

# Nikolai Gaponik

## List of Publications by Citations

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252  
papers

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63  
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112  
g-index

307  
ext. papers

15,215  
ext. citations

7.3  
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6.32  
L-index

#	Paper	IF	Citations
252	Thiol-Capping of CdTe Nanocrystals: An Alternative to Organometallic Synthetic Routes. <i>Journal of Physical Chemistry B</i> , <b>2002</b> , 106, 7177-7185	3.4	1387
251	Aqueous Synthesis of Thiol-Capped CdTe Nanocrystals: State-of-the-Art. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 14628-14637	3.8	645
250	Determination of the Fluorescence Quantum Yield of Quantum Dots: Suitable Procedures and Achievable Uncertainties. <i>Analytical Chemistry</i> , <b>2009</b> , 81, 6285-6294	7.8	482
249	Light-emitting diodes with semiconductor nanocrystals. <i>Angewandte Chemie - International Edition</i> , <b>2008</b> , 47, 6538-49	16.4	284
248	Nanoengineered polymer capsules: tools for detection, controlled delivery, and site-specific manipulation. <i>Small</i> , <b>2005</b> , 1, 194-200	11	259
247	Noble metal aerogels-synthesis, characterization, and application as electrocatalysts. <i>Accounts of Chemical Research</i> , <b>2015</b> , 48, 154-62	24.3	233
246	Efficient Phase Transfer of Luminescent Thiol-Capped Nanocrystals: From Water to Nonpolar Organic Solvents. <i>Nano Letters</i> , <b>2002</b> , 2, 803-806	11.5	228
245	A New Approach to Crystallization of CdSe Nanoparticles into Ordered Three-Dimensional Superlattices. <i>Advanced Materials</i> , <b>2001</b> , 13, 1868	24	226
244	Hydrogels and aerogels from noble metal nanoparticles. <i>Angewandte Chemie - International Edition</i> , <b>2009</b> , 48, 9731-4	16.4	223
243	Colloidal semiconductor nanocrystals: the aqueous approach. <i>Chemical Society Reviews</i> , <b>2013</b> , 42, 2905-2935	28.5	218
242	Quantum dot integrated LEDs using photonic and excitonic color conversion. <i>Nano Today</i> , <b>2011</b> , 6, 632-647	17.9	212
241	Bimetallic aerogels: high-performance electrocatalysts for the oxygen reduction reaction. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 9849-52	16.4	211
240	Nonfunctionalized nanocrystals can exploit a cell's active transport machinery delivering them to specific nuclear and cytoplasmic compartments. <i>Nano Letters</i> , <b>2007</b> , 7, 3452-61	11.5	204
239	Efficient UV-Blue Photoluminescing Thiol-Stabilized Water-Soluble Alloyed ZnSe(S) Nanocrystals. <i>Journal of Physical Chemistry B</i> , <b>2004</b> , 108, 5905-5908	3.4	203
238	Modern Inorganic Aerogels. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 13200-13221	16.4	200
237	Size-dependent electrochemical behavior of thiol-capped CdTe nanocrystals in aqueous solution. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 1094-100	3.4	196
236	Relations between the Photoluminescence Efficiency of CdTe Nanocrystals and Their Surface Properties Revealed by Synchrotron XPS. <i>Journal of Physical Chemistry B</i> , <b>2003</b> , 107, 9662-9668	3.4	182

235	Etching of Colloidal InP Nanocrystals with Fluorides: Photochemical Nature of the Process Resulting in High Photoluminescence Efficiency. <i>Journal of Physical Chemistry B</i> , <b>2002</b> , 106, 12659-12663 <sup>3,4</sup>	3.4	182
234	Factors governing the quality of aqueous CdTe nanocrystals: calculations and experiment. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 19280-4	3.4	172
233	Toward Encoding Combinatorial Libraries: Charge-Driven Microencapsulation of Semiconductor Nanocrystals Luminescing in the Visible and Near IR. <i>Advanced Materials</i> , <b>2002</b> , 14, 879	24	172
232	Luminescent polymer microcapsules addressable by a magnetic field. <i>Langmuir</i> , <b>2004</b> , 20, 1449-52	4	161
231	High-performance electrocatalysis on palladium aerogels. <i>Angewandte Chemie - International Edition</i> , <b>2012</b> , 51, 5743-7	16.4	149
230	CoreShell Structures Formed by the Solvent-Controlled Precipitation of Luminescent CdTe Nanocrystals on Latex Spheres. <i>Advanced Materials</i> , <b>2001</b> , 13, 1684-1687	24	148
229	Progress in the light emission of colloidal semiconductor nanocrystals. <i>Small</i> , <b>2010</b> , 6, 1364-78	11	147
228	Solid-State Anion Exchange Reactions for Color Tuning of CsPbX <sub>3</sub> Perovskite Nanocrystals. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 9033-9040	9.6	145
227	Controlled Fabrication of Gold-Coated 3D Ordered Colloidal Crystal Films and Their Application in Surface-Enhanced Raman Spectroscopy. <i>Chemistry of Materials</i> , <b>2005</b> , 17, 5731-5736	9.6	142
226	Colloidal Nanocrystal-Based Gels and Aerogels: Material Aspects and Application Perspectives. <i>Journal of Physical Chemistry Letters</i> , <b>2012</b> , 3, 8-17	6.4	139
225	Surface plasmon enhanced energy transfer between donor and acceptor CdTe nanocrystal quantum dot monolayers. <i>Nano Letters</i> , <b>2011</b> , 11, 3341-5	11.5	137
224	Labeling of Biocompatible Polymer Microcapsules with Near-Infrared Emitting Nanocrystals. <i>Nano Letters</i> , <b>2003</b> , 3, 369-372	11.5	137
223	Solar light harvesting with multinary metal chalcogenide nanocrystals. <i>Chemical Society Reviews</i> , <b>2018</b> , 47, 5354-5422	58.5	122
222	Comparative examination of the stability of semiconductor quantum dots in various biochemical buffers. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 1959-63	3.4	119
221	Wavelength, concentration, and distance dependence of nonradiative energy transfer to a plane of gold nanoparticles. <i>ACS Nano</i> , <b>2012</b> , 6, 9283-90	16.7	117
220	Multimetallic Aerogels by Template-Free Self-Assembly of Au, Ag, Pt, and Pd Nanoparticles. <i>Chemistry of Materials</i> , <b>2014</b> , 26, 1074-1083	9.6	116
219	Colloidal nanocrystals embedded in macrocrystals: robustness, photostability, and color purity. <i>Nano Letters</i> , <b>2012</b> , 12, 5348-54	11.5	116
218	Fast energy transfer in layer-by-layer assembled CdTe nanocrystal bilayers. <i>Applied Physics Letters</i> , <b>2004</b> , 84, 2904-2906	3.4	115

217	Electrochemical synthesis of CdTe nanocrystal/polypyrrole composites for optoelectronic applications. <i>Journal of Materials Chemistry</i> , <b>2000</b> , 10, 2163-2166		115
216	Boosting Photocatalytic CO <sub>2</sub> Reduction on CsPbBr <sub>3</sub> Perovskite Nanocrystals by Immobilizing Metal Complexes. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 1517-1525	9.6	112
215	Lateral Patterning of CdTe Nanocrystal Films by the Electric Field Directed Layer-by-Layer Assembly Method. <i>Langmuir</i> , <b>2002</b> , 18, 4098-4102	4	111
214	Experimental and theoretical investigation of the distance dependence of localized surface plasmon coupled Förster resonance energy transfer. <i>ACS Nano</i> , <b>2014</b> , 8, 1273-83	16.7	110
213	Thiol-capped CdTe nanocrystals: progress and perspectives of the related research fields. <i>Physical Chemistry Chemical Physics</i> , <b>2010</b> , 12, 8685-93	3.6	105
212	Three-Dimensional Self-Assembly of Thiol-Capped CdTe Nanocrystals: Gels and Aerogels as Building Blocks for Nanotechnology. <i>Advanced Materials</i> , <b>2008</b> , 20, 4257-4262	24	103
211	3D assembly of semiconductor and metal nanocrystals: hybrid CdTe/Au structures with controlled content. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 13413-20	16.4	99
210	Off-resonance surface plasmon enhanced spontaneous emission from CdTe quantum dots. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 253118	3.4	99
209	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> , <b>2011</b> , 83,	3.3	96
208	A Fine Size Selection of Brightly Luminescent Water-Soluble AgInS and AgInS/ZnS Quantum Dots. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 9032-9042	3.8	94
207	A light-emitting device based on a CdTe nanocrystal/polyaniline composite. <i>Physical Chemistry Chemical Physics</i> , <b>1999</b> , 1, 1787-1789	3.6	93
206	Enzyme-encapsulating quantum dot hydrogels and xerogels as biosensors: multifunctional platforms for both biocatalysis and fluorescent probing. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 976-9	16.4	92
205	ITO-Free, Small-Molecule Organic Solar Cells on Spray-Coated Copper-Nanowire-Based Transparent Electrodes. <i>Advanced Energy Materials</i> , <b>2014</b> , 4, 1300737	21.8	91
204	Large-area (over 50 cm × 50 cm) freestanding films of colloidal InP/ZnS quantum dots. <i>Nano Letters</i> , <b>2012</b> , 12, 3986-93	11.5	91
203	Selective fabrication of ordered bimetallic nanostructures with hierarchical porosity. <i>Angewandte Chemie - International Edition</i> , <b>2005</b> , 44, 5997-6001	16.4	86
202	High-rate unidirectional energy transfer in directly assembled CdTe nanocrystal bilayers. <i>Small</i> , <b>2005</b> , 1, 392-5	11	78
201	Influence of quantum dot concentration on Förster resonant energy transfer in monodispersed nanocrystal quantum dot monolayers. <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	76
200	Emerging Hierarchical Aerogels: Self-Assembly of Metal and Semiconductor Nanocrystals. <i>Advanced Materials</i> , <b>2018</b> , 30, e1707518	24	74

199	Switchable photoluminescence of CdTe nanocrystals by temperature-responsive microgels. <i>Langmuir</i> , <b>2008</b> , 24, 9820-4	4	74
198	Fabrication and characterization of red-emitting electroluminescent devices based on thiol-stabilized semiconductor nanocrystals. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 034107	3.4	72
197	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> , <b>2002</b> , 14, 237-241	3	70
196	CdTe nanocrystals capped with a tetrazolyl analogue of thioglycolic acid: aqueous synthesis, characterization, and metal-assisted assembly. <i>ACS Nano</i> , <b>2010</b> , 4, 4090-6	16.7	68
195	Fine structure of coupled optical modes in photonic molecules. <i>Physical Review A</i> , <b>2004</b> , 70,	2.6	68
194	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> , <b>2010</b> , 10, 2640-8 <sup>11.5</sup>		67
193	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> , <b>2008</b> , 92, 113110	3.4	67
192	Application of polymer quantum dot-enzyme hybrids in the biosensor development and test paper fabrication. <i>Analytical Chemistry</i> , <b>2012</b> , 84, 5047-52	7.8	65
191	The Assembling of Semiconductor Nanocrystals. <i>European Journal of Inorganic Chemistry</i> , <b>2005</b> , 2005, 3613-3623	2.3	65
190	Anisotropic emission from multilayered plasmon resonator nanocomposites of isotropic semiconductor quantum dots. <i>ACS Nano</i> , <b>2011</b> , 5, 1328-34	16.7	63
189	Near-infrared electroluminescence from HgTe nanocrystals. <i>ChemPhysChem</i> , <b>2004</b> , 5, 1435-8	3.2	60
188	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> , <b>2015</b> , 7, 133-43	7.7	58
187	Photoluminescence Quantum Yield and Matrix-Induced Luminescence Enhancement of Colloidal Quantum Dots Embedded in Ionic Crystals. <i>Chemistry of Materials</i> , <b>2014</b> , 26, 3231-3237	9.6	58
186	A spray-coating process for highly conductive silver nanowire networks as the transparent top-electrode for small molecule organic photovoltaics. <i>Nanoscale</i> , <b>2015</b> , 7, 2777-83	7.7	56
185	Penetration of amphiphilic quantum dots through model and cellular plasma membranes. <i>ACS Nano</i> , <b>2012</b> , 6, 2150-6	16.7	56
184	Covalent immobilization of quantum dots on macroscopic surfaces using poly(acrylic acid) brushes. <i>Journal of Materials Chemistry</i> , <b>2008</b> , 18, 214-220		56
183	In-situ observation of nanowire growth from luminescent CdTe nanocrystals in a phosphate buffer solution. <i>ChemPhysChem</i> , <b>2004</b> , 5, 1600-2	3.2	56
182	3D Assembly of All-Inorganic Colloidal Nanocrystals into Gels and Aerogels. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 6334-8	16.4	56

181	Highly Luminescent and Water-Resistant CsPbBr <sub>3</sub> -CsPbBr <sub>3</sub> Perovskite Nanocrystals Coordinated with Partially Hydrolyzed Poly(methyl methacrylate) and Polyethylenimine. <i>ACS Nano</i> , <b>2019</b> , 13, 10386-10396	16.7	55
180	Layer-by-Layer All-Inorganic Quantum-Dot-Based LEDs: A Simple Procedure with Robust Performance. <i>Advanced Functional Materials</i> , <b>2010</b> , 20, 3298-3302	15.6	54
179	Stable Dispersion of Iodide-Capped PbSe Quantum Dots for High-Performance Low-Temperature Processed Electronics and Optoelectronics. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 4328-4337	9.6	52
178	Self-Assembly of TGA-Capped CdTe Nanocrystals into Three-Dimensional Luminescent Nanostructures. <i>Chemistry of Materials</i> , <b>2010</b> , 22, 2309-2314	9.6	52
177	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> , <b>2008</b> , 10, 023026	2.9	52
176	Mixed Aerogels from Au and CdTe Nanoparticles. <i>Advanced Functional Materials</i> , <b>2013</b> , 23, 1903-1911	15.6	50
175	Enhanced quantum dot deposition on ZnO nanorods for photovoltaics through layer-by-layer processing. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 2517		50
174	Whispering gallery mode emission from a composite system of CdTe nanocrystals and a spherical microcavity. <i>Semiconductor Science and Technology</i> , <b>2003</b> , 18, 914-918	1.8	49
173	One-step aqueous synthesis of blue-emitting glutathione-capped ZnSe(1-x)Te(x) alloyed nanocrystals. <i>Chemical Communications</i> , <b>2010</b> , 46, 886-8	5.8	48
172	Covalent linking of CdTe nanocrystals to amino-functionalized surfaces. <i>ChemPhysChem</i> , <b>2005</b> , 6, 449-513	3.2	46
171	Liquid-Liquid Diffusion-Assisted Crystallization: A Fast and Versatile Approach Toward High Quality Mixed Quantum Dot-Salt Crystals. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 2638-2645	15.6	44
170	Tuning shades of white light with multi-color quantum-dot-quantum-well emitters based on onion-like CdSe-ZnS heteronanocrystals. <i>Nanotechnology</i> , <b>2008</b> , 19, 335203	3.4	42
169	Investigation of Energy Transfer between CdTe Nanocrystals on Polystyrene Beads and Dye Molecules for FRET-SNOM Applications. <i>Journal of Physical Chemistry B</i> , <b>2004</b> , 108, 14527-14534	3.4	42
168	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 &amp; Interfaces</i> , <b>2015</b> , 7, 23364-71	9.5	41
167	Hybrid organic/inorganic semiconductor nanostructures with highly efficient energy transfer. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 10816		41
166	Luminescence and photoelectrochemical properties of size-selected aqueous copper-doped Ag-In-S quantum dots. <i>RSC Advances</i> , <b>2018</b> , 8, 7550-7557	3.7	40
165	Luminescent energy transfer between cadmium telluride nanoparticle and lanthanide(III) chelate in competitive bioaffinity assays of biotin and estradiol. <i>Analytica Chimica Acta</i> , <b>2007</b> , 604, 177-83	6.6	39
164	Bimetal-Aerogele: hoch effiziente Elektrokatalysatoren für die Sauerstoffreduktion. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 10033-10037	3.6	38

163	Ultrafast Interfacial Charge Carrier Dynamics in ZnSe and ZnSe/ZnS Core/Shell Nanoparticles: Influence of Shell Formation. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 2703-2710	3.8	38
162	Selective enhancement of surface-state emission and simultaneous quenching of interband transition in white-luminophor CdS nanocrystals using localized plasmon coupling. <i>New Journal of Physics</i> , <b>2008</b> , 10, 083035	2.9	38
161	Hybrid N-Butylamine-Based Ligands for Switching the Colloidal Solubility and Regimentation of Inorganic-Capped Nanocrystals. <i>ACS Nano</i> , <b>2017</b> , 11, 1559-1571	16.7	37
160	Simultaneous Identification of Spectral Properties and Sizes of Multiple Particles in Solution with Subnanometer Resolution. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 11770-4	16.4	37
159	Structural tuning of color chromaticity through nonradiative energy transfer by interspacing CdTe nanocrystal monolayers. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 061105	3.4	37
158	Chloride and Indium-Chloride-Complex Inorganic Ligands for Efficient Stabilization of Nanocrystals in Solution and Doping of Nanocrystal Solids. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 2163-2175	15.6	37
157	Photoluminescence properties of heat-treated porous alumina films formed in oxalic acid. <i>Journal of Luminescence</i> , <b>2011</b> , 131, 938-942	3.8	36
156	One-pot aqueous synthesis of high quality near infrared emitting Cd <sub>1-x</sub> Hg <sub>x</sub> Te nanocrystals. <i>Journal of Materials Chemistry</i> , <b>2009</b> , 19, 9147		36
155	Assemblies of thiol-capped nanocrystals as building blocks for use in nanotechnology. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 5174		35
154	Electrostatic and covalent interactions in CdTe nanocrystalline assemblies. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 20244-50	3.4	35
153	SYNTHESIS AND OPTICAL PROPERTIES OF WATER SOLUBLE ZnSe NANOCRYSTALS. <i>International Journal of Modern Physics B</i> , <b>2001</b> , 15, 3881-3884	1.1	35
152	Inherently Broadband Photoluminescence in AgInS/ZnS Quantum Dots Observed in Ensemble and Single-Particle Studies. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 2632-2641	3.8	35
151	Effect of Metal Nanoparticle Concentration on Localized Surface Plasmon Mediated Förster Resonant Energy Transfer. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 26529-26534	3.8	34
150	Studying the Reactions of CdTe Nanostructures and Thin CdTe Films with Ag <sup>+</sup> and AuCl <sub>4</sub> <sup>-</sup> . <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 8881-8889	3.8	34
149	Cathodic and Anodic Material Diffusion in Polymer/Semiconductor-Nanocrystal Composite Devices. <i>Advanced Materials</i> , <b>2007</b> , 19, 3364-3367	24	34
148	Highly efficient Förster resonance energy transfer between CdTe nanocrystals and Rhodamine B in mixed solid films. <i>Chemical Physics Letters</i> , <b>2004</b> , 388, 100-104	2.5	34
147	Branched wires of CdTe nanocrystals using amphiphilic molecules as templates. <i>Small</i> , <b>2005</b> , 1, 524-7	11	33
146	Electrochemical Tuning of Localized Surface Plasmon Resonance in Copper Chalcogenide Nanocrystals. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 18244-18253	3.8	32

145	Hydrogele und Aerogele aus Edelmetallnanopartikeln. <i>Angewandte Chemie</i> , <b>2009</b> , 121, 9911-9915	3.6	32
144	Quantum-Dot-Based (Aero)gels: Control of the Optical Properties. <i>Journal of Physical Chemistry Letters</i> , <b>2012</b> , 3, 2188-93	6.4	31
143	Toward efficient blue-emitting thiol-capped Zn <sub>1-x</sub> Cd <sub>x</sub> Se nanocrystals. <i>Journal of Materials Chemistry</i> , <b>2008</b> , 18, 5142		31
142	Silanized Luminescent Quantum Dots for the Simultaneous Multicolor Lateral Flow Immunoassay of Two Mycotoxins. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 24575-24584	9.5	30
141	Structure-related optical properties of luminescent hetero-opals. <i>Journal of Applied Physics</i> , <b>2004</b> , 95, 1029-1035	2.5	30
140	Raman scattering and anti-Stokes emission from a single spherical microcavity with a CdTe quantum dot monolayer. <i>Applied Physics Letters</i> , <b>2003</b> , 83, 2539-2541	3.4	30
139	Synthesis of Amphiphilic CdTe Nanocrystals. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 4748-4750	3.8	29
138	Subwavelength emitters in the near-infrared based on mercury telluride nanocrystals. <i>Applied Physics Letters</i> , <b>2004</b> , 84, 4732-4734	3.4	29
137	Humidity assisted annealing technique for transparent conductive silver nanowire networks. <i>RSC Advances</i> , <b>2015</b> , 5, 19659-19665	3.7	28
136	Experimental and theoretical investigations of the ligand structure of water-soluble CdTe nanocrystals. <i>Dalton Transactions</i> , <b>2013</b> , 42, 12733-40	4.3	28
135	Palladium-Aerogele für die hocheffiziente Elektrokatalyse. <i>Angewandte Chemie</i> , <b>2012</b> , 124, 5841-5846	3.6	28
134	White organic light-emitting devices incorporating nanoparticles of II-VI semiconductors. <i>Nanotechnology</i> , <b>2007</b> , 18, 335202	3.4	28
133	Electrochemical observation of the photoinduced formation of alloyed ZnSe(S) nanocrystals. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 19233-7	3.4	28
132	Large enhancement of nonlinear optical response in a hybrid nanobiomaterial consisting of bacteriorhodopsin and cadmium telluride quantum dots. <i>ACS Nano</i> , <b>2013</b> , 7, 2154-60	16.7	27
131	Quantum Dot Thin Layers Templated on ZnO Inverse Opals. <i>Advanced Materials</i> , <b>2006</b> , 18, 2768-2772	24	27
130	Tetrazoles: Unique Capping Ligands and Precursors for Nanostructured Materials. <i>Small</i> , <b>2015</b> , 11, 5728-39		26
129	Energy transfer in colloidal CdTe quantum dot nanoclusters. <i>Optics Express</i> , <b>2010</b> , 18, 24486-94	3.3	26
128	Modification of the spontaneous emission of CdTe nanocrystals in TiO <sub>2</sub> inverted opals. <i>Journal of Applied Physics</i> , <b>2003</b> , 94, 1205-1210	2.5	26



127	Raman characterization of CuZnSnS nanocrystals: phonon confinement effect and formation of Cu S phases.. <i>RSC Advances</i> , <b>2018</b> , 8, 30736-30746	3.7	25
126	"Green" Aqueous Synthesis and Advanced Spectral Characterization of Size-Selected CuZnSn Nanocrystal Inks. <i>Scientific Reports</i> , <b>2018</b> , 8, 13677	4.9	25
125	Confined Optical Vibrations in CdTe Quantum Dots and Clusters. <i>Physica Status Solidi (B): Basic Research</i> , <b>2002</b> , 229, 433-437	1.3	24
124	Colloidal Nanocrystals Embedded in Macrocrystals: Methods and Applications. <i>Journal of Physical Chemistry Letters</i> , <b>2016</b> , 7, 4117-4123	6.4	24
123	Cold Flow as Versatile Approach for Stable and Highly Luminescent Quantum Dot-Salt Composites. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 21570-5	9.5	24
122	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> , <b>2018</b> , 122, 10267-10277	3.8	23
121	Enzyme-Encapsulating Quantum Dot Hydrogels and Xerogels as Biosensors: Multifunctional Platforms for Both Biocatalysis and Fluorescent Probing. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 1010-1013	3.6	23
120	Formation of Copper Nanowires by Electroless Deposition Using Microtubules as Templates. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2008</b> , 8, 3416-3421	1.3	23
119	Electrochemical probing of thiol-capped nanocrystals. <i>Mikrochimica Acta</i> , <b>2008</b> , 160, 327-334	5.8	23
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