

# Preston T Snee

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

67 papers	2,855 citations	28 h-index	53 g-index
73 ext. papers	3,139 ext. citations	8.4 avg, IF	5.23 L-index

#	Paper	IF	Citations
67	Colloidal stability and aggregation kinetics of nanocrystal CdSe/ZnS quantum dots in aqueous systems: Effects of ionic strength, electrolyte type, and natural organic matter. <i>SN Applied Sciences</i> , <b>2022</b> , 4, 1	1.8	2
66	Leveraging lifetime information to perform real-time 3D single-particle tracking in noisy environments. <i>Journal of Chemical Physics</i> , <b>2021</b> , 155, 164201	3.9	1
65	DFT Calculations of InP Quantum Dots: Model Chemistries, Surface Passivation, and Open-Shell Singlet Ground States. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 11765-11772	3.8	4
64	Experimental measurements and numerical simulations of the transport and retention of nanocrystal CdSe/ZnS quantum dots in saturated porous media: effects of pH, organic ligand, and natural organic matter. <i>Environmental Science and Pollution Research</i> , <b>2021</b> , 28, 8050-8073	5.1	3
63	Cytosolic delivery of membrane-penetrating QDs into T cell lymphocytes: implications in immunotherapy and drug delivery. <i>Nanoscale</i> , <b>2021</b> , 13, 5519-5529	7.7	3
62	Charge carrier pairing can impart efficient reduction efficiency to core/shell quantum dots: applications for chemical sensing. <i>Nanoscale</i> , <b>2020</b> , 12, 23052-23060	7.7	3
61	Semiconductor quantum dot FRET: Untangling energy transfer mechanisms in bioanalytical assays. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2020</b> , 123, 115750	14.6	12
60	Sterically Encumbered Tris(trialkylsilyl) Phosphine Precursors for Quantum Dot Synthesis. <i>Inorganic Chemistry</i> , <b>2020</b> , 59, 15928-15935	5.1	4
59	Colloidal stability and aggregation kinetics of nanocrystal CdSe/ZnS quantum dots in aqueous systems: effects of pH and organic ligands. <i>Journal of Nanoparticle Research</i> , <b>2020</b> , 22, 1	2.3	2
58	Electronic Structure and Dynamics of Copper-Doped Indium Phosphide Nanocrystals Studied with Time-Resolved X-ray Absorption and Large-Scale DFT Calculations. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 11145-11151	3.8	11
57	Colloidal Synthesis of Bulk-Bandgap Lead Selenide Nanocrystals. <i>Frontiers in Chemistry</i> , <b>2018</b> , 6, 562	5	2
56	The Role of Colloidal Stability and Charge in Functionalization of Aqueous Quantum Dots. <i>Accounts of Chemical Research</i> , <b>2018</b> , 51, 2949-2956	24.3	20
55	Anomalous Perturbation of the O <sub>2</sub> Sensitivity of Poly(aromatic) Hydrocarbons by Magnetic Quantum Dots. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 4060-4065	3.8	3
54	Synthesis of High-Quality AgSbSe <sub>2</sub> and AgBiSe <sub>2</sub> Nanocrystals with Antimony and Bismuth Silylamide Reagents. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 4597-4602	9.6	8
53	Charge Carriers Modulate the Bonding of Semiconductor Nanoparticle Dopants As Revealed by Time-Resolved X-ray Spectroscopy. <i>ACS Nano</i> , <b>2017</b> , 11, 10070-10076	16.7	16
52	Quantitative Imaging and In Situ Concentration Measurements of Quantum Dot Nanomaterials in Variably Saturated Porous Media. <i>Journal of Nanomaterials</i> , <b>2016</b> , 2016, 1-10	3.2	6
51	Synthetic Developments of Nontoxic Quantum Dots. <i>ChemPhysChem</i> , <b>2016</b> , 17, 598-617	3.2	64

50	Arsenic Silylamide: An Effective Precursor for Arsenide Semiconductor Nanocrystal Synthesis. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 4058-4064	9.6	15
49	Ratiometric QD-FRET Sensing of Aqueous H <sub>2</sub> S in Vitro. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 6050-6	7.8	37
48	Synthesis and characterization of DNA-quantum dot conjugates for the fluorescence ratiometric detection of unlabelled DNA. <i>Analyst, The</i> , <b>2016</b> , 141, 6251-6258	5	21
47	Detection of Hypoxia using a Ratiometric Quantum Dot-based Oxygen Sensor. <i>ACS Sensors</i> , <b>2016</b> , 1, 1244-1250	9.1	29
46	A toolkit for bioimaging using near-infrared AgInS/ZnS quantum dots. <i>Journal of Materials Chemistry B</i> , <b>2015</b> , 3, 8188-8196	7.3	27
45	Bright Type II Quantum Dots. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 7276-7281	9.6	37
44	Monolayer Silane-Coated, Water-Soluble Quantum Dots. <i>Small</i> , <b>2015</b> , 11, 6091-6	11	16
43	QD-Based FRET Probes at a Glance. <i>Sensors</i> , <b>2015</b> , 15, 13028-51	3.8	44
42	A primer on the synthesis, water-solubilization, and functionalization of quantum dots, their use as biological sensing agents, and present status. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 837-55	3.6	75
41	Ratiometric CdSe/ZnS quantum dot protein sensor. <i>Analytical Chemistry</i> , <b>2014</b> , 86, 2380-6	7.8	66
40	Cluster-seeded synthesis of doped CdSe:Cu <sub>4</sub> quantum dots. <i>ACS Nano</i> , <b>2013</b> , 7, 3190-7	16.7	68
39	Primary charge carrier dynamics of water-solubilized CdZnS/ZnS core/shell and CdZnS/ZnS/Pd nanoparticle adducts. <i>Chemical Physics Letters</i> , <b>2013</b> , 573, 56-62	2.5	14
38	Ultrafast exciton dynamics in colloidal aluminum phosphide nanocrystals. <i>Chemical Physics Letters</i> , <b>2013</b> , 557, 129-133	2.5	4
37	Acidic domain in dentin phosphophoryn facilitates cellular uptake: implications in targeted protein delivery. <i>Journal of Biological Chemistry</i> , <b>2013</b> , 288, 16098-109	5.4	23
36	Water-solubilization and functionalization of semiconductor quantum dots. <i>Methods in Molecular Biology</i> , <b>2013</b> , 1025, 29-45	1.4	3
35	Energy Transfer of CdSe/ZnS Nanocrystals Encapsulated with Rhodamine-Dye Functionalized Poly(acrylic acid). <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2012</b> , 248, 24-29	4.7	14
34	A Nanocrystal-based Ratiometric pH Sensor for Natural pH Ranges. <i>Chemical Science</i> , <b>2012</b> , 3, 2980-2985	9.4	56
33	Efficient functionalization of aqueous CdSe/ZnS nanocrystals using small-molecule chemical activators. <i>Chemical Communications</i> , <b>2011</b> , 47, 3532-4	5.8	15

32	Synthesis and Characterization of Semiconductor Tantalum Nitride Nanoparticles. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 647-652	3.8	28
31	Detection of toxic mercury ions using a ratiometric CdSe/ZnS nanocrystal sensor. <i>Chemical Communications</i> , <b>2011</b> , 47, 7773-5	5.8	68
30	Shape-controlled colloidal synthesis of rock-salt lead selenide nanocrystals. <i>ACS Nano</i> , <b>2011</b> , 5, 6465-71	16.7	15
29	Formation of Sol-Gel-Derived TaOxNy Photocatalysts. <i>Chemistry of Materials</i> , <b>2011</b> , 23, 4721-4725	9.6	18
28	Water-soluble semiconductor nanocrystals cap exchanged with metalated ligands. <i>ACS Nano</i> , <b>2011</b> , 5, 546-50	16.7	65
27	Quantifying Quantum Dots through Förster Resonant Energy Transfer. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 19578-19582	3.8	31
26	Effects of surface chemistry and shape on nonlinear absorption, scattering, and refraction of PbSe nanocrystals <b>2011</b> ,		1
25	Multivariable Response of Semiconductor Nanocrystal-Dye Sensors: The Case of pH. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 21348-21352	3.8	19
24	Effects of Surface Chemistry on Nonlinear Absorption, Scattering, and Refraction of PbSe and PbS Nanocrystals. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 16257-16262	3.8	39
23	Coupled effects of solution chemistry and hydrodynamics on the mobility and transport of quantum dot nanomaterials in the vadose zone. <i>Journal of Contaminant Hydrology</i> , <b>2010</b> , 118, 184-98	3.9	35
22	Applications of colloidal quantum dots. <i>Microelectronics Journal</i> , <b>2009</b> , 40, 644-649	1.8	35
21	Poly(ethylene glycol) carbodiimide coupling reagents for the biological and chemical functionalization of water-soluble nanoparticles. <i>ACS Nano</i> , <b>2009</b> , 3, 915-23	16.7	82
20	Imparting nanoparticle function with size-controlled amphiphilic polymers. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 3744-5	16.4	90
19	Synthesis and functionalization of non-toxic visible-emitting nanocrystals <b>2008</b> ,		1
18	Efficient emission from core/(doped) shell nanoparticles: applications for chemical sensing. <i>Nano Letters</i> , <b>2007</b> , 7, 3429-32	11.5	157
17	Color-saturated green-emitting QD-LEDs. <i>Angewandte Chemie - International Edition</i> , <b>2006</b> , 45, 5796-9	16.4	233
16	Color-Saturated Green-Emitting QD-LEDs. <i>Angewandte Chemie</i> , <b>2006</b> , 118, 5928-5931	3.6	16
15	A ratiometric CdSe/ZnS nanocrystal pH sensor. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 13320-4	16.4	471

14	A solvent-stable nanocrystal-silica composite laser. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 3146-7	16.4	43
13	Non-linear transduction strategies for chemo/biosensing on small length scales. <i>Journal of Materials Chemistry</i> , <b>2005</b> , 15, 2697		19
12	A low-threshold, high-efficiency microfluidic waveguide laser. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 8952-3	16.4	207
11	Mechanism of ligand exchange studied using transition path sampling. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 1286-90	16.4	21
10	Blue semiconductor nanocrystal laser. <i>Applied Physics Letters</i> , <b>2005</b> , 86, 073102	3.4	139
9	Single quantum dot (QD) imaging of fluid flow near surfaces. <i>Experiments in Fluids</i> , <b>2005</b> , 39, 784-786	2.5	38
8	Dynamics of an Excess Electron at Metal/Polar Interfaces. <i>Journal of Physical Chemistry B</i> , <b>2003</b> , 107, 13608-13615	3.4	5
7	Ultrafast UV pump/IR probe studies of C-H activation in linear, cyclic, and aryl hydrocarbons. <i>Journal of the American Chemical Society</i> , <b>2002</b> , 124, 10605-12	16.4	49
6	Dynamics of Photosubstitution Reactions of Fe(CO) <sub>5</sub> : An Ultrafast Infrared Study of High Spin Reactivity. <i>Journal of the American Chemical Society</i> , <b>2001</b> , 123, 6909-6915	16.4	58
5	Intramolecular rearrangements on ultrafast timescales: femtosecond infrared studies of ring slip in (eta(1)-C(5)Cl(5))Mn(CO)(5). <i>Journal of the American Chemical Society</i> , <b>2001</b> , 123, 7425-6	16.4	3
4	Triplet organometallic reactivity under ambient conditions: an ultrafast UV pump/IR probe study. <i>Journal of the American Chemical Society</i> , <b>2001</b> , 123, 2255-64	16.4	72
3	Femtosecond infrared study of the dynamics of solvation and solvent caging. <i>Journal of the American Chemical Society</i> , <b>2001</b> , 123, 4204-10	16.4	31
2	Femtosecond Infrared Studies of a Prototypical One-Electron Oxidative-Addition Reaction: Chlorine Atom Abstraction by the Re(CO) <sub>5</sub> Radical. <i>Journal of the American Chemical Society</i> , <b>1999</b> , 121, 9227-9228	16.4	11
1	Ultrafast Infrared Studies of the Reaction Mechanism of Silicon-Hydrogen Bond Activation by [CpV(CO) <sub>4</sub> ]. <i>Journal of Physical Chemistry A</i> , <b>1999</b> , 103, 10426-10432	2.8	26