

# Nikolai Gaponik

## List of Publications by Year in descending order

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297  
papers

16,172  
citations

14644

66  
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17580

121  
g-index

307  
all docs

307  
docs citations

307  
times ranked

15329  
citing authors

#	ARTICLE	IF	CITATIONS
1	Influence of particle architecture on the photoluminescence properties of silica-coated CdSe core/shell quantum dots. <i>Analytical and Bioanalytical Chemistry</i> , 2022, 414, 4427-4439.	1.9	6
2	Self-Supported Three-Dimensional Quantum Dot Aerogels as a Promising Photocatalyst for CO <sub>2</sub> Reduction. <i>Chemistry of Materials</i> , 2022, 34, 2687-2695.	3.2	12
3	Selectively Tunable Luminescence of Perovskite Nanocrystals Embedded in Polymer Matrix Allows Direct Laser Patterning. <i>Advanced Optical Materials</i> , 2022, 10, .	3.6	4
4	Color Enrichment Solids of Spectrally Pure Colloidal Quantum Wells for Wide Color Span in Displays. <i>Advanced Optical Materials</i> , 2022, 10, .	3.6	1
5	Mechanosynthesis of polymer-stabilized lead bromide perovskites: insight into the formation and phase conversion of nanoparticles. <i>Nano Research</i> , 2021, 14, 1078-1086.	5.8	8
6	Silanized Luminescent Quantum Dots for the Simultaneous Multicolor Lateral Flow Immunoassay of Two Mycotoxins. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 24575-24584.	4.0	62
7	Boosting Photocatalytic CO <sub>2</sub> Reduction on CsPbBr <sub>3</sub> Perovskite Nanocrystals by Immobilizing Metal Complexes. <i>Chemistry of Materials</i> , 2020, 32, 1517-1525.	3.2	197
8	Highly Luminescent and Water-Resistant CsPbBr <sub>3</sub> –CsPb <sub>2</sub> Br <sub>5</sub> Perovskite Nanocrystals Coordinated with Partially Hydrolyzed Poly(methyl methacrylate) and Polyethylenimine. <i>ACS Nano</i> , 2019, 13, 10386-10396.	7.3	110
9	Insights into different photoluminescence mechanisms of binary and ternary aqueous nanocrystals from the temperature dependence: A case study of CdSe and Ag-In-S. <i>Journal of Luminescence</i> , 2019, 215, 116630.	1.5	17
10	Mercury-indium-sulfide nanocrystals: A new member of the family of ternary in based chalcogenides. <i>Journal of Chemical Physics</i> , 2019, 151, 144701.	1.2	15
11	Robust Polymer Matrix Based on Isobutylene (Co)polymers for Efficient Encapsulation of Colloidal Semiconductor Nanocrystals. <i>ACS Applied Nano Materials</i> , 2019, 2, 956-963.	2.4	17
12	Quantum Dots and Quantum Rods. <i>Nanoscience and Technology</i> , 2019, , 29-51.	1.5	5
13	Influence of the average molar mass of poly(N-vinylpyrrolidone) on the dimensions and conductivity of silver nanowires. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 9036-9043.	1.3	13
14	Temperature-Dependent Photoluminescence of Silver-Indium-Sulfide Nanocrystals in Aqueous Colloidal Solutions. <i>ChemPhysChem</i> , 2019, 20, 1640-1648.	1.0	17
15	Photoluminescence properties of self-assembled chitosan-based composites containing semiconductor nanocrystals. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 4831-4838.	1.3	5
16	Inherently Broadband Photoluminescence in Ag-In-S/ZnS Quantum Dots Observed in Ensemble and Single-Particle Studies. <i>Journal of Physical Chemistry C</i> , 2019, 123, 2632-2641.	1.5	53
17	Highly emitting perovskite quantum dots are finally available in water. <i>MRS Communications</i> , 2019, 9, 1-2.	0.8	18
18	Origin of the Broadband Photoluminescence of Pristine and Cu <sup>+</sup> /Ag <sup>+</sup> -Doped Ultrasmall CdS and CdSe/CdS Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2018, 122, 10267-10277.	1.5	37

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19	Brightly Luminescent Cu-Zn-In-S/ZnS Core/Shell Quantum Dots in Salt Matrices. <i>Zeitschrift Fur Physikalische Chemie</i> , 2018, 233, 23-40.	1.4	8
20	Luminescence and photoelectrochemical properties of size-selected aqueous copper-doped Ag <sup>+</sup> In <sup>3+</sup> S quantum dots. <i>RSC Advances</i> , 2018, 8, 7550-7557.	1.7	51
21	Aqueous-Based Cadmium Telluride Quantum Dot/Polyurethane/Polyhedral Oligomeric Silsesquioxane Composites for Color Enhancement in Display Backlights. <i>Journal of Physical Chemistry C</i> , 2018, 122, 13391-13398.	1.5	12
22	Incorporation of CdTe Nanocrystals into Metal Oxide Matrices Towards Inorganic Nanocomposite Materials. <i>Zeitschrift Fur Physikalische Chemie</i> , 2018, 232, 1335-1352.	1.4	3
23	Congratulations to Alexander Eychmüller. <i>Zeitschrift Fur Physikalische Chemie</i> , 2018, 232, 1263-1266.	1.4	0
24	Raman characterization of Cu <sub>2</sub> ZnSnS <sub>4</sub> nanocrystals: phonon confinement effect and formation of Cu <sub>x</sub> S phases. <i>RSC Advances</i> , 2018, 8, 30736-30746.	1.7	37
25	“Green” Aqueous Synthesis and Advanced Spectral Characterization of Size-Selected Cu <sub>2</sub> ZnSnS <sub>4</sub> Nanocrystal Inks. <i>Scientific Reports</i> , 2018, 8, 13677.	1.6	39
26	Solar light harvesting with multinary metal chalcogenide nanocrystals. <i>Chemical Society Reviews</i> , 2018, 47, 5354-5422.	18.7	177
27	All-Inorganic and Hybrid Capping of Nanocrystals as Key to Their Application-Relevant Processing. <i>MRS Advances</i> , 2018, 3, 2923-2930.	0.5	3
28	Emerging Hierarchical Aerogels: Self-Assembly of Metal and Semiconductor Nanocrystals. <i>Advanced Materials</i> , 2018, 30, e1707518.	11.1	104
29	Moderne Anorganische Aerogele. <i>Angewandte Chemie</i> , 2017, 129, 13380-13403.	1.6	11
30	Modern Inorganic Aerogels. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 13200-13221.	7.2	303
31	Quenching of quantum dots luminescence under light irradiation and its influence on the biological application. <i>Journal of Physics: Conference Series</i> , 2017, 784, 012014.	0.3	8
32	Immobilization of pH-sensitive CdTe Quantum Dots in a Poly(acrylate) Hydrogel for Microfluidic Applications. <i>Nanoscale Research Letters</i> , 2017, 12, 314.	3.1	16
33	Sodium Chloride Protected CdHgTe Quantum Dot Based Solid-State Near-Infrared Luminophore for Light-Emitting Devices and Luminescence Thermometry. <i>ACS Photonics</i> , 2017, 4, 1459-1465.	3.2	21
34	A Fine Size Selection of Brightly Luminescent Water-Soluble Ag <sup>+</sup> In <sup>3+</sup> S and Ag <sup>+</sup> In <sup>3+</sup> S/ZnS Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2017, 121, 9032-9042.	1.5	131
35	Hybrid N-Butylamine-Based Ligands for Switching the Colloidal Solubility and Regimentation of Inorganic-Capped Nanocrystals. <i>ACS Nano</i> , 2017, 11, 1559-1571.	7.3	49
36	Simulation study of environmentally friendly quantum-dot-based photovoltaic windows. <i>Journal of Materials Chemistry C</i> , 2017, 5, 11790-11797.	2.7	8

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37	Transfer of Inorganic-Capped Nanocrystals into Aqueous Media. Journal of Physical Chemistry Letters, 2017, 8, 5573-5578.	2.1	17
38	Tri(pyrazolyl)phosphane als Vorstufen für die Synthese von stark emittierenden InP/ZnS-Quantenpunkten. Angewandte Chemie, 2017, 129, 14932-14937.	1.6	2
39	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
40	Electrochemical Tuning of Localized Surface Plasmon Resonance in Copper Chalcogenide Nanocrystals. Journal of Physical Chemistry C, 2017, 121, 18244-18253.	1.5	41
41	Precise Engineering of Nanocrystal Shells via Colloidal Atomic Layer Deposition. Chemistry of Materials, 2017, 29, 8111-8118.	3.2	21
42	Quantum Dot in Polymer Composites via Advanced Surface Engineering. Small Methods, 2017, 1, 1700189.	4.6	29
43	Photoelectrochemical Properties of Nanoheterostructures Based on Titanium Dioxide and Ag-In-S Quantum Dots Produced by Size-Selective Precipitation. Theoretical and Experimental Chemistry, 2017, 53, 251-258.	0.2	1
44	Tetrazole-Stabilized Gold Nanoparticles for Catalytic Applications. Zeitschrift Fur Physikalische Chemie, 2017, 231, 51-62.	1.4	11
45	Structural Analysis and Electrochemical Properties of Bimetallic Palladium-Platinum Aerogels Prepared by a Two-Step Gelation Process. ChemCatChem, 2017, 9, 798-808.	1.8	20
46	QUANTUM DOTS IN ROBUST MATRICES: STATE OF THE ART. , 2017, , 251-256.		0
47	Enhancing Förster nonradiative energy transfer via plasmon interaction. , 2016, , .		1
48	3D Assembly of All-Inorganic Colloidal Nanocrystals into Gels and Aerogels. Angewandte Chemie - International Edition, 2016, 55, 6334-6338.	7.2	75
49	Chloride and Indium-Chloride-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
50	Probing Absolute Electronic Energy Levels in Hg-Doped CdTe Semiconductor Nanocrystals by Electrochemistry and Density Functional Theory. ChemPhysChem, 2016, 17, 244-252.	1.0	7
51	Homogeneity and elemental distribution in self-assembled bimetallic Pd-Pt aerogels prepared by a spontaneous one-step gelation process. Physical Chemistry Chemical Physics, 2016, 18, 20640-20650.	1.3	22
52	3D-Anordnung anorganischer kolloidaler Nanokristalle zu Gelen und Aerogelen. Angewandte Chemie, 2016, 128, 6442-6446.	1.6	9
53	Frontispiece: Alloying Behavior of Self-Assembled Noble Metal Nanoparticles. Chemistry - A European Journal, 2016, 22, .	1.7	1
54	Colloidal Nanocrystals Embedded in Macrocrystals: Methods and Applications. Journal of Physical Chemistry Letters, 2016, 7, 4117-4123.	2.1	28

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55	Cold Flow as Versatile Approach for Stable and Highly Luminescent Quantum Dot-Salt Composites. ACS Applied Materials & Interfaces, 2016, 8, 21570-21575.	4.0	28
56	Simultane Bestimmung spektraler Eigenschaften und Größen von multiplen Partikeln in Lösung mit Subnanometer-Auflösung. Angewandte Chemie, 2016, 128, 11944-11949.	1.6	2
57	5-(2-Mercaptoethyl)-1H-tetrazole: Facile Synthesis and Application for the Preparation of Water Soluble Nanocrystals and Their Gels. Chemistry - A European Journal, 2016, 22, 14746-14752.	1.7	8
58	Solid-State Anion Exchange Reactions for Color Tuning of CsPbX <sub>3</sub> Perovskite Nanocrystals. Chemistry of Materials, 2016, 28, 9033-9040.	3.2	182
59	Alloying Behavior of Self-Assembled Noble Metal Nanoparticles. Chemistry - A European Journal, 2016, 22, 13446-13450.	1.7	25
60	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
61	Methods to Characterize the Oligonucleotide Functionalization of Quantum Dots. Small, 2016, 12, 4763-4771.	5.2	10
62	pH and concentration dependence of the optical properties of thiol-capped CdTe nanocrystals in water and D <sub>2</sub> O. Physical Chemistry Chemical Physics, 2016, 18, 19083-19092.	1.3	25
63	Multiexciton generation assisted highly photosensitive CdHgTe nanocrystal skins. Nano Energy, 2016, 26, 324-331.	8.2	5
64	Cyclic voltammetry as a sensitive method for in situ probing of chemical transformations in quantum dots. Physical Chemistry Chemical Physics, 2016, 18, 10355-10361.	1.3	5
65	Chiroptical activity in colloidal quantum dots coated with achiral ligands. Optics Express, 2016, 24, A65.	1.7	6
66	Excitonic improvement of colloidal nanocrystals in salt powder matrix for quality lighting and color enrichment. Optics Express, 2016, 24, A74.	1.7	8
67	Flexible and fragmentable tandem photosensitive nanocrystal skins. Nanoscale, 2016, 8, 4495-4503.	2.8	5
68	Chiral Ag nanostructure arrays as optical antennas. , 2015, , .		1
69	Tetrazoles: Unique Capping Ligands and Precursors for Nanostructured Materials. Small, 2015, 11, 5728-5739.	5.2	31
70	Semiconductor Nanocrystals: Liquid-Liquid Diffusion-Assisted Crystallization: A Fast and Versatile Approach Toward High Quality Mixed Quantum Dot-Salt Crystals (Adv. Funct. Mater. 18/2015). Advanced Functional Materials, 2015, 25, 2783-2783.	7.8	1
71	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
72	QD-Salt Mixed Crystals: the Influence of Salt-Type, Free-Stabilizer, and pH. Zeitschrift Fur Physikalische Chemie, 2015, 229, 109-118.	1.4	9

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73	Exciton transfer and polarized emission in colloidal quantum dot - anthracene crystals. , 2015, , .		0
74	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.	2.8	62
75	Noble Metal Aerogelsâ€”Synthesis, Characterization, and Application as Electrocatalysts. <i>Accounts of Chemical Research</i> , 2015, 48, 154-162.	7.6	313
76	Stable and efficient colour enrichment powders of nonpolar nanocrystals in LiCl. <i>Nanoscale</i> , 2015, 7, 17611-17616.	2.8	17
77	3D assembly of silica encapsulated semiconductor nanocrystals. <i>Nanoscale</i> , 2015, 7, 12713-12721.	2.8	12
78	Macrocrystals of Colloidal Quantum Dots in Anthracene: Exciton Transfer and Polarized Emission. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 1767-1772.	2.1	17
79	Liquidâ€”Liquid Diffusionâ€”Assisted Crystallization: A Fast and Versatile Approach Toward High Quality Mixed Quantum Dotâ€”Salt Crystals. <i>Advanced Functional Materials</i> , 2015, 25, 2638-2645.	7.8	52
80	Humidity assisted annealing technique for transparent conductive silver nanowire networks. <i>RSC Advances</i> , 2015, 5, 19659-19665.	1.7	32
81	Implementation of High-Quality Warm-White Light-Emitting Diodes by a Model-Experimental Feedback Approach Using Quantum Dotâ€”Salt Mixed Crystals. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 23364-23371.	4.0	48
82	Absolute photoluminescence quantum yields of IR26 and IR-emissive Cd <sub>1-x</sub> Hg <sub>x</sub> Te and PbS quantum dots â€” method- and material-inherent challenges. <i>Nanoscale</i> , 2015, 7, 133-143.	2.8	74
83	Sweet plasmonics: Sucrose macrocrystals of metal nanoparticles. <i>Nano Research</i> , 2015, 8, 860-869.	5.8	15
84	Hyperbolic metamaterials based on quantum-dot plasmon-resonator nanocomposites. <i>Optics Express</i> , 2014, 22, 18290.	1.7	17
85	ITOâ€”Free, Smallâ€”Molecule Organic Solar Cells on Sprayâ€”Coated Copperâ€”Nanowireâ€”Based Transparent Electrodes. <i>Advanced Energy Materials</i> , 2014, 4, 1300737.	10.2	110
86	Multimetallic Aerogels by Template-Free Self-Assembly of Au, Ag, Pt, and Pd Nanoparticles. <i>Chemistry of Materials</i> , 2014, 26, 1074-1083.	3.2	148
87	A Versatile Approach for a Variety of Amphiphilic Nanoparticles: Semiconductor â€” Plasmonic â€” Magnetic. <i>Zeitschrift Fur Physikalische Chemie</i> , 2014, 228, 171-181.	1.4	1
88	Influence of the stabilizing ligand on the quality, signal-relevant optical properties, and stability of near-infrared emitting Cd <sub>1-x</sub> Hg <sub>x</sub> Te nanocrystals. <i>Journal of Materials Chemistry C</i> , 2014, 2, 5011-5018.	2.7	16
89	Highly conductive silver nanowire networks by organic matrix assisted low-temperature fusing. <i>Organic Electronics</i> , 2014, 15, 3818-3824.	1.4	19
90	Experimental and Theoretical Investigation of the Distance Dependence of Localized Surface Plasmon Coupled FÃ¶rster Resonance Energy Transfer. <i>ACS Nano</i> , 2014, 8, 1273-1283.	7.3	130

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91	Europium fluoride based luminescent materials: From hydrogels to porous cryogels, and crystalline NaEuF <sub>4</sub> and EuF <sub>3</sub> micro/nanostructures. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2014, 179, 48-51.	1.7	8
92	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.	3.2	67
93	A novel concept to generate single photons: incoherent conversion from the visible into the infrared spectrum. <i>Proceedings of SPIE</i> , 2013, , .	0.8	0
94	Automated setup for spray assisted layer-by-layer deposition. <i>Review of Scientific Instruments</i> , 2013, 84, 074101.	0.6	6
95	Bimetallic Aerogels: High-Performance Electrocatalysts for the Oxygen Reduction Reaction. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 9849-9852.	7.2	246
96	Mixed Aerogels from Au and CdTe Nanoparticles. <i>Advanced Functional Materials</i> , 2013, 23, 1903-1911.	7.8	60
97	Resonance energy transfer in self-organized organic/inorganic dendrite structures. <i>Nanoscale</i> , 2013, 5, 9317.	2.8	12
98	Colloidal semiconductor nanocrystals: the aqueous approach. <i>Chemical Society Reviews</i> , 2013, 42, 2905-2929.	18.7	247
99	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.	7.2	103
100	Experimental and theoretical investigations of the ligand structure of water-soluble CdTe nanocrystals. <i>Dalton Transactions</i> , 2013, 42, 12733.	1.6	29
101	Large Enhancement of Nonlinear Optical Response in a Hybrid Nanobiomaterial Consisting of Bacteriorhodopsin and Cadmium Telluride Quantum Dots. <i>ACS Nano</i> , 2013, 7, 2154-2160.	7.3	28
102	Effect of Electrochemical Charge Injection on the Photoluminescence Properties of CdSe Quantum Dot Monolayers Anchored to Oxide Substrates. <i>Zeitschrift Fur Physikalische Chemie</i> , 2013, , 130311033635007.	1.4	0
103	Bio-nanohybrids of quantum dots and photoproteins facilitating strong nonradiative energy transfer. <i>Nanoscale</i> , 2013, 5, 7034.	2.8	8
104	Enzyme-Encapsulated Quantum Dot Hydrogels in the Development of Biosensors: A Multifunctional Platform for Both Bio-Catalysis and Fluorescent Probing. <i>ECS Transactions</i> , 2013, 50, 255-258.	0.3	3
105	Metal Nanoparticle Aerogels and Their Applications. <i>ECS Transactions</i> , 2013, 45, 149-154.	0.3	6
106	NANOCRYSTALS IN INORGANIC MATRICES: MATERIALS WITH ROBUST PERFORMANCE. , 2013, , .		0
107	ENHANCEMENT EFFECTS AT JUNCTIONS OF CROSSED SILVER NANOWIRES WITH J-AGGREGATES. , 2013, , .		0
108	Aqueous Synthesis of Colloidal CdTe Nanocrystals. , 2013, , 23-59.		0

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109	Incoherent photon conversion in selectively infiltrated hollow-core photonic crystal fibers for single photon generation in the near infrared. <i>Optics Express</i> , 2012, 20, 11536.	1.7	4
110	Large energy transfer distance to a plane of gold nanoparticles. , 2012, , .		3
111	Emissive Semiconductor Nanocrystals: Recent Progress. <i>ECS Transactions</i> , 2012, 45, 61-66.	0.3	0
112	Quantum-Dot-Based (Aero)gels: Control of the Optical Properties. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 2188-2193.	2.1	40
113	Enhancement effects in plasmonic nanocavities with quantum emitters. , 2012, , .		0
114	Large-area (> 50 cm $\times$ 50 cm), freestanding, flexible, optical membranes of Cd-free nanocrystal quantum dots. , 2012, , .		0
115	Penetration of Amphiphilic Quantum Dots through Model and Cellular Plasma Membranes. <i>ACS Nano</i> , 2012, 6, 2150-2156.	7.3	59
116	Hybrid organic/inorganic semiconductor nanostructures with highly efficient energy transfer. <i>Journal of Materials Chemistry</i> , 2012, 22, 10816.	6.7	44
117	Colloidal Nanocrystals Embedded in Macrocrystals: Robustness, Photostability, and Color Purity. <i>Nano Letters</i> , 2012, 12, 5348-5354.	4.5	136
118	Effect of Metal Nanoparticle Concentration on Localized Surface Plasmon Mediated Förster Resonant Energy Transfer. <i>Journal of Physical Chemistry C</i> , 2012, 116, 26529-26534.	1.5	39
119	Wavelength, Concentration, and Distance Dependence of Nonradiative Energy Transfer to a Plane of Gold Nanoparticles. <i>ACS Nano</i> , 2012, 6, 9283-9290.	7.3	131
120	Application of Polymer Quantum Dot-Enzyme Hybrids in the Biosensor Development and Test Paper Fabrication. <i>Analytical Chemistry</i> , 2012, 84, 5047-5052.	3.2	67
121	Colloidal Nanocrystal-Based Gels and Aerogels: Material Aspects and Application Perspectives. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 8-17.	2.1	155
122	High-Performance Electrocatalysis on Palladium Aerogels. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 5743-5747.	7.2	181
123	Application Prospects of Spray-Assisted Layer-by-Layer Assembly of Colloidal Nanoparticles. <i>ChemPhysChem</i> , 2012, 13, 2128-2132.	1.0	7
124	Large-Area (over 50 cm $\times$ 50 cm) Freestanding Films of Colloidal InP/ZnS Quantum Dots. <i>Nano Letters</i> , 2012, 12, 3986-3993.	4.5	104
125	One-Phase Synthesis of Gold Nanoparticles with Varied Solubility. <i>Langmuir</i> , 2011, 27, 10224-10227.	1.6	16
126	Surface Plasmon Enhanced Energy Transfer between Donor and Acceptor CdTe Nanocrystal Quantum Dot Monolayers. <i>Nano Letters</i> , 2011, 11, 3341-3345.	4.5	159



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127	Anisotropic Emission from Multilayered Plasmon Resonator Nanocomposites of Isotropic Semiconductor Quantum Dots. ACS Nano, 2011, 5, 1328-1334.	7.3	66
128	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
129	Electrochemical Patterning of Polyaniline on Insulating Substrates. Zeitschrift Fur Physikalische Chemie, 2011, 225, 373-378.	1.4	1
130	Concentration dependence of Förster resonant energy transfer between donor and acceptor nanocrystal quantum dot layers: Effect of donor-donor interactions. Physical Review B, 2011, 83, .	1.1	111
131	Modification of the FRET rate in quantum dot structures. , 2011, , .		0
132	Enhanced quantum efficiency in mixed donor-acceptor nanocrystal quantum dot monolayers. , 2011, , .		1
133	Enhanced quantum dot deposition on ZnO nanorods for photovoltaics through layer-by-layer processing. Journal of Materials Chemistry, 2011, 21, 2517.	6.7	51
134	Synthesis and Agglomeration of Silver Nanoparticles Stabilized with 5-R-Tetrazoles. Zeitschrift Fur Physikalische Chemie, 2011, 225, 363-371.	1.4	9
135	Quantum dot integrated LEDs using photonic and excitonic color conversion. Nano Today, 2011, 6, 632-647.	6.2	245
136	Photoluminescence properties of heat-treated porous alumina films formed in oxalic acid. Journal of Luminescence, 2011, 131, 938-942.	1.5	46
137	All - Optical spatial light modulator using CdTe quantum dots. , 2011, , .		0
138	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
139	Thiol-capped CdTe nanocrystals: progress and perspectives of the related research fields. Physical Chemistry Chemical Physics, 2010, 12, 8685.	1.3	113
140	Layer-by-Layer All-Inorganic Quantum-Dot-Based LEDs: A Simple Procedure with Robust Performance. Advanced Functional Materials, 2010, 20, 3298-3302.	7.8	61
141	Progress in the Light Emission of Colloidal Semiconductor Nanocrystals. Small, 2010, 6, 1364-1378.	5.2	159
142	Gels and aerogels from colloidal nanocrystals. , 2010, , .		0
143	Optical limiting in polystyrene embedded nanocrystals. , 2010, , .		0
144	Influence of localised surface plasmons on energy transfer between quantum dots. , 2010, , .		0

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145	Observation of anisotropic emission from semiconductor quantum dots in nanocomposites of metal nanoparticles. , 2010, , .		0
146	Influence of intra-ensemble energy transfer on the properties of nanocrystal quantum dot structures and devices. , 2010, , .		1
147	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
148	Influence of quantum dot concentration on Förster resonant energy transfer in monodispersed nanocrystal quantum dot monolayers. Physical Review B, 2010, 81, .	1.1	85
149	Highly efficient nonradiative energy transfer mediated light harvesting in water using aqueous CdTe quantum dot antennas. Optics Express, 2010, 18, 10720.	1.7	14
150	Energy transfer in colloidal CdTe quantum dot nanoclusters. Optics Express, 2010, 18, 24486.	1.7	27
151	Saturated near-resonant refractive optical nonlinearity in CdTe quantum dots. Optics Letters, 2010, 35, 1079.	1.7	24
152	Self-Assembly of TGA-Capped CdTe Nanocrystals into Three-Dimensional Luminescent Nanostructures. Chemistry of Materials, 2010, 22, 2309-2314.	3.2	58
153	One-step aqueous synthesis of blue-emitting glutathione-capped ZnSe <sub>1-x</sub> Te <sub>x</sub> alloyed nanocrystals. Chemical Communications, 2010, 46, 886-888.	2.2	53
154	Assemblies of thiol-capped nanocrystals as building blocks for use in nanotechnology. Journal of Materials Chemistry, 2010, 20, 5174.	6.7	40
155	Amphiphilic and magnetic behavior of Fe <sub>3</sub> O <sub>4</sub> nanocrystals. Physical Chemistry Chemical Physics, 2010, 12, 2063.	1.3	8
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