

Alexander Eychmüller

List of Publications by Year in descending order

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378
papers

27,616
citations

4658

85
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153
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396
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396
docs citations

396
times ranked

27838
citing authors

#	ARTICLE	IF	CITATIONS
1	Thiol-Capping of CdTe Nanocrystals: An Alternative to Organometallic Synthetic Routes. <i>Journal of Physical Chemistry B</i> , 2002, 106, 7177-7185.	2.6	1,485
2	Brown adipose tissue activity controls triglyceride clearance. <i>Nature Medicine</i> , 2011, 17, 200-205.	30.7	1,367
3	Aqueous Synthesis of Thiol-Capped CdTe Nanocrystals: State-of-the-Art. <i>Journal of Physical Chemistry C</i> , 2007, 111, 14628-14637.	3.1	703
4	Strongly Photoluminescent CdTe Nanocrystals by Proper Surface Modification. <i>Journal of Physical Chemistry B</i> , 1998, 102, 8360-8363.	2.6	678
5	Engineering Ordered and Nonordered Porous Noble Metal Nanostructures: Synthesis, Assembly, and Their Applications in Electrochemistry. <i>Chemical Reviews</i> , 2015, 115, 8896-8943.	47.7	576
6	Synthesis and Characterization of a Size Series of Extremely Small Thiol-Stabilized CdSe Nanocrystals. <i>Journal of Physical Chemistry B</i> , 1999, 103, 3065-3069.	2.6	565
7	Determination of the Fluorescence Quantum Yield of Quantum Dots: Suitable Procedures and Achievable Uncertainties. <i>Analytical Chemistry</i> , 2009, 81, 6285-6294.	6.5	556
8	Quantum-dot quantum well CdS/HgS/CdS: Theory and experiment. <i>Physical Review B</i> , 1994, 49, 17072-17078.	3.2	386
9	Infrared-Emitting Colloidal Nanocrystals: Synthesis, Assembly, Spectroscopy, and Applications. <i>Small</i> , 2007, 3, 536-557.	10.0	385
10	Structure and Photophysics of Semiconductor Nanocrystals. <i>Journal of Physical Chemistry B</i> , 2000, 104, 6514-6528.	2.6	350
11	Seeded Growth Synthesis of Uniform Gold Nanoparticles with Diameters of 15~300 nm. <i>Journal of Physical Chemistry C</i> , 2011, 115, 4502-4506.	3.1	347
12	Surface distortion as a unifying concept and descriptor in oxygen reduction reaction electrocatalysis. <i>Nature Materials</i> , 2018, 17, 827-833.	27.5	344
13	Monodisperse Platinum Nanospheres with Adjustable Diameters from 10 to 100 nm: Synthesis and Distinct Optical Properties. <i>Nano Letters</i> , 2008, 8, 4588-4592.	9.1	333
14	Noble Metal Aerogels: Synthesis, Characterization, and Application as Electrocatalysts. <i>Accounts of Chemical Research</i> , 2015, 48, 154-162.	15.6	313
15	Colloidally Prepared HgTe Nanocrystals with Strong Room-Temperature Infrared Luminescence. <i>Advanced Materials</i> , 1999, 11, 552-555.	21.0	312
16	Light-Emitting Diodes with Semiconductor Nanocrystals. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 6538-6549.	13.8	305
17	Modern Inorganic Aerogels. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 13200-13221.	13.8	303
18	Chemistry and photophysics of thiol-stabilized II-VI semiconductor nanocrystals. <i>Pure and Applied Chemistry</i> , 2000, 72, 179-188.	1.9	292

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19	A Flexible TiO ₂ (B)-Based Battery Electrode with Superior Power Rate and Ultralong Cycle Life. <i>Advanced Materials</i> , 2013, 25, 3462-3467.	21.0	286
20	Hydrogels and Aerogels from Noble Metal Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 9731-9734.	13.8	271
21	Efficient Phase Transfer of Luminescent Thiol-Capped Nanocrystals: From Water to Nonpolar Organic Solvents. <i>Nano Letters</i> , 2002, 2, 803-806.	9.1	247
22	Colloidal semiconductor nanocrystals: the aqueous approach. <i>Chemical Society Reviews</i> , 2013, 42, 2905-2929.	38.1	247
23	Bimetallic Aerogels: High-Performance Electrocatalysts for the Oxygen Reduction Reaction. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 9849-9852.	13.8	246
24	Quantum dot integrated LEDs using photonic and excitonic color conversion. <i>Nano Today</i> , 2011, 6, 632-647.	11.9	245
25	Detection of shallow electron traps in quantum sized CdS by fluorescence quenching experiments. <i>Chemical Physics Letters</i> , 1993, 203, 271-276.	2.6	234
26	A quantum dot quantum well: CdS/HgS/CdS. <i>Chemical Physics Letters</i> , 1993, 208, 59-62.	2.6	219
27	Efficient UV-Blue Photoluminescing Thiol-Stabilized Water-Soluble Alloyed ZnSe(S) Nanocrystals. <i>Journal of Physical Chemistry B</i> , 2004, 108, 5905-5908.	2.6	216
28	Size-Dependent Electrochemical Behavior of Thiol-Capped CdTe Nanocrystals in Aqueous Solution. <i>Journal of Physical Chemistry B</i> , 2005, 109, 1094-1100.	2.6	211
29	Size and Shape Control of Colloidally Synthesized IV [~] VI Nanoparticulate Tin(II) Sulfide. <i>Journal of the American Chemical Society</i> , 2008, 130, 14978-14980.	13.7	207
30	EXAFS Studies on the Size Dependence of Structural and Dynamic Properties of CdS Nanoparticles. <i>Journal of Physical Chemistry B</i> , 1997, 101, 2691-2701.	2.6	199
31	Nickel cobalt oxide hollow nanosponges as advanced electrocatalysts for the oxygen evolution reaction. <i>Chemical Communications</i> , 2015, 51, 7851-7854.	4.1	195
32	Shedding Light on Vacancy-Doped Copper Chalcogenides: Shape-Controlled Synthesis, Optical Properties, and Modeling of Copper Telluride Nanocrystals with Near-Infrared Plasmon Resonances. <i>ACS Nano</i> , 2013, 7, 4367-4377.	14.6	186
33	Chemically Tailoring Coal to Fluorescent Carbon Dots with Tuned Size and Their Capacity for Cu(II) Detection. <i>Small</i> , 2014, 10, 4926-4933.	10.0	186
34	Solid-State Anion Exchange Reactions for Color Tuning of CsPbX ₃ Perovskite Nanocrystals. <i>Chemistry of Materials</i> , 2016, 28, 9033-9040.	6.7	182
35	Factors Governing the Quality of Aqueous CdTe Nanocrystals: Calculations and Experiment. <i>Journal of Physical Chemistry B</i> , 2006, 110, 19280-19284.	2.6	181
36	High-Performance Electrocatalysis on Palladium Aerogels. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 5743-5747.	13.8	181

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37	Functionâ€led Design of Aerogels: Selfâ€Assembly of Alloyed PdNi Hollow Nanospheres for Efficient Electrocatalysis. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 13101-13105.	13.8	180
38	Colloidal nanocrystals for telecommunications. Complete coverage of the low-loss fiber windows by mercury telluride quantum dot. <i>Pure and Applied Chemistry</i> , 2000, 72, 295-307.	1.9	175
39	Bright Whiteâ€Light Emitting Manganese and Copper Coâ€Doped ZnSe Quantum Dots. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 4432-4436.	13.8	173
40	Gold Aerogels: Three-Dimensional Assembly of Nanoparticles and Their Use as Electrocatalytic Interfaces. <i>ACS Nano</i> , 2016, 10, 2559-2567.	14.6	165
41	Real-time magnetic resonance imaging and quantification of lipoprotein metabolism in vivo using nanocrystals. <i>Nature Nanotechnology</i> , 2009, 4, 193-201.	31.5	159
42	Progress in the Light Emission of Colloidal Semiconductor Nanocrystals. <i>Small</i> , 2010, 6, 1364-1378.	10.0	159
43	Colloidal Nanocrystal-Based Gels and Aerogels: Material Aspects and Application Perspectives. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 8-17.	4.6	155
44	Coreâ€Shell Structuring of Pure Metallic Aerogels towards Highly Efficient Platinum Utilization for the Oxygen Reduction Reaction. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 2963-2966.	13.8	154
45	The contribution of particle core and surface to strain, disorder and vibrations in thiolcapped CdTe nanocrystals. <i>Journal of Chemical Physics</i> , 1998, 108, 7807-7815.	3.0	153
46	High Efficiency Quantum Dot Heterojunction Solar Cell Using Anatase (001) TiO ₂ Nanosheets. <i>Advanced Materials</i> , 2012, 24, 2202-2206.	21.0	150
47	Multimetallic Aerogels by Template-Free Self-Assembly of Au, Ag, Pt, and Pd Nanoparticles. <i>Chemistry of Materials</i> , 2014, 26, 1074-1083.	6.7	148
48	Controlled Fabrication of Gold-Coated 3D Ordered Colloidal Crystal Films and Their Application in Surface-Enhanced Raman Spectroscopy. <i>Chemistry of Materials</i> , 2005, 17, 5731-5736.	6.7	147
49	Promoting Electrocatalysis upon Aerogels. <i>Advanced Materials</i> , 2019, 31, e1804881.	21.0	146
50	Nanoparticle-based autoantigen delivery to Treg-inducing liver sinusoidal endothelial cells enables control of autoimmunity in mice. <i>Journal of Hepatology</i> , 2015, 62, 1349-1356.	3.7	145
51	Ordered Macroporous Bimetallic Nanostructures: Design, Characterization, and Applications. <i>Accounts of Chemical Research</i> , 2008, 41, 244-253.	15.6	143
52	Colloidal Nanocrystals Embedded in Macrocrystals: Robustness, Photostability, and Color Purity. <i>Nano Letters</i> , 2012, 12, 5348-5354.	9.1	136
53	Kinetically Controlled Synthesis of PdNi Bimetallic Porous Nanostructures with Enhanced Electrocatalytic Activity. <i>Small</i> , 2015, 11, 1430-1434.	10.0	133
54	Light Energy Conversion by Mesoscopic PbS Quantum Dots/TiO ₂ Heterojunction Solar Cells. <i>ACS Nano</i> , 2012, 6, 3092-3099.	14.6	132

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55	A Fine Size Selection of Brightly Luminescent Water-Soluble Ag ⁺ In ³⁺ S and Ag ⁺ In ³⁺ S/ZnS Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2017, 121, 9032-9042.	3.1	131
56	Comparative Examination of the Stability of Semiconductor Quantum Dots in Various Biochemical Buffers. <i>Journal of Physical Chemistry B</i> , 2006, 110, 1959-1963.	2.6	128
57	Formation of luminescent spherical core-shell particles by the consecutive adsorption of polyelectrolyte and CdTe(S) nanocrystals on latex colloids. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2000, 163, 39-44.	4.7	127
58	Controlling the Growth of Palladium Aerogels with High-Performance toward Bioelectrocatalytic Oxidation of Glucose. <i>Journal of the American Chemical Society</i> , 2014, 136, 2727-2730.	13.7	124
59	Simple and Sensitive Colorimetric Detection of Dopamine Based on Assembly of Cyclodextrin-Modified Au Nanoparticles. <i>Small</i> , 2016, 12, 2439-2442.	10.0	123
60	Electrochemical synthesis of CdTe nanocrystal/polypyrrole composites for optoelectronic applications. <i>Journal of Materials Chemistry</i> , 2000, 10, 2163-2166.	6.7	121
61	Unusual Ultra-Hydrophilic, Porous Carbon Cuboids for Atmospheric Water Capture. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 1941-1945.	13.8	119
62	Three-Dimensional Self-Assembly of Thiol-Capped CdTe Nanocrystals: Gels and Aerogels as Building Blocks for Nanotechnology. <i>Advanced Materials</i> , 2008, 20, 4257-4262.	21.0	116
63	Current Advances in TiO ₂ -Based Nanostructure Electrodes for High Performance Lithium Ion Batteries. <i>Batteries</i> , 2018, 4, 7.	4.5	116
64	Fungal Templates for Noble-Metal Nanoparticles and Their Application in Catalysis. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 7876-7879.	13.8	112
65	3D Assembly of Semiconductor and Metal Nanocrystals: Hybrid CdTe/Au Structures with Controlled Content. <i>Journal of the American Chemical Society</i> , 2011, 133, 13413-13420.	13.7	112
66	ITO-Free, Small-Molecule Organic Solar Cells on Spray-Coated Copper-Nanowire-Based Transparent Electrodes. <i>Advanced Energy Materials</i> , 2014, 4, 1300737.	19.5	110
67	Highly Luminescent and Water-Resistant CsPbBr ₃ •CsPb ₂ Br ₅ Perovskite Nanocrystals Coordinated with Partially Hydrolyzed Poly(methyl methacrylate) and Polyethylenimine. <i>ACS Nano</i> , 2019, 13, 10386-10396.	14.6	110
68	Off-resonance surface plasmon enhanced spontaneous emission from CdTe quantum dots. <i>Applied Physics Letters</i> , 2006, 89, 253118.	3.3	109
69	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.	3.1	109
70	Unveiling reductant chemistry in fabricating noble metal aerogels for superior oxygen evolution and ethanol oxidation. <i>Nature Communications</i> , 2020, 11, 1590.	12.8	106
71	Large-Area (over 50 cm × 50 cm) Freestanding Films of Colloidal InP/ZnS Quantum Dots. <i>Nano Letters</i> , 2012, 12, 3986-3993.	9.1	104
72	Emerging Hierarchical Aerogels: Self-Assembly of Metal and Semiconductor Nanocrystals. <i>Advanced Materials</i> , 2018, 30, e1707518.	21.0	104

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73	Enzyme-Encapsulating Quantum Dot Hydrogels and Xerogels as Biosensors: Multifunctional Platforms for Both Biocatalysis and Fluorescent Probing. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 976-979.	13.8	103
74	Multimetallic Hierarchical Aerogels: Shape Engineering of the Building Blocks for Efficient Electrocatalysis. <i>Advanced Materials</i> , 2017, 29, 1605254.	21.0	98
75	Boron Nitride Aerogels with Super-Flexibility Ranging from Liquid Nitrogen Temperature to 1000 °C. <i>Advanced Functional Materials</i> , 2019, 29, 1900188.	14.9	97
76	Hierarchical Carbide-Derived Carbon Foams with Advanced Mesostructure as a Versatile Electrochemical Energy-Storage Material. <i>Advanced Energy Materials</i> , 2014, 4, 1300645.	19.5	96
77	Discrete excitonic transitions in quantum-sized CdS particles. <i>Chemical Physics Letters</i> , 1990, 172, 201-204.	2.6	93
78	Type-I and Type-II Nanoscale Heterostructures Based on CdTe Nanocrystals: A Comparative Study. <i>Small</i> , 2008, 4, 1148-1152.	10.0	91
79	Semiconductor Nanocrystal Assemblies: Experimental Pitfalls and a Simple Model of Particle-Particle Interaction. <i>Journal of Physical Chemistry B</i> , 2002, 106, 5604-5608.	2.6	90
80	CdTe Quantum Dot/Dye Hybrid System as Photosensitizer for Photodynamic Therapy. <i>Nanoscale Research Letters</i> , 2010, 5, 753-760.	5.7	90
81	Selective Fabrication of Ordered Bimetallic Nanostructures with Hierarchical Porosity. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 5997-6001.	13.8	89
82	Engineering Self-Supported Noble Metal Foams Toward Electrocatalysis and Beyond. <i>Advanced Energy Materials</i> , 2020, 10, 1901945.	19.5	89
83	Origin and Dynamics of Highly Efficient Broadband Photoluminescence of Aqueous Glutathione-Capped Size-Selected Ag-In-S Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2018, 122, 13648-13658.	3.1	88
84	High-Rate Unidirectional Energy Transfer in Directly Assembled CdTe Nanocrystal Bilayers. <i>Small</i> , 2005, 1, 392-395.	10.0	87
85	Specific ion effects directed noble metal aerogels: Versatile manipulation for electrocatalysis and beyond. <i>Science Advances</i> , 2019, 5, eaaw4590.	10.3	87
86	Annealing of Nanometer-Sized Zinc Oxide Particles. <i>Chemistry of Materials</i> , 2002, 14, 1411-1417.	6.7	86
87	Designed Fabrication of Ordered Porous Au/Ag Nanostructured Films for Surface-Enhanced Raman Scattering Substrates. <i>Langmuir</i> , 2006, 22, 2605-2609.	3.5	86
88	Emerging Noble Metal Aerogels: State of the Art and a Look Forward. <i>Matter</i> , 2019, 1, 39-56.	10.0	84
89	Particle-Particle Interactions in Semiconductor Nanocrystal Assemblies. <i>Nano Letters</i> , 2001, 1, 267-269.	9.1	83
90	Engineering Multimetallic Aerogels for pH-Universal HER and ORR Electrocatalysis. <i>Advanced Energy Materials</i> , 2020, 10, 1903857.	19.5	83

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91	Switchable Photoluminescence of CdTe Nanocrystals by Temperature-Responsive Microgels. <i>Langmuir</i> , 2008, 24, 9820-9824.	3.5	81
92	Self-Supporting Hierarchical Porous PtAg Alloy Nanotubular Aerogels as Highly Active and Durable Electrocatalysts. <i>Chemistry of Materials</i> , 2016, 28, 6477-6483.	6.7	81
93	CdTe Nanocrystals Capped with a Tetrazolyl Analogue of Thioglycolic Acid: Aqueous Synthesis, Characterization, and Metal-Assisted Assembly. <i>ACS Nano</i> , 2010, 4, 4090-4096.	14.6	80
94	Synthesis of surface-modified colloidal semiconductor nanocrystals and study of photoinduced charge separation and transport in nanocrystal-polymer composites. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2002, 14, 237-241.	2.7	79
95	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.	13.7	79
96	Diffusion- and reaction-limited cluster aggregation revisited. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 5723-5729.	2.8	79
97	Nanostructuring Noble Metals as Unsupported Electrocatalysts for Polymer Electrolyte Fuel Cells. <i>Advanced Energy Materials</i> , 2017, 7, 1700548.	19.5	76
98	Fabrication and characterization of red-emitting electroluminescent devices based on thiol-stabilized semiconductor nanocrystals. <i>Applied Physics Letters</i> , 2007, 90, 034107.	3.3	75
99	Ultrasmall SnO ₂ Nanocrystals: Hot-bubbling Synthesis, Encapsulation in Carbon Layers and Applications in High Capacity Li-Ion Storage. <i>Scientific Reports</i> , 2015, 4, 4647.	3.3	75
100	3D Assembly of All-Inorganic Colloidal Nanocrystals into Gels and Aerogels. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 6334-6338.	13.8	75
101	The Assembling of Semiconductor Nanocrystals. <i>European Journal of Inorganic Chemistry</i> , 2005, 2005, 3613-3623.	2.0	74
102	Dual-color emitting quantum-dot-quantum-well CdSe-ZnS heteronanocrystals hybridized on InGaN/GaN light emitting diodes for high-quality white light generation. <i>Applied Physics Letters</i> , 2008, 92, .	3.3	74
103	Absolute photoluminescence quantum yields of IR26 and IR-emissive Cd _{1-x} Hg _x Te and PbS quantum dots – method- and material-inherent challenges. <i>Nanoscale</i> , 2015, 7, 133-143.	5.6	74
104	Pt-Ni Aerogels as Unsupported Electrocatalysts for the Oxygen Reduction Reaction. <i>Journal of the Electrochemical Society</i> , 2016, 163, F998-F1003.	2.9	74
105	Near-Infrared Electroluminescence from HgTe Nanocrystals. <i>ChemPhysChem</i> , 2004, 5, 1435-1438.	2.1	68
106	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
107	Pb-Organic Mesocrystals: The Relationship between Nanocrystal Orientation and Superlattice Array. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 10776-10781.	13.8	67
108	Application of Polymer Quantum Dot-Enzyme Hybrids in the Biosensor Development and Test Paper Fabrication. <i>Analytical Chemistry</i> , 2012, 84, 5047-5052.	6.5	67

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109	Mesocrystalline materials and the involvement of oriented attachment – a review. <i>CrystEngComm</i> , 2014, 16, 9408-9424.	2.6	67
110	Photoluminescence Quantum Yield and Matrix-Induced Luminescence Enhancement of Colloidal Quantum Dots Embedded in Ionic Crystals. <i>Chemistry of Materials</i> , 2014, 26, 3231-3237.	6.7	67
111	Investigations on the stability of thiol stabilized semiconductor nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2002, 4, 4747-4753.	2.8	66
112	Synthesis of Extremely Small CdSe and Bright Blue Luminescent CdSe/ZnS Nanoparticles by a Prefocused Hot-Injection Approach. <i>Chemistry of Materials</i> , 2009, 21, 1743-1749.	6.7	66
113	Anisotropic Emission from Multilayered Plasmon Resonator Nanocomposites of Isotropic Semiconductor Quantum Dots. <i>ACS Nano</i> , 2011, 5, 1328-1334.	14.6	66
114	Unsupported Pt-Ni Aerogels with Enhanced High Current Performance and Durability in Fuel Cell Cathodes. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 10707-10710.	13.8	65
115	Arrays of Inorganic Nanodots and Nanowires Using Nanotemplates Based on Switchable Block Copolymer Supramolecular Assemblies. <i>Advanced Functional Materials</i> , 2009, 19, 2805-2811.	14.9	64
116	A spray-coating process for highly conductive silver nanowire networks as the transparent top-electrode for small molecule organic photovoltaics. <i>Nanoscale</i> , 2015, 7, 2777-2783.	5.6	62
117	Layer-by-Layer All-Inorganic Quantum-Dot-Based LEDs: A Simple Procedure with Robust Performance. <i>Advanced Functional Materials</i> , 2010, 20, 3298-3302.	14.9	61
118	Mixed Aerogels from Au and CdTe Nanoparticles. <i>Advanced Functional Materials</i> , 2013, 23, 1903-1911.	14.9	60
119	A Roadmap for 3D Metal Aerogels: Materials Design and Application Attempts. <i>Matter</i> , 2021, 4, 54-94.	10.0	60
120	Penetration of Amphiphilic Quantum Dots through Model and Cellular Plasma Membranes. <i>ACS Nano</i> , 2012, 6, 2150-2156.	14.6	59
121	Covalent immobilization of quantum dots on macroscopic surfaces using poly(acrylic acid) brushes. <i>Journal of Materials Chemistry</i> , 2008, 18, 214-220.	6.7	58
122	Self-Assembly of TGA-Capped CdTe Nanocrystals into Three-Dimensional Luminescent Nanostructures. <i>Chemistry of Materials</i> , 2010, 22, 2309-2314.	6.7	58
123	Promoting the Electrocatalytic Performance of Noble Metal Aerogels by Ligand-Directed Modulation. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 5706-5711.	13.8	58
124	Synthesis of noble metal nanoparticles and their non-ordered superstructures. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2010, 368, 1385-1404.	3.4	57
125	Self-assembly of nanocrystals into strongly electronically coupled all-inorganic supercrystals. <i>Science</i> , 2022, 375, 1422-1426.	12.6	57
126	Electron Transport in Particulate ZnO Electrodes: A Simple Approach. <i>Journal of Physical Chemistry B</i> , 2002, 106, 8514-8523.	2.6	56

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127	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.	3.6	56
128	Stable Dispersion of Iodide-Capped PbSe Quantum Dots for High-Performance Low-Temperature Processed Electronics and Optoelectronics. <i>Chemistry of Materials</i> , 2015, 27, 4328-4337.	6.7	56
129	Freeze-Thaw-Promoted Fabrication of Clean and Hierarchically Structured Noble-Metal Aerogels for Electrocatalysis and Photoelectrocatalysis. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 8293-8300.	13.8	56
130	Quantum-sized HgS in contact with quantum-sized CdS colloids. <i>Journal of Luminescence</i> , 1992, 53, 113-115.	3.1	55
131	White emitting CdS quantum dot nanoluminophores hybridized on near-ultraviolet LEDs for high-quality white light generation and tuning. <i>New Journal of Physics</i> , 2008, 10, 023026.	2.9	55
132	Investigation of factors affecting the photoluminescence of colloidally prepared HgTe nanocrystals. <i>Journal of Materials Chemistry</i> , 1999, 9, 2721-2722.	6.7	53
133	One-step aqueous synthesis of blue-emitting glutathione-capped ZnSe _x Te _{1-x} alloyed nanocrystals. <i>Chemical Communications</i> , 2010, 46, 886-888.	4.1	53
134	Effect of Surface Properties on the Microstructure, Thermal, and Colloidal Stability of VB ₂ Nanoparticles. <i>Chemistry of Materials</i> , 2015, 27, 5106-5115.	6.7	52
135	Liquid-Liquid Diffusion-Assisted Crystallization: A Fast and Versatile Approach Toward High Quality Mixed Quantum Dot-Salt Crystals. <i>Advanced Functional Materials</i> , 2015, 25, 2638-2645.	14.9	52
136	Interconnection of Nanoparticles within 2D Superlattices of PbS/Oleic Acid Thin Films. <i>Advanced Materials</i> , 2014, 26, 3042-3049.	21.0	51
137	Luminescence and photoelectrochemical properties of size-selected aqueous copper-doped AgInS quantum dots. <i>RSC Advances</i> , 2018, 8, 7550-7557.	3.6	51
138	Self-Organized TiO ₂ /CoO Nanotubes as Potential Anode Materials for Lithium Ion Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2015, 3, 909-919.	6.7	50
139	Enzymatic Biofuel Cells on Porous Nanostructures. <i>Small</i> , 2016, 12, 4649-4661.	10.0	50
140	Hybrid N-Butylamine-Based Ligands for Switching the Colloidal Solubility and Regimentation of Inorganic-Capped Nanocrystals. <i>ACS Nano</i> , 2017, 11, 1559-1571.	14.6	49
141	Mechanical Properties of Metal Oxide Aerogels. <i>Chemistry of Materials</i> , 2018, 30, 145-152.	6.7	49
142	Disturbance-Promoted Unconventional and Rapid Fabrication of Self-Healable Noble Metal Gels for (Photo-)Electrocatalysis. <i>Matter</i> , 2020, 2, 908-920.	10.0	49
143	Covalent Linking of CdTe Nanocrystals to Amino-Functionalized Surfaces. <i>ChemPhysChem</i> , 2005, 6, 449-451.	2.1	48
144	Implementation of High-Quality Warm-White Light-Emitting Diodes by a Model-Experimental Feedback Approach Using Quantum Dot-Salt Mixed Crystals. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 23364-23371.	8.0	48

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145	Simultaneous Identification of Spectral Properties and Sizes of Multiple Particles in Solution with Subnanometer Resolution. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 11770-11774.	13.8	46
146	Anodically fabricated TiO ₂ –SnO ₂ nanotubes and their application in lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 5542-5552.	10.3	46
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