>Zeitschrift Fur Physikalische Chemie</i> , 2015, 229, 235-245.	1.4	18
41	A versatile approach for coating oxidic surfaces with a range of nanoparticulate materials. <i>Journal of Materials Chemistry C</i> , 2013, 1, 1515.	2.7	15
42	Underpotential deposition of copper on electrodes modified with colloidal gold. <i>Electrochemistry Communications</i> , 1999, 1, 116-118.	2.3	13
43	Wavefunction Mapping of Immobilized InP Semiconductor Nanocrystals. <i>Small</i> , 2009, 5, 808-812.	5.2	12
44	A study of CdS nanoparticle surface states by potential-modulated sub-bandgap spectroscopy. <i>Journal of Electroanalytical Chemistry</i> , 2004, 569, 271-274.	1.9	10
45	Encapsulated Cd <sub>3</sub> P <sub>2</sub> quantum dots emitting from the visible to the near infrared for bio-labelling applications. <i>CrystEngComm</i> , 2014, 16, 9622-9630.	1.3	6
46	Band-Emission Evolutions from Magic-sized Clusters to Nanosized Quantum Dots of Cd <sub>3</sub> As <sub>2</sub> in the Hot-Bubbling Synthesis. <i>Journal of Physical Chemistry C</i> , 2015, 119, 16390-16395.	1.5	6
47	Exciton relaxation in PbS quantum dots. <i>Physica Status Solidi - Rapid Research Letters</i> , 2010, 4, 341-343.	1.2	5
48	Synthesis and characterisation of NIR-emitting nanocrystals for photonic and optoelectronic applications. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2007, 5, 113-118.	1.0	4
49	The Photoelectrochemistry of Assemblies of Semiconductor Nanoparticles at Interfaces. <i>Zeitschrift Fur Physikalische Chemie</i> , 2018, 232, 1567-1582.	1.4	4
50	Publisher's Note: Variable Orbital Coupling in a Two-Dimensional Quantum-Dot Solid Probed on a Local Scale [Phys. Rev. Lett.97, 096803 (2006)]. <i>Physical Review Letters</i> , 2006, 97, .	2.9	3
51	Preparation of near-infrared absorbing composites comprised of conjugated macroligands on the surface of PbS nanoparticles. <i>Polymer</i> , 2013, 54, 5525-5533.	1.8	3
52	Relationship of the nanocrystal morphology and atomistic structure with respect to the superstructure ordering within PbS- and Gold-Mesocrystals. <i>Materials Research Society Symposia Proceedings</i> , 2014, 1705, 14.	0.1	2
53	Segmental Mobility Studies of Poly( <i>N</i> -isopropyl acrylamide) Interactions with Gold Nanoparticles and Its Use as a Thermally Driven Trapping System. <i>Macromolecular Rapid Communications</i> , 2018, 39, e1800090.	2.0	2
54	Single-Step Synthesis to Control the Photoluminescence Quantum Yield and Size Dispersion of CdSe Nanocrystals.. <i>ChemInform</i> , 2003, 34, no.	0.1	1

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55	Synthesis of radioactively labelled CdSe/CdS/ZnS quantum dots for in vivo experiments. Beilstein Journal of Nanotechnology, 2014, 5, 2383-2387.	1.5	1
56	Self-assembled macroscopic structures of gold nanoparticles. Proceedings of SPIE, 2007, , .	0.8	0
57	NIR-emitting nanocrystals for photonic applications. , 2007, , .		0
58	The use of nanocrystals with emission in the visible or near infrared and their applications for photonics and optoelectronics. Proceedings of SPIE, 2009, , .	0.8	0
59	Emissive Semiconductor Nanocrystals: Recent Progress. ECS Transactions, 2012, 45, 61-66.	0.3	0
60	Low-band gap nanoparticles embedded in high-K dielectrics. , 2012, , .		0
61	Large-area (> 50 cm Å— 50 cm), freestanding, flexible, optical membranes of Cd-free nanocrystal quantum dots. , 2012, , .		0
62	Effect of Electrochemical Charge Injection on the Photoluminescence Properties of CdSe Quantum Dot Monolayers Anchored to Oxide Substrates. Zeitschrift Fur Physikalische Chemie, 2013, , 130311033635007.	1.4	0
63	Thomas Wolff. Zeitschrift Fur Physikalische Chemie, 2014, 228, 127-128.	1.4	0
64	Excitable Oil Droplets â€•FRET Across a Liquidâ€•Liquid Phase Boundary. ChemistrySelect, 2016, 1, 4062-4067.	0.7	0
65	ONE POT SYNTHESIS AND SUBSEQUENT CHARACTERISATION OF THE LEAD CHALCOGENIDES. , 2005, , .		0
66	RELAXATION PROCESSES IN LEAD SULFIDE QUANTUM DOTS. , 2007, , .		0
67	DEMONSTRATION OF SHAPE AND SIZE CONTROL OF APPLICATIONS RELEVANT COLLOIDALLY SYNTHESIZED IV-VI NANOPARTICULATE TIN(II) SULFIDE. , 2009, , .		0