

Nikolai Gaponik

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.

252
papers

14,048
citations

63
h-index

112
g-index

307
ext. papers

15,215
ext. citations

7.3
avg, IF

6.32
L-index

#	Paper	IF	Citations
252	Influence of particle architecture on the photoluminescence properties of silica-coated CdSe core/shell quantum dots.. <i>Analytical and Bioanalytical Chemistry</i> , 2022 , 1	4.4	0
251	Self-Supported Three-Dimensional Quantum Dot Aerogels as a Promising Photocatalyst for CO2 Reduction. <i>Chemistry of Materials</i> , 2022 , 34, 2687-2695	9.6	1
250	Mechanosynthesis of polymer-stabilized lead bromide perovskites: insight into the formation and phase conversion of nanoparticles. <i>Nano Research</i> , 2021 , 14, 1078-1086	10	0
249	Silanized Luminescent Quantum Dots for the Simultaneous Multicolor Lateral Flow Immunoassay of Two Mycotoxins. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 24575-24584	9.5	30
248	Boosting Photocatalytic CO2 Reduction on CsPbBr3 Perovskite Nanocrystals by Immobilizing Metal Complexes. <i>Chemistry of Materials</i> , 2020 , 32, 1517-1525	9.6	112
247	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	5.6	9
246	Quantum Dots and Quantum Rods. <i>Nanoscience and Technology</i> , 2019 , 29-51	0.6	4
245	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	3.6	10
244	Temperature-Dependent Photoluminescence of Silver-Indium-Sulfide Nanocrystals in Aqueous Colloidal Solutions. <i>ChemPhysChem</i> , 2019 , 20, 1640-1648	3.2	12
243	Highly Luminescent and Water-Resistant CsPbBr-CsPbBr Perovskite Nanocrystals Coordinated with Partially Hydrolyzed Poly(methyl methacrylate) and Polyethylenimine. <i>ACS Nano</i> , 2019 , 13, 10386-10396	16.7	55
242	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	3.8	9
241	Mercury-indium-sulfide nanocrystals: A new member of the family of ternary in based chalcogenides. <i>Journal of Chemical Physics</i> , 2019 , 151, 144701	3.9	6
240	Photoluminescence properties of self-assembled chitosan-based composites containing semiconductor nanocrystals. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 4831-4838	3.6	3
239	Inherently Broadband Photoluminescence in AgInS/ZnS Quantum Dots Observed in Ensemble and Single-Particle Studies. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 2632-2641	3.8	35
238	Highly emitting perovskite quantum dots are finally available in water. <i>MRS Communications</i> , 2019 , 9, 1-2	2.7	15
237	Origin of the Broadband Photoluminescence of Pristine and Cu+/Ag+-Doped Ultrasmall CdS and CdSe/CdS Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 10267-10277	3.8	23
236	Brightly Luminescent Cu-Zn-In-S/ZnS Core/Shell Quantum Dots in Salt Matrices. <i>Zeitschrift Fur Physikalische Chemie</i> , 2018 , 233, 23-40	3.1	7

235	Luminescence and photoelectrochemical properties of size-selected aqueous copper-doped Ag-In-S quantum dots.. <i>RSC Advances</i> , 2018 , 8, 7550-7557	3.7	40
234	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	3.8	11
233	Incorporation of CdTe Nanocrystals into Metal Oxide Matrices Towards Inorganic Nanocomposite Materials. <i>Zeitschrift Fur Physikalische Chemie</i> , 2018 , 232, 1335-1352	3.1	3
232	Emerging Hierarchical Aerogels: Self-Assembly of Metal and Semiconductor Nanocrystals. <i>Advanced Materials</i> , 2018 , 30, e1707518	24	74
231	Congratulations to Alexander Eychmüller. <i>Zeitschrift Fur Physikalische Chemie</i> , 2018 , 232, 1263-1266	3.1	
230	Raman characterization of CuZnSnS nanocrystals: phonon confinement effect and formation of Cu S phases.. <i>RSC Advances</i> , 2018 , 8, 30736-30746	3.7	25
229	"Green" Aqueous Synthesis and Advanced Spectral Characterization of Size-Selected CuZnSnS Nanocrystal Inks. <i>Scientific Reports</i> , 2018 , 8, 13677	4.9	25
228	Solar light harvesting with multinary metal chalcogenide nanocrystals. <i>Chemical Society Reviews</i> , 2018 , 47, 5354-5422	58.5	122
227	All-Inorganic and Hybrid Capping of Nanocrystals as Key to Their Application-Relevant Processing. <i>MRS Advances</i> , 2018 , 3, 2923-2930	0.7	3
226	Moderne Anorganische Aerogele. <i>Angewandte Chemie</i> , 2017 , 129, 13380-13403	3.6	10
225	Modern Inorganic Aerogels. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 13200-13221	16.4	200
224	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	3
223	Immobilization of pH-sensitive CdTe Quantum Dots in a Poly(acrylate) Hydrogel for Microfluidic Applications. <i>Nanoscale Research Letters</i> , 2017 , 12, 314	5	14
222	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	6.3	15
221	A Fine Size Selection of Brightly Luminescent Water-Soluble AgInS and AgInS/ZnS Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 9032-9042	3.8	94
220	Hybrid N-Butylamine-Based Ligands for Switching the Colloidal Solubility and Regimentation of Inorganic-Capped Nanocrystals. <i>ACS Nano</i> , 2017 , 11, 1559-1571	16.7	37
219	Simulation study of environmentally friendly quantum-dot-based photovoltaic windows. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 11790-11797	7.1	6
218	Transfer of Inorganic-Capped Nanocrystals into Aqueous Media. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 5573-5578	6.4	14

217	Tri(pyrazolyl)phosphane als Vorstufen für die Synthese von stark emittierenden InP/ZnS-Quantenpunkten. <i>Angewandte Chemie</i> , 2017 , 129, 14932-14937	3.6	2
216	Versatile Tri(pyrazolyl)phosphanes as Phosphorus Precursors for the Synthesis of Highly Emitting InP/ZnS Quantum Dots. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 14737-14742	16.4	18
215	Electrochemical Tuning of Localized Surface Plasmon Resonance in Copper Chalcogenide Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 18244-18253	3.8	32
214	Precise Engineering of Nanocrystal Shells via Colloidal Atomic Layer Deposition. <i>Chemistry of Materials</i> , 2017 , 29, 8111-8118	9.6	16
213	Quantum-Dot-in-Polymer Composites via Advanced Surface Engineering. <i>Small Methods</i> , 2017 , 1, 1700189-189.8	2.8	20
212	Photoelectrochemical Properties of Nanoheterostructures Based on Titanium Dioxide and Ag-In-S Quantum Dots Produced by Size-Selective Precipitation. <i>Theoretical and Experimental Chemistry</i> , 2017 , 53, 251-258	1.3	
211	Tetrazole-Stabilized Gold Nanoparticles for Catalytic Applications. <i>Zeitschrift Fur Physikalische Chemie</i> , 2017 , 231,	3.1	8
210	Structural Analysis and Electrochemical Properties of Bimetallic Palladium-Platinum Aerogels Prepared by a Two-Step Gelation Process. <i>ChemCatChem</i> , 2017 , 9, 798-808	5.2	13
209	QUANTUM DOTS IN ROBUST MATRICES: STATE OF THE ART 2017 , 251-256		
208	Simultane Bestimmung spektraler Eigenschaften und Größen von multiplen Partikeln in Lösung mit Subnanometer-Auflösung. <i>Angewandte Chemie</i> , 2016 , 128, 11944-11949	3.6	2
207	5-(2-Mercaptoethyl)-1H-tetrazole: Facile Synthesis and Application for the Preparation of Water Soluble Nanocrystals and Their Gels. <i>Chemistry - A European Journal</i> , 2016 , 22, 14746-52	4.8	7
206	Solid-State Anion Exchange Reactions for Color Tuning of CsPbX ₃ Perovskite Nanocrystals. <i>Chemistry of Materials</i> , 2016 , 28, 9033-9040	9.6	145
205	Alloying Behavior of Self-Assembled Noble Metal Nanoparticles. <i>Chemistry - A European Journal</i> , 2016 , 22, 13446-50	4.8	19
204	Simultaneous Identification of Spectral Properties and Sizes of Multiple Particles in Solution with Subnanometer Resolution. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 11770-4	16.4	37
203	Methods to Characterize the Oligonucleotide Functionalization of Quantum Dots. <i>Small</i> , 2016 , 12, 4763-71	7.1	10
202	pH and concentration dependence of the optical properties of thiol-capped CdTe nanocrystals in water and D ₂ O. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 19083-92	3.6	21
201	Multiexciton generation assisted highly photosensitive CdHgTe nanocrystal skins. <i>Nano Energy</i> , 2016 , 26, 324-331	17.1	3
200	Cyclic voltammetry as a sensitive method for in situ probing of chemical transformations in quantum dots. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 10355-61	3.6	4

199	Chiroptical activity in colloidal quantum dots coated with achiral ligands. <i>Optics Express</i> , 2016 , 24, A65-73,3	6
198	Excitonic improvement of colloidal nanocrystals in salt powder matrix for quality lighting and color enrichment. <i>Optics Express</i> , 2016 , 24, A74-84	3.3 7
197	Flexible and fragmentable tandem photosensitive nanocrystal skins. <i>Nanoscale</i> , 2016 , 8, 4495-503	7.7 4
196	3D Assembly of All-Inorganic Colloidal Nanocrystals into Gels and Aerogels. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 6334-8	16.4 56
195	Chloride and Indium-Chloride-Complex Inorganic Ligands for Efficient Stabilization of Nanocrystals in Solution and Doping of Nanocrystal Solids. <i>Advanced Functional Materials</i> , 2016 , 26, 2163-2175	15.6 37
194	Probing Absolute Electronic Energy Levels in Hg-Doped CdTe Semiconductor Nanocrystals by Electrochemistry and Density Functional Theory. <i>ChemPhysChem</i> , 2016 , 17, 244-52	3.2 6
193	Homogeneity and elemental distribution in self-assembled bimetallic Pd-Pt aerogels prepared by a spontaneous one-step gelation process. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 20640-50	3.6 14
192	3D-Anordnung anorganischer kolloidaler Nanokristalle zu Gelen und Aerogelen. <i>Angewandte Chemie</i> , 2016 , 128, 6442-6446	3.6 7
191	Frontispiece: Alloying Behavior of Self-Assembled Noble Metal Nanoparticles. <i>Chemistry - A European Journal</i> , 2016 , 22,	4.8 1
190	Colloidal Nanocrystals Embedded in Macrocrystals: Methods and Applications. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 4117-4123	6.4 24
189	Cold Flow as Versatile Approach for Stable and Highly Luminescent Quantum Dot-Salt Composites. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 21570-5	9.5 24
188	Noble metal aerogels-synthesis, characterization, and application as electrocatalysts. <i>Accounts of Chemical Research</i> , 2015 , 48, 154-62	24.3 233
187	Stable and efficient colour enrichment powders of nonpolar nanocrystals in LiCl. <i>Nanoscale</i> , 2015 , 7, 17611-6	7.7 15
186	3D assembly of silica encapsulated semiconductor nanocrystals. <i>Nanoscale</i> , 2015 , 7, 12713-21	7.7 11
185	Macrocrystals of Colloidal Quantum Dots in Anthracene: Exciton Transfer and Polarized Emission. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 1767-72	6.4 15
184	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	15.6 44
183	Humidity assisted annealing technique for transparent conductive silver nanowire networks. <i>RSC Advances</i> , 2015 , 5, 19659-19665	3.7 28
182	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, 23364-71	9.5 41

181	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, 133-43	7.7	58
180	Sweet plasmonics: Sucrose macrocrystals of metal nanoparticles. <i>Nano Research</i> , 2015 , 8, 860-869	10	14
179	Chiral Ag nanostructure arrays as optical antennas 2015 ,		1
178	Tetrazoles: Unique Capping Ligands and Precursors for Nanostructured Materials. <i>Small</i> , 2015 , 11, 5728-5739		26
177	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). <i>Advanced Functional Materials</i> , 2015 , 25, 2783-2783	15.6	1
176	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	9.6	52
175	QD-Salt Mixed Crystals: the Influence of Salt-Type, Free-Stabilizer, and pH. <i>Zeitschrift Fur Physikalische Chemie</i> , 2015 , 229,	3.1	9
174	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, 2777-83	7.7	56
173	Multimetallic Aerogels by Template-Free Self-Assembly of Au, Ag, Pt, and Pd Nanoparticles. <i>Chemistry of Materials</i> , 2014 , 26, 1074-1083	9.6	116
172	A Versatile Approach for a Variety of Amphiphilic Nanoparticles: Semiconductor [Plasmonic] Magnetic. <i>Zeitschrift Fur Physikalische Chemie</i> , 2014 , 228, 171-181	3.1	1
171	Influence of the stabilizing ligand on the quality, signal-relevant optical properties, and stability of near-infrared emitting Cd1-xHg(x)Te nanocrystals. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 5011-5018	7.1	16
170	Highly conductive silver nanowire networks by organic matrix assisted low-temperature fusing. <i>Organic Electronics</i> , 2014 , 15, 3818-3824	3.5	17
169	Experimental and theoretical investigation of the distance dependence of localized surface plasmon coupled Föster resonance energy transfer. <i>ACS Nano</i> , 2014 , 8, 1273-83	16.7	110
168	Europium fluoride based luminescent materials: From hydrogels to porous cryogels, and crystalline NaEuF4 and EuF3 micro/nanostructures. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2014 , 179, 48-51	3.1	7
167	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	9.6	58
166	Hyperbolic metamaterials based on quantum-dot plasmon-resonator nanocomposites. <i>Optics Express</i> , 2014 , 22, 18290-8	3.3	15
165	ITO-Free, Small-Molecule Organic Solar Cells on Spray-Coated Copper-Nanowire-Based Transparent Electrodes. <i>Advanced Energy Materials</i> , 2014 , 4, 1300737	21.8	91
164	Automated setup for spray assisted layer-by-layer deposition. <i>Review of Scientific Instruments</i> , 2013 , 84, 074101	1.7	6

163	Bimetallic aerogels: high-performance electrocatalysts for the oxygen reduction reaction. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 9849-52	16.4	211
162	Bimetall-Aerogele: hoch effiziente Elektrokatalysatoren für die Sauerstoffreduktion. <i>Angewandte Chemie</i> , 2013 , 125, 10033-10037	3.6	38
161	Mixed Aerogels from Au and CdTe Nanoparticles. <i>Advanced Functional Materials</i> , 2013 , 23, 1903-1911	15.6	50
160	Resonance energy transfer in self-organized organic/inorganic dendrite structures. <i>Nanoscale</i> , 2013 , 5, 9317-23	7.7	11
159	Colloidal semiconductor nanocrystals: the aqueous approach. <i>Chemical Society Reviews</i> , 2013 , 42, 2905-2985	28.5	218
158	Enzyme-Encapsulating Quantum Dot Hydrogels and Xerogels as Biosensors: Multifunctional Platforms for Both Biocatalysis and Fluorescent Probing. <i>Angewandte Chemie</i> , 2013 , 125, 1010-1013	3.6	23
157	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, 976-9	16.4	92
156	Experimental and theoretical investigations of the ligand structure of water-soluble CdTe nanocrystals. <i>Dalton Transactions</i> , 2013 , 42, 12733-40	4.3	28
155	Large enhancement of nonlinear optical response in a hybrid nanobiomaterial consisting of bacteriorhodopsin and cadmium telluride quantum dots. <i>ACS Nano</i> , 2013 , 7, 2154-60	16.7	27
154	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 , 130311033633007	3.1	007
153	Bio-nanohybrids of quantum dots and photoproteins facilitating strong nonradiative energy transfer. <i>Nanoscale</i> , 2013 , 5, 7034-40	7.7	8
152	Metal Nanoparticle Aerogels and Their Applications. <i>ECS Transactions</i> , 2013 , 45, 149-154	1	4
151	Aqueous Synthesis of Colloidal CdTe Nanocrystals 2013 , 23-59		
150	Quantum-Dot-Based (Aero)gels: Control of the Optical Properties. <i>Journal of Physical Chemistry Letters</i> , 2012 , 3, 2188-93	6.4	31
149	Penetration of amphiphilic quantum dots through model and cellular plasma membranes. <i>ACS Nano</i> , 2012 , 6, 2150-6	16.7	56
148	Hybrid organic/inorganic semiconductor nanostructures with highly efficient energy transfer. <i>Journal of Materials Chemistry</i> , 2012 , 22, 10816		41
147	Colloidal nanocrystals embedded in macrocrystals: robustness, photostability, and color purity. <i>Nano Letters</i> , 2012 , 12, 5348-54	11.5	116
146	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	3.8	34

145	Wavelength, concentration, and distance dependence of nonradiative energy transfer to a plane of gold nanoparticles. <i>ACS Nano</i> , 2012 , 6, 9283-90	16.7	117
144	Application of polymer quantum dot-enzyme hybrids in the biosensor development and test paper fabrication. <i>Analytical Chemistry</i> , 2012 , 84, 5047-52	7.8	65
143	Colloidal Nanocrystal-Based Gels and Aerogels: Material Aspects and Application Perspectives. <i>Journal of Physical Chemistry Letters</i> , 2012 , 3, 8-17	6.4	139
142	Palladium-Aerogele für die hocheffiziente Elektrokatalyse. <i>Angewandte Chemie</i> , 2012 , 124, 5841-5846	3.6	28
141	High-performance electrocatalysis on palladium aerogels. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 5743-7	16.4	149
140	Application prospects of spray-assisted layer-by-layer assembly of colloidal nanoparticles. <i>ChemPhysChem</i> , 2012 , 13, 2128-32	3.2	6
139	Large-area (over 50 cm × 50 cm) freestanding films of colloidal InP/ZnS quantum dots. <i>Nano Letters</i> , 2012 , 12, 3986-93	11.5	91
138	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, 11536-47	3.3	2
137	Large energy transfer distance to a plane of gold nanoparticles 2012 ,		3
136	Surface plasmon enhanced energy transfer between donor and acceptor CdTe nanocrystal quantum dot monolayers. <i>Nano Letters</i> , 2011 , 11, 3341-5	11.5	137
135	Anisotropic emission from multilayered plasmon resonator nanocomposites of isotropic semiconductor quantum dots. <i>ACS Nano</i> , 2011 , 5, 1328-34	16.7	63
134	3D assembly of semiconductor and metal nanocrystals: hybrid CdTe/Au structures with controlled content. <i>Journal of the American Chemical Society</i> , 2011 , 133, 13413-20	16.4	99
133	Electrochemical Patterning of Polyaniline on Insulating Substrates. <i>Zeitschrift Fur Physikalische Chemie</i> , 2011 , 225, 373-378	3.1	0
132	Concentration dependence of Förster resonant energy transfer between donor and acceptor nanocrystal quantum dot layers: Effect of donor-donor interactions. <i>Physical Review B</i> , 2011 , 83,	3.3	96
131	Enhanced quantum dot deposition on ZnO nanorods for photovoltaics through layer-by-layer processing. <i>Journal of Materials Chemistry</i> , 2011 , 21, 2517		50
130	Synthesis and Agglomeration of Silver Nanoparticles Stabilized with 5-R-Tetrazoles. <i>Zeitschrift Fur Physikalische Chemie</i> , 2011 , 225, 363-371	3.1	8
129	Quantum dot integrated LEDs using photonic and excitonic color conversion. <i>Nano Today</i> , 2011 , 6, 632-647	17.9	212
128	One-phase synthesis of gold nanoparticles with varied solubility. <i>Langmuir</i> , 2011 , 27, 10224-7	4	15

127	Photoluminescence properties of heat-treated porous alumina films formed in oxalic acid. <i>Journal of Luminescence</i> , 2011 , 131, 938-942	3.8	36
126	Influence of intra-ensemble energy transfer on the properties of nanocrystal quantum dot structures and devices 2010 ,		1
125	Organization of Nanoparticles 2010 , 311-370		1
124	CdTe nanocrystals capped with a tetrazolyl analogue of thioglycolic acid: aqueous synthesis, characterization, and metal-assisted assembly. <i>ACS Nano</i> , 2010 , 4, 4090-6	16.7	68
123	Influence of quantum dot concentration on Förster resonant energy transfer in monodispersed nanocrystal quantum dot monolayers. <i>Physical Review B</i> , 2010 , 81,	3.3	76
122	Highly efficient nonradiative energy transfer mediated light harvesting in water using aqueous CdTe quantum dot antennas. <i>Optics Express</i> , 2010 , 18, 10720-30	3.3	11
121	Energy transfer in colloidal CdTe quantum dot nanoclusters. <i>Optics Express</i> , 2010 , 18, 24486-94	3.3	26
120	Saturated near-resonant refractive optical nonlinearity in CdTe quantum dots. <i>Optics Letters</i> , 2010 , 35, 1079-81	3	20
119	Self-Assembly of TGA-Capped CdTe Nanocrystals into Three-Dimensional Luminescent Nanostructures. <i>Chemistry of Materials</i> , 2010 , 22, 2309-2314	9.6	52
118	One-step aqueous synthesis of blue-emitting glutathione-capped ZnSe(1-x)Te(x) alloyed nanocrystals. <i>Chemical Communications</i> , 2010 , 46, 886-8	5.8	48
117	Assemblies of thiol-capped nanocrystals as building blocks for use in nanotechnology. <i>Journal of Materials Chemistry</i> , 2010 , 20, 5174		35
116	Amphiphilic and magnetic behavior of Fe ₃ O ₄ nanocrystals. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 2063-6	3.6	7
115	Resonance energy transfer improves the biological function of bacteriorhodopsin within a hybrid material built from purple membranes and semiconductor quantum dots. <i>Nano Letters</i> , 2010 , 10, 2640-8	11.5	67
114	Thiol-capped CdTe nanocrystals: progress and perspectives of the related research fields. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 8685-93	3.6	105
113	Layer-by-Layer All-Inorganic Quantum-Dot-Based LEDs: A Simple Procedure with Robust Performance. <i>Advanced Functional Materials</i> , 2010 , 20, 3298-3302	15.6	54
112	Progress in the light emission of colloidal semiconductor nanocrystals. <i>Small</i> , 2010 , 6, 1364-78	11	147
111	Structural tuning of color chromaticity through nonradiative energy transfer by interspacing CdTe nanocrystal monolayers. <i>Applied Physics Letters</i> , 2009 , 94, 061105	3.4	37
110	Optical limiting in CdTe nanocrystals embedded in polystyrene 2009 ,		2

109	Hydrogele und Aerogele aus Edelmetallnanopartikeln. <i>Angewandte Chemie</i> , 2009 , 121, 9911-9915	3.6	32
108	Hydrogels and aerogels from noble metal nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 9731-4	16.4	223
107	Synthesis of Amphiphilic CdTe Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 4748-4750	3.8	29
106	Determination of the Fluorescence Quantum Yield of Quantum Dots: Suitable Procedures and Achievable Uncertainties. <i>Analytical Chemistry</i> , 2009 , 81, 6285-6294	7.8	482
105	One-pot aqueous synthesis of high quality near infrared emitting Cd _{1-x} Hg _x Te nanocrystals. <i>Journal of Materials Chemistry</i> , 2009 , 19, 9147		36
104	Tuning shades of white light with multi-color quantum-dot-quantum-well emitters based on onion-like CdSe-ZnS heteronanocrystals. <i>Nanotechnology</i> , 2008 , 19, 335203	3.4	42
103	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	52
102	Studying the Reactions of CdTe Nanostructures and Thin CdTe Films with Ag ⁺ and AuCl ₄ ⁻ . <i>Journal of Physical Chemistry C</i> , 2008 , 112, 8881-8889	3.8	34
101	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, 113110	3.4	67
100	Toward efficient blue-emitting thiol-capped Zn _{1-x} Cd _x Se nanocrystals. <i>Journal of Materials Chemistry</i> , 2008 , 18, 5142		31
99	Covalent immobilization of quantum dots on macroscopic surfaces using poly(acrylic acid) brushes. <i>Journal of Materials Chemistry</i> , 2008 , 18, 214-220		56
98	Ultrafast Interfacial Charge Carrier Dynamics in ZnSe and ZnSe/ZnS Core/Shell Nanoparticles: Influence of Shell Formation. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 2703-2710	3.8	38
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