Nikolai Gaponik

List of Publications by Year
in descending order

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297	16,172	14644	17580
papers	citations	66 h-index	121 g-index

307	307	307	15329
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Thiol-Capping of CdTe Nanocrystals:â€‰An Alternative to Organometallic Synthetic Routes. Journal of Physical Chemistry B, 2002, 106, 7177-7185.	1.2	1,485
2	Aqueous Synthesis of Thiol-Capped CdTe Nanocrystals:â€‰State-of-the-Art. Journal of Physical Chemistry C, 2007, 111, 14628-14637.	1.5	703
3	Determination of the Fluorescence Quantum Yield of Quantum Dots: Suitable Procedures and Achievable Uncertainties. Analytical Chemistry, 2009, 81, 6285-6294.	3.2	556
4	Noble Metal Aerogelsâ€”Synthesis, Characterization, and Application as Electrocatalysts. Accounts of Chemical Research, 2015, 48, 154-162.	7.6	313
5	Lightâ€Emitting Diodes with Semiconductor Nanocrystals. Angewandte Chemie - International Edition, 2008, 47, 6538-6549.	7.2	305
6	Modern Inorganic Aerogels. Angewandte Chemie - International Edition, 2017, 56, 13200-13221.	7.2	303
7	Nanoengineered Polymer Capsules: Tools for Detection, Controlled Delivery, and Site-Specific Manipulation. Small, 2005, 1, 194-200.	5.2	271
8	Hydrogels and Aerogels from Noble Metal Nanoparticles. Angewandte Chemie - International Edition, 2009, 48, 9731-9734.	7.2	271
9	A New Approach to Crystallization of CdSe Nanoparticles into Ordered Three-Dimensional Superlattices. Advanced Materials, 2001, 13, 1868.	11.1	248
10	Efficient Phase Transfer of Luminescent Thiol-Capped Nanocrystals:â€‰From Water to Nonpolar Organic Solvents. Nano Letters, 2002, 2, 803-806.	4.5	247
11	Colloidal semiconductor nanocrystals: the aqueous approach. Chemical Society Reviews, 2013, 42, 2905-2929.	18.7	247
12	Bimetallic Aerogels: Highâ€Performance Electrocatalysts for the Oxygen Reduction Reaction. Angewandte Chemie - International Edition, 2013, 52, 9849-9852.	7.2	246
13	Quantum dot integrated LEDs using photonic and excitonic color conversion. Nano Today, 2011, 6, 632-647.	6.2	245
14	Nonfunctionalized Nanocrystals Can Exploit a Cell's Active Transport Machinery Delivering Them to Specific Nuclear and Cytoplasmic Compartments. Nano Letters, 2007, 7, 3452-3461.	4.5	219
15	Efficient UV-Blue Photoluminescing Thiol-Stabilized Water-Soluble Alloyed ZnSe(S) Nanocrystals. Journal of Physical Chemistry B, 2004, 108, 5905-5908.	1.2	216
16	Size-Dependent Electrochemical Behavior of Thiol-Capped CdTe Nanocrystals in Aqueous Solution. Journal of Physical Chemistry B, 2005, 109, 1094-1100.	1.2	211
17	Etching of Colloidal InP Nanocrystals with Fluorides:â€‰Photochemical Nature of the Process Resulting in High Photoluminescence Efficiency. Journal of Physical Chemistry B, 2002, 106, 12659-12663.	1.2	209
18	Boosting Photocatalytic CO₂ Reduction on CsPbBr₃ Perovskite Nanocrystals by Immobilizing Metal Complexes. Chemistry of Materials, 2020, 32, 1517-1525.	3.2	197

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19	Relations between the Photoluminescence Efficiency of CdTe Nanocrystals and Their Surface Properties Revealed by Synchrotron XPS. Journal of Physical Chemistry B, 2003, 107, 9662-9668.	1.2	191
20	Toward Encoding Combinatorial Libraries: Charge-Driven Microencapsulation of Semiconductor Nanocrystals Luminescing in the Visible and Near IR. Advanced Materials, 2002, 14, 879.	11.1	188
21	Solid-State Anion Exchange Reactions for Color Tuning of CsPbX₃ Perovskite Nanocrystals. Chemistry of Materials, 2016, 28, 9033-9040.	3.2	182
22	Factors Governing the Quality of Aqueous CdTe Nanocrystals:â€‰ Calculations and Experiment. Journal of Physical Chemistry B, 2006, 110, 19280-19284.	1.2	181
23	Highâ€Performance Electrocatalysis on Palladium Aerogels. Angewandte Chemie - International Edition, 2012, 51, 5743-5747.	7.2	181
24	Luminescent Polymer Microcapsules Addressable by a Magnetic Field. Langmuir, 2004, 20, 1449-1452.	1.6	180
25	Solar light harvesting with multinary metal chalcogenide nanocrystals. Chemical Society Reviews, 2018, 47, 5354-5422.	18.7	177
26	Core-Shell Structures Formed by the Solvent-Controlled Precipitation of Luminescent CdTe Nanocrystals on Latex Spheres. Advanced Materials, 2001, 13, 1684-1687.	11.1	159
27	Progress in the Light Emission of Colloidal Semiconductor Nanocrystals. Small, 2010, 6, 1364-1378.	5.2	159
28	Surface Plasmon Enhanced Energy Transfer between Donor and Acceptor CdTe Nanocrystal Quantum Dot Monolayers. Nano Letters, 2011, 11, 3341-3345.	4.5	159
29	Colloidal Nanocrystal-Based Gels and Aerogels: Material Aspects and Application Perspectives. Journal of Physical Chemistry Letters, 2012, 3, 8-17.	2.1	155
30	Labeling of Biocompatible Polymer Microcapsules with Near-Infrared Emitting Nanocrystals. Nano Letters, 2003, 3, 369-372.	4.5	153
31	Multimetallic Aerogels by Template-Free Self-Assembly of Au, Ag, Pt, and Pd Nanoparticles. Chemistry of Materials, 2014, 26, 1074-1083.	3.2	148
32	Controlled Fabrication of Gold-Coated 3D Ordered Colloidal Crystal Films and Their Application in Surface-Enhanced Raman Spectroscopy. Chemistry of Materials, 2005, 17, 5731-5736.	3.2	147
33	Colloidal Nanocrystals Embedded in Macrocrystals: Robustness, Photostability, and Color Purity. Nano Letters, 2012, 12, 5348-5354.	4.5	136
34	Wavelength, Concentration, and Distance Dependence of Nonradiative Energy Transfer to a Plane of Gold Nanoparticles. ACS Nano, 2012, 6, 9283-9290.	7.3	131
35	A Fine Size Selection of Brightly Luminescent Water-Soluble Agâ€“Inâ€“S and Agâ€“Inâ€“S/ZnS Quantum Dots. Journal of Physical Chemistry C, 2017, 121, 9032-9042.	1.5	131
36	Fast energy transfer in layer-by-layer assembled CdTe nanocrystal bilayers. Applied Physics Letters, 2004, 84, 2904-2906.	1.5	130

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37	Experimental and Theoretical Investigation of the Distance Dependence of Localized Surface Plasmon Coupled FÃ¶rster Resonance Energy Transfer. ACS Nano, 2014, 8, 1273-1283.	7.3	130
38	Comparative Examination of the Stability of Semiconductor Quantum Dots in Various Biochemical Buffers. Journal of Physical Chemistry B, 2006, 110, 1959-1963.	1.2	128
39	Lateral Patterning of CdTe Nanocrystal Films by the Electric Field Directed Layer-by-Layer Assembly Method. Langmuir, 2002, 18, 4098-4102.	1.6	127
40	Electrochemical synthesis of CdTe nanocrystal/polypyrrole composites for optoelectronic applications. Journal of Materials Chemistry, 2000, 10, 2163-2166.	6.7	121
41	Threeâ€Dimensional Selfâ€Assembly of Thiolâ€Capped CdTe Nanocrystals: Gels and Aerogels as Building Blocks for Nanotechnology. Advanced Materials, 2008, 20, 4257-4262.	11.1	116
42	Thiol-capped CdTe nanocrystals: progress and perspectives of the related research fields. Physical Chemistry Chemical Physics, 2010, 12, 8685.	1.3	113
43	3D Assembly of Semiconductor and Metal Nanocrystals: Hybrid CdTe/Au Structures with Controlled Content. Journal of the American Chemical Society, 2011, 133, 13413-13420.	6.6	112
44	Concentration dependence of FÃ¶rster resonant energy transfer between donor and acceptor nanocrystal quantum dot layers: Effect of donor-donor interactions. Physical Review B, 2011, 83, .	1.1	111
45	ITOâ€Free, Smallâ€Molecule Organic Solar Cells on Sprayâ€Coated Copperâ€Nanowireâ€Based Transparent Electrodes. Advanced Energy Materials, 2014, 4, 1300737.	10.2	110
46	Highly Luminescent and Water-Resistant CsPbBr₃â€“CsPb₂Br₅ Perovskite Nanocrystals Coordinated with Partially Hydrolyzed Poly(methyl methacrylate) and Polyethylenimine. ACS Nano, 2019, 13, 10386-10396.	7.3	110
47	Off-resonance surface plasmon enhanced spontaneous emission from CdTe quantum dots. Applied Physics Letters, 2006, 89, 253118.	1.5	109
48	Large-Area (over 50 cm Ã— 50 cm) Freestanding Films of Colloidal InP/ZnS Quantum Dots. Nano Letters, 2012, 12, 3986-3993.	4.5	104
49	Emerging Hierarchical Aerogels: Selfâ€Assembly of Metal and Semiconductor Nanocrystals. Advanced Materials, 2018, 30, e1707518.	11.1	104
50	Enzymeâ€Encapsulating Quantum Dot Hydrogels and Xerogels as Biosensors: Multifunctional Platforms for Both Biocatalysis and Fluorescent Probing. Angewandte Chemie - International Edition, 2013, 52, 976-979.	7.2	103
51	A light-emitting device based on a CdTe nanocrystal/polyaniline composite. Physical Chemistry Chemical Physics, 1999, 1, 1787-1789.	1.3	98
52	Fine structure of coupled optical modes in photonic molecules. Physical Review A, 2004, 70, .	1.0	94
53	Selective Fabrication of Ordered Bimetallic Nanostructures with Hierarchical Porosity. Angewandte Chemie - International Edition, 2005, 44, 5997-6001.	7.2	89
54	High-Rate Unidirectional Energy Transfer in Directly Assembled CdTe Nanocrystal Bilayers. Small, 2005, 1, 392-395.	5.2	87

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55	Influence of quantum dot concentration on FÃ¶rster resonant energy transfer in monodispersed nanocrystal quantum dot monolayers. Physical Review B, 2010, 81, .	1.1	85
56	Switchable Photoluminescence of CdTe Nanocrystals by Temperature-Responsive Microgels. Langmuir, 2008, 24, 9820-9824.	1.6	81
57	Resonance Energy Transfer Improves the Biological Function of Bacteriorhodopsin within a Hybrid Material Built from Purple Membranes and Semiconductor Quantum Dots. Nano Letters, 2010, 10, 2640-2648.	4.5	80
58	CdTe Nanocrystals Capped with a Tetrazolyl Analogue of Thioglycolic Acid: Aqueous Synthesis, Characterization, and Metal-Assisted Assembly. ACS Nano, 2010, 4, 4090-4096.	7.3	80
59	Synthesis of surface-modified colloidal semiconductor nanocrystals and study of photoinduced charge separation and transport in nanocrystal-polymer composites. Physica E: Low-Dimensional Systems and Nanostructures, 2002, 14, 237-241.	1.3	79
60	Fabrication and characterization of red-emitting electroluminescent devices based on thiol-stabilized semiconductor nanocrystals. Applied Physics Letters, 2007, 90, 034107.	1.5	75
61	3D Assembly of Allâ€inorganic Colloidal Nanocrystals into Gels and Aerogels. Angewandte Chemie - International Edition, 2016, 55, 6334-6338.	7.2	75
62	The Assembling of Semiconductor Nanocrystals. European Journal of Inorganic Chemistry, 2005, 2005, 3613-3623.	1.0	74
63	Dual-color emitting quantum-dot-quantum-well CdSe-ZnS heteronanocrystals hybridized on InGaNâ•GaN light emitting diodes for high-quality white light generation. Applied Physics Letters, 2008, 92, .	1.5	74
64	Absolute photoluminescence quantum yields of IR26 and IR-emissive Cd‹sub›1â^'x‹/sub›Hg‹sub›x‹/sub›Te and PbS quantum dots â€“ method- and material-inherent challenges. Nanoscale, 2015, 7, 133-143.	2.8	74
65	Whispering gallery mode emission from a composite system of CdTe nanocrystals and a spherical microcavity. Semiconductor Science and Technology, 2003, 18, 914-918.	1.0	69
66	Near-Infrared Electroluminescence from HgTe Nanocrystals. ChemPhysChem, 2004, 5, 1435-1438.	1.0	68
67	Application of Polymer Quantum Dot-Enzyme Hybrids in the Biosensor Development and Test Paper Fabrication. Analytical Chemistry, 2012, 84, 5047-5052.	3.2	67
68	Photoluminescence Quantum Yield and Matrix-Induced Luminescence Enhancement of Colloidal Quantum Dots Embedded in Ionic Crystals. Chemistry of Materials, 2014, 26, 3231-3237.	3.2	67
69	Anisotropic Emission from Multilayered Plasmon Resonator Nanocomposites of Isotropic Semiconductor Quantum Dots. ACS Nano, 2011, 5, 1328-1334.	7.3	66
70	In-Situ Observation of Nanowire Growth from Luminescent CdTe Nanocrystals in a Phosphate Buffer Solution. ChemPhysChem, 2004, 5, 1600-1602.	1.0	62
71	A spray-coating process for highly conductive silver nanowire networks as the transparent top-electrode for small molecule organic photovoltaics. Nanoscale, 2015, 7, 2777-2783.	2.8	62
72	Silanized Luminescent Quantum Dots for the Simultaneous Multicolor Lateral Flow Immunoassay of Two Mycotoxins. ACS Applied Materials & Interfaces, 2020, 12, 24575-24584.	4.0	62

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73	Layerâ€byâ€Layer Allâ€Inorganic Quantumâ€Dotâ€Based LEDs: A Simple Procedure with Robust Performance. Advanced Functional Materials, 2010, 20, 3298-3302.	7.8	61
74	Mixed Aerogels from Au and CdTe Nanoparticles. Advanced Functional Materials, 2013, 23, 1903-1911.	7.8	60
75	Penetration of Amphiphilic Quantum Dots through Model and Cellular Plasma Membranes. ACS Nano, 2012, 6, 2150-2156.	7.3	59
76	Covalent immobilization of quantum dots on macroscopic surfaces using poly(acrylic acid) brushes. Journal of Materials Chemistry, 2008, 18, 214-220.	6.7	58
77	Self-Assembly of TGA-Capped CdTe Nanocrystals into Three-Dimensional Luminescent Nanostructures. Chemistry of Materials, 2010, 22, 2309-2314.	3.2	58
78	Stable Dispersion of Iodide-Capped PbSe Quantum Dots for High-Performance Low-Temperature Processed Electronics and Optoelectronics. Chemistry of Materials, 2015, 27, 4328-4337.	3.2	56
79	White emitting CdS quantum dot nanoluminophores hybridized on near-ultraviolet LEDs for high-quality white light generation and tuning. New Journal of Physics, 2008, 10, 023026.	1.2	55
80	One-step aqueous synthesis of blue-emitting glutathione-capped ZnSe1â^'xTexalloyed nanocrystals. Chemical Communications, 2010, 46, 886-888.	2.2	53
81	Inherently Broadband Photoluminescence in Agâ€“Inâ€“S/ZnS Quantum Dots Observed in Ensemble and Single-Particle Studies. Journal of Physical Chemistry C, 2019, 123, 2632-2641.	1.5	53
82	Liquidâ€“Liquid Diffusionâ€Assisted Crystallization: A Fast and Versatile Approach Toward High Quality Mixed Quantum Dotâ€Salt Crystals. Advanced Functional Materials, 2015, 25, 2638-2645.	7.8	52
83	Enhanced quantum dot deposition on ZnO nanorods for photovoltaics through layer-by-layer processing. Journal of Materials Chemistry, 2011, 21, 2517.	6.7	51
84	Luminescence and photoelectrochemical properties of size-selected aqueous copper-doped Agâ€“Inâ€“S quantum dots. RSC Advances, 2018, 8, 7550-7557.	1.7	51
85	Hybrid N-Butylamine-Based Ligands for Switching the Colloidal Solubility and Regimentation of Inorganic-Capped Nanocrystals. ACS Nano, 2017, 11, 1559-1571.	7.3	49
86	Covalent Linking of CdTe Nanocrystals to Amino-Functionalized Surfaces. ChemPhysChem, 2005, 6, 449-451.	1.0	48
87	Implementation of High-Quality Warm-White Light-Emitting Diodes by a Model-Experimental Feedback Approach Using Quantum Dotâ€“Salt Mixed Crystals. ACS Applied Materials & Interfaces, 2015, 7, 23364-23371.	4.0	48
88	Photoluminescence properties of heat-treated porous alumina films formed in oxalic acid. Journal of Luminescence, 2011, 131, 938-942.	1.5	46
89	Simultaneous Identification of Spectral Properties and Sizes of Multiple Particles in Solution with Subnanometer Resolution. Angewandte Chemie - International Edition, 2016, 55, 11770-11774.	7.2	46
90	Investigation of Energy Transfer between CdTe Nanocrystals on Polystyrene Beads and Dye Molecules for FRET-SNOM Applicationsâ€. Journal of Physical Chemistry B, 2004, 108, 14527-14534.	1.2	45

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91	Tuning shades of white light with multi-color quantum-dotâ€“quantum-well emitters based on onion-like CdSeâ€“ZnS heteronanocrystals. Nanotechnology, 2008, 19, 335203.	1.3	45
92	Luminescent energy transfer between cadmium telluride nanoparticle and lanthanide(III) chelate in competitive bioaffinity assays of biotin and estradiol. Analytica Chimica Acta, 2007, 604, 177-183.	2.6	44
93	Hybrid organic/inorganic semiconductor nanostructures with highly efficient energy transfer. Journal of Materials Chemistry, 2012, 22, 10816.	6.7	44
94	Chloride and Indiumâ€Chlorideâ€Complex Inorganic Ligands for Efficient Stabilization of Nanocrystals in Solution and Doping of Nanocrystal Solids. Advanced Functional Materials, 2016, 26, 2163-2175.	7.8	43
95	Structural tuning of color chromaticity through nonradiative energy transfer by interspacing CdTe nanocrystal monolayers. Applied Physics Letters, 2009, 94, .	1.5	41
96	Electrochemical Tuning of Localized Surface Plasmon Resonance in Copper Chalcogenide Nanocrystals. Journal of Physical Chemistry C, 2017, 121, 18244-18253.	1.5	41
97	Highly efficient FÃ¶rster resonance energy transfer between CdTe nanocrystals and Rhodamine B in mixed solid films. Chemical Physics Letters, 2004, 388, 100-104.	1.2	40
98	Assemblies of thiol-capped nanocrystals as building blocks for use in nanotechnology. Journal of Materials Chemistry, 2010, 20, 5174.	6.7	40
99	Quantum-Dot-Based (Aero)gels: Control of the Optical Properties. Journal of Physical Chemistry Letters, 2012, 3, 2188-2193.	2.1	40
100	Electrostatic and Covalent Interactions in CdTe Nanocrystalline Assemblies. Journal of Physical Chemistry B, 2005, 109, 20244-20250.	1.2	39
101	Ultrafast Interfacial Charge Carrier Dynamics in ZnSe and ZnSe/ZnS Core/Shell Nanoparticles:â€‰ Influence of Shell Formation. Journal of Physical Chemistry C, 2008, 112, 2703-2710.	1.5	39
102	Selective enhancement of surface-state emission and simultaneous quenching of interband transition in white-luminophor CdS nanocrystals using localized plasmon coupling. New Journal of Physics, 2008, 10, 083035.	1.2	39
103	One-pot aqueous synthesis of high quality near infrared emitting Cd1âˆ’xHgxTe nanocrystals. Journal of Materials Chemistry, 2009, 19, 9147.	6.7	39
104	Effect of Metal Nanoparticle Concentration on Localized Surface Plasmon Mediated FÃ¶rster Resonant Energy Transfer. Journal of Physical Chemistry C, 2012, 116, 26529-26534.	1.5	39
105	â€œGreenâ€•Aqueous Synthesis and Advanced Spectral Characterization of Size-Selected Cu2ZnSnS4 Nanocrystal Inks. Scientific Reports, 2018, 8, 13677.	1.6	39
106	Cathodic and Anodic Material Diffusion in Polymer/Semiconductorâ€Nanocrystal Composite Devices. Advanced Materials, 2007, 19, 3364-3367.	11.1	38
107	Branched Wires of CdTe Nanocrystals Using Amphiphilic Molecules as Templates. Small, 2005, 1, 524-527.	5.2	37
108	Origin of the Broadband Photoluminescence of Pristine and Cu⁺/Ag⁺-Doped Ultrasmall CdS and CdSe/CdS Quantum Dots. Journal of Physical Chemistry C, 2018, 122, 10267-10277.	1.5	37

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109	Raman characterization of Cu₂ZnSnS₄ nanocrystals: phonon confinement effect and formation of Cu_xS phases. RSC Advances, 2018, 8, 30736-30746.	1.7	37
110	SYNTHESIS AND OPTICAL PROPERTIES OF WATER SOLUBLE ZnSe NANOCRYSTALS. International Journal of Modern Physics B, 2001, 15, 3881-3884.	1.0	35
111	Raman scattering and anti-Stokes emission from a single spherical microcavity with a CdTe quantum dot monolayer. Applied Physics Letters, 2003, 83, 2539-2541.	1.5	34
112	Studying the Reactions of CdTe Nanostructures and Thin CdTe Films with Ag⁺ and AuCl₄^{â˜’}. Journal of Physical Chemistry C, 2008, 112, 8881-8889.	1.5	34
113	Structure-related optical properties of luminescent hetero-opals. Journal of Applied Physics, 2004, 95, 1029-1035.	1.1	32
114	Toward efficient blue-emitting thiol-capped Zn1â˜’xCdxSe nanocrystals. Journal of Materials Chemistry, 2008, 18, 5142.	6.7	32
115	Humidity assisted annealing technique for transparent conductive silver nanowire networks. RSC Advances, 2015, 5, 19659-19665.	1.7	32
116	Tetrazoles: Unique Capping Ligands and Precursors for Nanostructured Materials. Small, 2015, 11, 5728-5739.	5.2	31
117	Subwavelength emitters in the near-infrared based on mercury telluride nanocrystals. Applied Physics Letters, 2004, 84, 4732-4734.	1.5	30
118	Electrochemical Observation of the Photoinduced Formation of Alloyed ZnSe(S) Nanocrystals. Journal of Physical Chemistry B, 2006, 110, 19233-19237.	1.2	30
119	Synthesis of Amphiphilic CdTe Nanocrystals. Journal of Physical Chemistry C, 2009, 113, 4748-4750.	1.5	30
120	Experimental and theoretical investigations of the ligand structure of water-soluble CdTe nanocrystals. Dalton Transactions, 2013, 42, 12733.	1.6	29
121	Quantumâ€Dotâ€inâ€Polymer Composites via Advanced Surface Engineering. Small Methods, 2017, 1, 1700189.	4.6	29
122	Quantum Dot Thin Layers Templated on ZnO Inverse Opals. Advanced Materials, 2006, 18, 2768-2772.	11.1	28
123	White organic light-emitting devices incorporating nanoparticles of IIâ€“VI semiconductors. Nanotechnology, 2007, 18, 335202.	1.3	28
124	Large Enhancement of Nonlinear Optical Response in a Hybrid Nanobiomaterial Consisting of Bacteriorhodopsin and Cadmium Telluride Quantum Dots. ACS Nano, 2013, 7, 2154-2160.	7.3	28
125	Colloidal Nanocrystals Embedded in Macrocrystals: Methods and Applications. Journal of Physical Chemistry Letters, 2016, 7, 4117-4123.	2.1	28
126	Cold Flow as Versatile Approach for Stable and Highly Luminescent Quantum Dotâ€“Salt Composites. ACS Applied Materials & Interfaces, 2016, 8, 21570-21575.	4.0	28

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127	Energy transfer in colloidal CdTe quantum dot nanoclusters. Optics Express, 2010, 18, 24486.	1.7	27
128	Modification of the spontaneous emission of CdTe nanocrystals in TiO2 inverted opals. Journal of Applied Physics, 2003, 94, 1205-1210.	1.1	26
129	Electrochemical probing of thiol-capped nanocrystals. Mikrochimica Acta, 2008, 160, 327-334.	2.5	26
130	Confined Optical Vibrations in CdTe Quantum Dots and Clusters. Physica Status Solidi (B): Basic Research, 2002, 229, 433-437.	0.7	25
131	Alloying Behavior of Selfâ€Assembled Noble Metal Nanoparticles. Chemistry - A European Journal, 2016, 22, 13446-13450.	1.7	25
132	pH and concentration dependence of the optical properties of thiol-capped CdTe nanocrystals in water and D₂O. Physical Chemistry Chemical Physics, 2016, 18, 19083-19092.	1.3	25
133	Quantum dot emitters in two-dimensional photonic crystals of macroporous silicon. Applied Physics Letters, 2005, 87, 142107.	1.5	24
134	Formation of Copper Nanowires by Electroless Deposition Using Microtubules as Templates. Journal of Nanoscience and Nanotechnology, 2008, 8, 3416-3421.	0.9	24
135	Saturated near-resonant refractive optical nonlinearity in CdTe quantum dots. Optics Letters, 2010, 35, 1079.	1.7	24
136	Versatile Tri(pyrazolyl)phosphanes as Phosphorus Precursors for the Synthesis of Highly Emitting InP/ZnS Quantum Dots. Angewandte Chemie - International Edition, 2017, 56, 14737-14742.	7.2	24
137	Confined optical modes in small photonic molecules with semiconductor nanocrystals. Journal of Applied Physics, 2004, 96, 6761-6765.	1.1	22
138	Homogeneity and elemental distribution in self-assembled bimetallic Pdâ€“Pt aerogels prepared by a spontaneous one-step gelation process. Physical Chemistry Chemical Physics, 2016, 18, 20640-20650.	1.3	22
139	Light emission in a directional photonic bandgap. Physica Status Solidi A, 2003, 197, 662-672.	1.7	21
140	Confocal microscopy and spectroscopy of nanocrystals on a high-Qmicrosphere resonator. Journal of Optics B: Quantum and Semiclassical Optics, 2004, 6, 154-158.	1.4	21
141	Sodium Chloride Protected CdHgTe Quantum Dot Based Solid-State Near-Infrared Luminophore for Light-Emitting Devices and Luminescence Thermometry. ACS Photonics, 2017, 4, 1459-1465.	3.2	21
142	Precise Engineering of Nanocrystal Shells via Colloidal Atomic Layer Deposition. Chemistry of Materials, 2017, 29, 8111-8118.	3.2	21
143	Emission stimulation in a directional band gap of a CdTe-loaded opal photonic crystal. Physical Review E, 2004, 69, 046606.	0.8	20
144	Structural Analysis and Electrochemical Properties of Bimetallic Palladiumâ€“Platinum Aerogels Prepared by a Twoâ€Step Gelation Process. ChemCatChem, 2017, 9, 798-808.	1.8	20

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145	Magneto-Optical Studies of HgTe/HgxCd1â^'xTe(S) Core-Shell Nanocrystals. ChemPhysChem, 2003, 4, 1203-1210.	1.0	19
146	Highly conductive silver nanowire networks by organic matrix assisted low-temperature fusing. Organic Electronics, 2014, 15, 3818-3824.	1.4	19
147	Highly emitting perovskite quantum dots are finally available in water. MRS Communications, 2019, 9, 1-2.	0.8	18
148	Hyperbolic metamaterials based on quantum-dot plasmon-resonator nanocomposites. Optics Express, 2014, 22, 18290.	1.7	17
149	Stable and efficient colour enrichment powders of nonpolar nanocrystals in LiCl. Nanoscale, 2015, 7, 17611-17616.	2.8	17
150	Macrocrystals of Colloidal Quantum Dots in Anthracene: Exciton Transfer and Polarized Emission. Journal of Physical Chemistry Letters, 2015, 6, 1767-1772.	2.1	17
151	Transfer of Inorganic-Capped Nanocrystals into Aqueous Media. Journal of Physical Chemistry Letters, 2017, 8, 5573-5578.	2.1	17
152	Insights into different photoluminescence mechanisms of binary and ternary aqueous nanocrystals from the temperature dependence: A case study of CdSe and Ag-In-S. Journal of Luminescence, 2019, 215, 116630.	1.5	17
153	Robust Polymer Matrix Based on Isobutylene (Co)polymers for Efficient Encapsulation of Colloidal Semiconductor Nanocrystals. ACS Applied Nano Materials, 2019, 2, 956-963.	2.4	17
154	Temperatureâ€Dependent Photoluminescence of Silverâ€Indiumâ€Sulfide Nanocrystals in Aqueous Colloidal Solutions. ChemPhysChem, 2019, 20, 1640-1648.	1.0	17
155	Highly directional emission from colloidally synthesized nanocrystals in vertical cavities with small mode spacing. Applied Physics Letters, 2004, 84, 2223-2225.	1.5	16
156	Effect of chemical composition on luminescence of thiol-stabilized CdTe nanocrystals. Nanoscale Research Letters, 2007, 2, 230-234.	3.1	16
157	One-Phase Synthesis of Gold Nanoparticles with Varied Solubility. Langmuir, 2011, 27, 10224-10227.	1.6	16
158	Influence of the stabilizing ligand on the quality, signal-relevant optical properties, and stability of near-infrared emitting Cd1â^'xHgxTe nanocrystals. Journal of Materials Chemistry C, 2014, 2, 5011-5018.	2.7	16
159	Immobilization of pH-sensitive CdTe Quantum Dots in a Poly(acrylate) Hydrogel for Microfluidic Applications. Nanoscale Research Letters, 2017, 12, 314.	3.1	16
160	Sweet plasmonics: Sucrose macrocrystals of metal nanoparticles. Nano Research, 2015, 8, 860-869.	5.8	15
161	Mercury-indium-sulfide nanocrystals: A new member of the family of ternary in based chalcogenides. Journal of Chemical Physics, 2019, 151, 144701.	1.2	15
162	Highly efficient nonradiative energy transfer mediated light harvesting in water using aqueous CdTe quantum dot antennas. Optics Express, 2010, 18, 10720.	1.7	14

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