

Andrew M Smith

List of Publications by Year in descending order

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72
papers

10,961
citations

109137

35
h-index

85405

71
g-index

75
all docs

75
docs citations

75
times ranked

16370
citing authors

#	ARTICLE	IF	CITATIONS
1	Second window for in vivo imaging. <i>Nature Nanotechnology</i> , 2009, 4, 710-711.	15.6	2,257
2	Semiconductor Nanocrystals: Structure, Properties, and Band Gap Engineering. <i>Accounts of Chemical Research</i> , 2010, 43, 190-200.	7.6	1,517
3	Bioconjugated quantum dots for in vivo molecular and cellular imaging. <i>Advanced Drug Delivery Reviews</i> , 2008, 60, 1226-1240.	6.6	1,067
4	Tuning the optical and electronic properties of colloidal nanocrystals by lattice strain. <i>Nature Nanotechnology</i> , 2009, 4, 56-63.	15.6	695
5	Semiconductor Quantum Dots for Bioimaging and Biodiagnostic Applications. <i>Annual Review of Analytical Chemistry</i> , 2013, 6, 143-162.	2.8	559
6	A systematic examination of surface coatings on the optical and chemical properties of semiconductor quantum dots. <i>Physical Chemistry Chemical Physics</i> , 2006, 8, 3895.	1.3	413
7	Quantum dots in biology and medicine. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2004, 25, 1-12.	1.3	337
8	Multicolor quantum dots for molecular diagnostics of cancer. <i>Expert Review of Molecular Diagnostics</i> , 2006, 6, 231-244.	1.5	322
9	Nanoparticles for Combination Drug Therapy. <i>ACS Nano</i> , 2013, 7, 9518-9525.	7.3	306
10	Oxidative Quenching and Degradation of Polymer-Encapsulated Quantum Dots: New Insights into the Long-Term Fate and Toxicity of Nanocrystals in Vivo. <i>Journal of the American Chemical Society</i> , 2008, 130, 10836-10837.	6.6	261
11	Chemical analysis and cellular imaging with quantum dots. <i>Analyst</i> , 2004, 129, 672.	1.7	216
12	Quantum dots and multifunctional nanoparticles: new contrast agents for tumor imaging. <i>Nanomedicine</i> , 2006, 1, 209-217.	1.7	201
13	Minimizing the Hydrodynamic Size of Quantum Dots with Multifunctional Multidentate Polymer Ligands. <i>Journal of the American Chemical Society</i> , 2008, 130, 11278-11279.	6.6	193
14	Engineering Luminescent Quantum Dots for In Vivo Molecular and Cellular Imaging. <i>Annals of Biomedical Engineering</i> , 2006, 34, 3-14.	1.3	175
15	Next-generation quantum dots. <i>Nature Biotechnology</i> , 2009, 27, 732-733.	9.4	159
16	Bright and Compact Alloyed Quantum Dots with Broadly Tunable Near-Infrared Absorption and Fluorescence Spectra through Mercury Cation Exchange. <i>Journal of the American Chemical Society</i> , 2011, 133, 24-26.	6.6	155
17	Quantum Dot Nanocrystals for In Vivo Molecular and Cellular Imaging. <i>Photochemistry and Photobiology</i> , 2004, 80, 377.	1.3	148
18	Physical Chemistry of Nanomedicine: Understanding the Complex Behaviors of Nanoparticles in Vivo. <i>Annual Review of Physical Chemistry</i> , 2015, 66, 521-547.	4.8	146

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19	Minimizing Nonspecific Cellular Binding of Quantum Dots with Hydroxyl-Derivatized Surface Coatings. <i>Analytical Chemistry</i> , 2008, 80, 3029-3034.	3.2	129
20	Quantum Dot Nanocrystals for In Vivo Molecular and Cellular Imaging. <i>Photochemistry and Photobiology</i> , 2004, 80, 377.	1.3	128
21	Rapid 3D Extrusion of Synthetic Tumor Microenvironments. <i>Advanced Materials</i> , 2015, 27, 5512-5517.	11.1	124
22	Brightness-equalized quantum dots. <i>Nature Communications</i> , 2015, 6, 8210.	5.8	105
23	Efficient Targeting of Adipose Tissue Macrophages in Obesity with Polysaccharide Nanocarriers. <i>ACS Nano</i> , 2016, 10, 6952-6962.	7.3	82
24	One-Pot Synthesis, Encapsulation, and Solubilization of Size-Tuned Quantum Dots with Amphiphilic Multidentate Ligands. <i>Journal of the American Chemical Society</i> , 2008, 130, 12866-12867.	6.6	81
25	Quantum dot surface engineering: Toward inert fluorophores with compact size and bright, stable emission. <i>Coordination Chemistry Reviews</i> , 2016, 320-321, 216-237.	9.5	74
26	Multidentate Polymer Coatings for Compact and Homogeneous Quantum Dots with Efficient Bioconjugation. <i>Journal of the American Chemical Society</i> , 2016, 138, 3382-3394.	6.6	70
27	Compact and Blinking-Suppressed Quantum Dots for Single-Particle Tracking in Live Cells. <i>Journal of Physical Chemistry B</i> , 2014, 118, 14140-14147.	1.2	61
28	Stable Small Quantum Dots for Synaptic Receptor Tracking on Live Neurons. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 12484-12488.	7.2	60
29	Mapping the spatial distribution of charge carriers in quantum-confined heterostructures. <i>Nature Communications</i> , 2014, 5, 4506.	5.8	57
30	Activatable and Cell-Penetrable Multiplex FRET Nanosensor for Profiling MT1-MMP Activity in Single Cancer Cells. <i>Nano Letters</i> , 2015, 15, 5025-5032.	4.5	50
31	Digital-resolution detection of microRNA with single-base selectivity by photonic resonator absorption microscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 19362-19367.	3.3	48
32	Proton-resistant quantum dots: Stability in gastrointestinal fluids and implications for oral delivery of nanoparticle agents. <i>Nano Research</i> , 2009, 2, 500-508.	5.8	44
33	Molecular profiling of single cancer cells and clinical tissue specimens with semiconductor quantum dots. <i>International Journal of Nanomedicine</i> , 2006, 1, 473-481.	3.3	41
34	Measuring and Predicting the Internal Structure of Semiconductor Nanocrystals through Raman Spectroscopy. <i>Journal of the American Chemical Society</i> , 2016, 138, 10887-10896.	6.6	38
35	Single quantum dot tracking reveals the impact of nanoparticle surface on intracellular state. <i>Nature Communications</i> , 2018, 9, 1830.	5.8	38
36	Nanocrystal Synthesis in an Amphibious Bath: Spontaneous Generation of Hydrophilic and Hydrophobic Surface Coatings. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 9916-9921.	7.2	37

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37	Epigenetic regulation of the PGE2 pathway modulates macrophage phenotype in normal and pathologic wound repair. <i>JCI Insight</i> , 2020, 5, .	2.3	37
38	Enhanced mRNA FISH with compact quantum dots. <i>Nature Communications</i> , 2018, 9, 4461.	5.8	35
39	Three-dimensional microscale hanging drop arrays with geometric control for drug screening and live tissue imaging. <i>Science Advances</i> , 2021, 7, .	4.7	34
40	3D microscopy and deep learning reveal the heterogeneity of crown-like structure microenvironments in intact adipose tissue. <i>Science Advances</i> , 2021, 7, .	4.7	31
41	Short-Wave Infrared Quantum Dots with Compact Sizes as Molecular Probes for Fluorescence Microscopy. <i>Journal of the American Chemical Society</i> , 2020, 142, 3449-3462.	6.6	30
42	Small Quantum Dots Conjugated to Nanobodies as Immunofluorescence Probes for Nanometric Microscopy. <i>Bioconjugate Chemistry</i> , 2014, 25, 2205-2211.	1.8	29
43	Optical determination of crystal phase in semiconductor nanocrystals. <i>Nature Communications</i> , 2017, 8, 14849.	5.8	29
44	Expanding the Dynamic Range of Fluorescence Assays through Single-Molecule Counting and Intensity Calibration. <i>Journal of the American Chemical Society</i> , 2018, 140, 13904-13912.	6.6	29
45	Pixelated spatial gene expression analysis from tissue. <i>Nature Communications</i> , 2018, 9, 202.	5.8	24
46	Multimodal Nanocarrier Probes Reveal Superior Biodistribution Quantification by Isotopic Analysis over Fluorescence. <i>ACS Nano</i> , 2020, 14, 509-523.	7.3	23
47	High-Fidelity Single Molecule Quantification in a Flow Cytometer Using Multiparametric Optical Analysis. <i>ACS Nano</i> , 2020, 14, 2324-2335.	7.3	22
48	Compact characterization of liquid absorption and emission spectra using linear variable filters integrated with a CMOS imaging camera. <i>Scientific Reports</i> , 2016, 6, 29117.	1.6	20
49	Zwitterion and Oligo(ethylene glycol) Synergy Minimizes Nonspecific Binding of Compact Quantum Dots. <i>ACS Nano</i> , 2020, 14, 3227-3241.	7.3	20
50	The more exotic shapes of semiconductor nanocrystals: emerging applications in bioimaging. <i>Current Opinion in Chemical Engineering</i> , 2014, 4, 137-143.	3.8	18
51	Lipoprotein Nanoplatelets: Brightly Fluorescent, Zwitterionic Probes with Rapid Cellular Entry. <i>Journal of the American Chemical Society</i> , 2016, 138, 64-67.	6.6	17
52	Counting growth factors in single cells with infrared quantum dots to measure discrete stimulation distributions. <i>Nature Communications</i> , 2019, 10, 909.	5.8	17
53	The bright future: Imaging dynamic cellular events with quantum dots. <i>Biochemist</i> , 2010, 32, 12-17.	0.2	17
54	Dextran-Mimetic Quantum Dots for Multimodal Macrophage Imaging <i>In Vivo</i> , <i>Ex Vivo</i> , and <i>In Situ</i> . <i>ACS Nano</i> , 2022, 16, 1999-2012.	7.3	17

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55	Optimizing Quantum Dot Probe Size for Single-Receptor Imaging. <i>ACS Nano</i> , 2020, 14, 8343-8358.	7.3	16
56	Regulation of tubulin polypeptides and microtubule function: Rki1p interacts with the β -tubulin binding protein Rbl2p. <i>Chromosoma</i> , 1998, 107, 471-478.	1.0	15
57	Multiscale Imaging of Nanoparticle Drug Delivery. <i>Current Drug Targets</i> , 2015, 16, 560-570.	1.0	15
58	Nanocarriers targeting adipose macrophages increase glucocorticoid anti-inflammatory potency to ameliorate metabolic dysfunction. <i>Biomaterials Science</i> , 2021, 9, 506-518.	2.6	12
59	Compact Quantum Dots for Single-molecule Imaging. <i>Journal of Visualized Experiments</i> , 2012, , .	0.2	10
60	Structural Contributions to Hydrodynamic Diameter for Quantum Dots Optimized for Live-Cell Single-Molecule Tracking. <i>Journal of Physical Chemistry C</i> , 2018, 122, 17406-17412.	1.5	10
61	Quantum Dot Nanocrystals for <i>In Vivo</i> Molecular and Cellular Imaging. <i>Photochemistry and Photobiology</i> , 2004, 80, 377-385.	1.3	9
62	Imaging dynamic cellular events with quantum dots The bright future. <i>Biochemist</i> , 2010, 32, 12.	0.2	8
63	Development of Stable Small Quantum Dots for AMPA Receptor Tracking at Neuronal Synapses. <i>Biophysical Journal</i> , 2014, 106, 605a-606a.	0.2	2
64	Antibody Self-Assembly Maximizes Cytoplasmic Immunostaining Accuracy of Compact Quantum Dots. <i>Chemistry of Materials</i> , 2021, 33, 4877-4889.	3.2	2
65	Structural Design of Multidentate Copolymers as Compact Quantum Dot Coatings for Live-Cell Single-Particle Imaging. <i>Chemistry of Materials</i> , 2022, 34, 4621-4632.	3.2	2
66	Construction, release and cellular imaging application of triethylamine-responsive fluorescent quantum dots based on supramolecular self-assembly. <i>European Polymer Journal</i> , 2021, 148, 110353.	2.6	1
67	Size-Minimized Quantum Dots for Molecular and Cellular Imaging. <i>Springer Series in Chemical Physics</i> , 2010, , 187-201.	0.2	1
68	Compact Quantum Dots for Quantitative Cytology. <i>Methods in Molecular Biology</i> , 2020, 2064, 147-158.	0.4	1
69	Rapid quantification of microRNA-375 through one-pot primer-generating rolling circle amplification. <i>Analyst</i> , 2022, 147, 2936-2941.	1.7	1
70	Brightness-equalized quantum dots: Engineering strategies derived from spectral trends. <i>Proceedings of SPIE</i> , 2015, , .	0.8	0
71	Fluorescence In Situ Hybridization with Quantum Dot Labels in <i>E. coli</i> Cells. <i>Methods in Molecular Biology</i> , 2021, 2246, 141-155.	0.4	0
72	Inorganic-Ligand Quantum Dots Meet Inorganic-Ligand Semiconductor Nanoplatelets: A Promising Fusion to Construct All-Inorganic Assembly. <i>Inorganic Chemistry</i> , 2021, 60, 6994-6998.	1.9	0