

# Daniel R Gamelin

## List of Publications by Citations

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168  
papers

12,857  
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59  
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110  
g-index

182  
ext. papers

14,335  
ext. citations

12.4  
avg, IF

6.83  
L-index

#	Paper	IF	Citations
168	Magnetic quantum dots: synthesis, spectroscopy, and magnetism of Co <sup>2+</sup> - and Ni <sup>2+</sup> -doped ZnO nanocrystals. <i>Journal of the American Chemical Society</i> , <b>2003</b> , 125, 13205-18	16.4	575
167	Photo-assisted electrodeposition of cobalt phosphide (Co <sub>3</sub> P) catalyst on hematite photoanodes for solar water oxidation. <i>Energy and Environmental Science</i> , <b>2011</b> , 4, 1759	35.4	564
166	Electronic structure origins of polarity-dependent high-TC ferromagnetism in oxide-diluted magnetic semiconductors. <i>Nature Materials</i> , <b>2006</b> , 5, 291-7	27	450
165	High-temperature ferromagnetism in Ni <sup>2+</sup> -doped ZnO aggregates prepared from colloidal diluted magnetic semiconductor quantum dots. <i>Physical Review Letters</i> , <b>2003</b> , 91, 157202	7.4	392
164	Synthesis of colloidal Mn <sup>2+</sup> :ZnO quantum dots and high-TC ferromagnetic nanocrystalline thin films. <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 9387-98	16.4	369
163	Mn <sup>2+</sup> -Doped CdSe Quantum Dots: New Inorganic Materials for Spin-Electronics and Spin-Photonics. <i>Advanced Functional Materials</i> , <b>2008</b> , 18, 3873-3891	15.6	353
162	Dual-Emitting Nanoscale Temperature Sensors. <i>Chemistry of Materials</i> , <b>2013</b> , 25, 1283-1292	9.6	322
161	Colloidal Nanocrystals of Lead-Free Double-Perovskite (Elpasolite) Semiconductors: Synthesis and Anion Exchange To Access New Materials. <i>Nano Letters</i> , <b>2018</b> , 18, 1118-1123	11.5	273
160	Light-induced spontaneous magnetization in doped colloidal quantum dots. <i>Science</i> , <b>2009</b> , 325, 973-6	33.3	268
159	Direct kinetic correlation of carriers and ferromagnetism in Co <sup>2+</sup> : ZnO. <i>Physical Review Letters</i> , <b>2006</b> , 97, 037203	7.4	267
158	Zero-reabsorption doped-nanocrystal luminescent solar concentrators. <i>ACS Nano</i> , <b>2014</b> , 8, 3461-7	16.7	248
157	Tunable dual emission in doped semiconductor nanocrystals. <i>Nano Letters</i> , <b>2010</b> , 10, 3670-4	11.5	246
156	Doped Semiconductor Nanocrystals: Synthesis, Characterization, Physical Properties, and Applications. <i>Progress in Inorganic Chemistry</i> , <b>2005</b> , 47-126		244
155	Composite photoanodes for photoelectrochemical solar water splitting. <i>Energy and Environmental Science</i> , <b>2010</b> , 3, 1252	35.4	231
154	Luminescent Colloidal Semiconductor Nanocrystals Containing Copper: Synthesis, Photophysics, and Applications. <i>Chemical Reviews</i> , <b>2016</b> , 116, 10820-51	68.1	223
153	State of the Art and Prospects for Halide Perovskite Nanocrystals. <i>ACS Nano</i> , <b>2021</b> , 15, 10775-10981	16.7	222
152	Nanocrystals for luminescent solar concentrators. <i>Nano Letters</i> , <b>2015</b> , 15, 1315-23	11.5	217

151	Photoluminescence Temperature Dependence, Dynamics, and Quantum Efficiencies in Mn <sup>2+</sup> -Doped CsPbCl <sub>3</sub> Perovskite Nanocrystals with Varied Dopant Concentration. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 8003-8011	9.6	203
150	Picosecond Quantum Cutting Generates Photoluminescence Quantum Yields Over 100% in Ytterbium-Doped CsPbCl Nanocrystals. <i>Nano Letters</i> , <b>2018</b> , 18, 3792-3799	11.5	200
149	Direct Observation of sp-d exchange interactions in colloidal Mn <sup>2+</sup> - and Co <sup>2+</sup> -doped CdSe quantum dots. <i>Nano Letters</i> , <b>2007</b> , 7, 1037-43	11.5	187
148	Colloidal transition-metal-doped ZnO quantum dots. <i>Journal of the American Chemical Society</i> , <b>2002</b> , 124, 15192-3	16.4	170
147	Spectroscopy of Mixed-Valence Cu <sup>A</sup> -Type Centers: Ligand-Field Control of Ground-State Properties Related to Electron Transfer. <i>Journal of the American Chemical Society</i> , <b>1998</b> , 120, 5246-5263	16.4	170
146	Spin-polarizable excitonic luminescence in colloidal Mn <sup>2+</sup> -doped CdSe quantum dots. <i>Nano Letters</i> , <b>2008</b> , 8, 1197-201	11.5	168
145	Water-soluble dual-emitting nanocrystals for ratiometric optical thermometry. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 14978-80	16.4	157
144	Singlet-Triplet Splittings in the Luminescent Excited States of Colloidal Cu(+):CdSe, Cu(+):InP, and CuInS <sub>2</sub> Nanocrystals: Charge-Transfer Configurations and Self-Trapped Excitons. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 13138-47	16.4	150
143	Mechanistic insights into solar water oxidation by cobalt-phosphate-modified Fe <sub>2</sub> O <sub>3</sub> photoanodes. <i>Energy and Environmental Science</i> , <b>2015</b> , 8, 577-584	35.4	149
142	Excited-State Contributions to Ground-State Properties of Mixed-Valence Dimers: Spectral and Electronic-Structural Studies of [Fe <sub>2</sub> (OH) <sub>3</sub> (tmtacn) <sub>2</sub> ] <sup>2+</sup> Related to the [Fe <sub>2</sub> S <sub>2</sub> ] <sup>+</sup> Active Sites of Plant-Type Ferredoxins. <i>Journal of the American Chemical Society</i> , <b>1996</b> , 118, 8085-8097	16.4	147
141	Nb-Doped Colloidal TiO <sub>2</sub> Nanocrystals with Tunable Infrared Absorption. <i>Chemistry of Materials</i> , <b>2013</b> , 25, 3383-3390	9.6	143
140	Kinetic analysis of photoelectrochemical water oxidation by mesostructured Co-Pi/Fe <sub>2</sub> O <sub>3</sub> photoanodes. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 2986-2994	13	141
139	Exciton storage by Mn(2+) in colloidal Mn(2+)-doped CdSe quantum dots. <i>Nano Letters</i> , <b>2008</b> , 8, 2949-53	11.5	136
138	Charge-controlled magnetism in colloidal doped semiconductor nanocrystals. <i>Nature Nanotechnology</i> , <b>2009</b> , 4, 681-7	28.7	135
137	Luminescence in colloidal Mn <sup>2+</sup> -doped semiconductor nanocrystals. <i>Journal of Solid State Chemistry</i> , <b>2008</b> , 181, 1582-1589	3.3	135
136	Nanocrystal diffusion doping. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 14380-9	16.4	129
135	Charge-tunable quantum plasmons in colloidal semiconductor nanocrystals. <i>ACS Nano</i> , <b>2014</b> , 8, 1065-72	16.7	119
134	Delayed Exciton Emission and Its Relation to Blinking in CdSe Quantum Dots. <i>Nano Letters</i> , <b>2015</b> , 15, 7718-25	11.5	113

133	Room-temperature electron spin dynamics in free-standing ZnO quantum dots. <i>Physical Review Letters</i> , <b>2007</b> , 98, 186804	7.4	108
132	Redox chemistries and plasmon energies of photodoped In <sub>2</sub> O <sub>3</sub> and Sn-doped In <sub>2</sub> O <sub>3</sub> (ITO) nanocrystals. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 518-24	16.4	107
131	Photochemical electronic doping of colloidal CdSe nanocrystals. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 18782-5	16.4	106
130	Inorganic cluster syntheses of TM <sup>2+</sup> -doped quantum dots (CdSe, CdS, CdSe/CdS): physical property dependence on dopant locale. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 9808-18	16.4	106
129	Electronic doping and redox-potential tuning in colloidal semiconductor nanocrystals. <i>Accounts of Chemical Research</i> , <b>2015</b> , 48, 1929-37	24.3	101
128	Controlling carrier densities in photochemically reduced colloidal ZnO nanocrystals: size dependence and role of the hole quencher. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 16569-77	16.4	101
127	Stable photogenerated carriers in magnetic semiconductor nanocrystals. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 3910-1	16.4	90
126	Quantum-Cutting Ytterbium-Doped CsPb(Cl <sub>1-x</sub> Br <sub>x</sub> ) <sub>3</sub> Perovskite Thin Films with Photoluminescence Quantum Yields over 190%. <i>ACS Energy Letters</i> , <b>2018</b> , 3, 2390-2395	20.1	87
125	Bright CuInS <sub>2</sub> /CdS nanocrystal phosphors for high-gain full-spectrum luminescent solar concentrators. <i>Chemical Communications</i> , <b>2015</b> , 51, 9129-32	5.8	84
124	Photoluminescence Blinking and Reversible Electron Trapping in Copper-Doped CdSe Nanocrystals. <i>Nano Letters</i> , <b>2015</b> , 15, 4045-51	11.5	84
123	Giant excitonic Zeeman splittings in colloidal Co <sup>2+</sup> -doped ZnSe quantum dots. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 13195-203	16.4	82
122	Anion Exchange in Cesium Lead Halide Perovskite Nanocrystals and Thin Films Using Trimethylsilyl Halide Reagents. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 4887-4891	9.6	78
121	Size-dependent trap-assisted Auger recombination in semiconductor nanocrystals. <i>Nano Letters</i> , <b>2013</b> , 13, 1810-5	11.5	75
120	Anion Exchange and the Quantum-Cutting Energy Threshold in Ytterbium-Doped CsPb(ClBr) Perovskite Nanocrystals. <i>Nano Letters</i> , <b>2019</b> , 19, 1931-1937	11.5	74
119	Spectroscopy of photovoltaic and photoconductive nanocrystalline Co <sup>2+</sup> -doped ZnO electrodes. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 14486-95	3.4	73
118	Excited-State Distortions and Electron Delocalization in Mixed-Valence Dimers: Vibronic Analysis of the Near-IR Absorption and Resonance Raman Profiles of [Fe(2)(OH)(3)(tmtacn)(2)](2+). <i>Inorganic Chemistry</i> , <b>1996</b> , 35, 4323-4335	5.1	73
117	Mid-Gap States and Normal vs Inverted Bonding in Luminescent Cu- and Ag-Doped CdSe Nanocrystals. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 6411-6421	16.4	69
116	Photoluminescence brightening via electrochemical trap passivation in ZnSe and Mn(2+)-doped ZnSe quantum dots. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 6819-25	16.4	63

115	Comparison of extra electrons in colloidal n-type Al(3+)-doped and photochemically reduced ZnO nanocrystals. <i>Chemical Communications</i> , <b>2012</b> , 48, 9352-4	5.8	63
114	Excited-State Exchange Coupling in Bent Mn(III)Mn(III) Complexes: Dominance of the $\pi$ Superexchange Pathway and Its Possible Contributions to the Reactivities of Binuclear Metalloproteins. <i>Journal of the American Chemical Society</i> , <b>2000</b> , 122, 8511-8523	16.4	63
113	Colloidal Transition-Metal-Doped Quantum Dots <b>2010</b> , 397-453		63
112	Single-Particle Photoluminescence Spectra, Blinking, and Delayed Luminescence of Colloidal CuInS <sub>2</sub> Nanocrystals. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 17136-17142	3.8	62
111	A Selective Cation Exchange Strategy for the Synthesis of Colloidal Yb-Doped Chalcogenide Nanocrystals with Strong Broadband Visible Absorption and Long-Lived Near-Infrared Emission. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 11814-11824	16.4	61
110	Quantum oscillations in magnetically doped colloidal nanocrystals. <i>Nature Nanotechnology</i> , <b>2011</b> , 6, 112-117	58.7	60
109	Spectroscopic Characterization of an Engineered Purple CuA Center in Azurin. <i>Inorganic Chemistry</i> , <b>1998</b> , 37, 191-198	5.1	59
108	Tuning the potentials of "extra" electrons in colloidal n-type ZnO nanocrystals via Mg <sup>2+</sup> substitution. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 7937-43	16.4	57
107	Effect of protons on the redox chemistry of colloidal zinc oxide nanocrystals. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 8492-5	16.4	56
106	Analysis of Optical Losses in High-Efficiency CuInS <sub>2</sub> -Based Nanocrystal Luminescent Solar Concentrators: Balancing Absorption versus Scattering. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 3252-3260	3.8	55
105	Size dependence of negative trion Auger recombination in photodoped CdSe nanocrystals. <i>Nano Letters</i> , <b>2014</b> , 14, 353-8	11.5	55
104	Electron Confinement Effects in the EPR Spectra of Colloidal n-Type ZnO Quantum Dots. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 14331-14335	3.8	55
103	Lanthanide-doped CaS and SrS luminescent nanocrystals: a single-source precursor approach for doping. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 16533-43	16.4	54
102	Investigation of pure and Co <sup>2+</sup> -doped ZnO quantum dot electronic structures using the density functional theory: choosing the right functional. <i>New Journal of Physics</i> , <b>2008</b> , 10, 055013	2.9	54
101	Bimodal bond-length distributions in cobalt-doped CdSe, ZnSe, and Cd <sub>1-x</sub> Zn <sub>x</sub> Se quantum dots. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 3973-8	16.4	53
100	Computational Studies of the Electronic Structures of Copper-Doped CdSe Nanocrystals: Oxidation States, Jahn-Teller Distortions, Vibronic Bandshapes, and Singlet-Triplet Splittings. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 5714-5723	3.8	52
99	Structural Diversity in Cesium Bismuth Halide Nanocrystals. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 4685-4697	9.6	49
98	Colloidal Nanocrystals of Wurtzite Zn <sub>1-x</sub> CoxO (0 ≤ x ≤ 1): Models of Spinodal Decomposition in an Oxide Diluted Magnetic Semiconductor. <i>Chemistry of Materials</i> , <b>2008</b> , 20, 7107-7116	9.6	49

97	Photocharging ZnO Nanocrystals: Picosecond Hole Capture, Electron Accumulation, and Auger Recombination. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 20633-20642	3.8	48
96	Effects of Surface Chemistry on the Photophysics of Colloidal InP Nanocrystals. <i>ACS Nano</i> , <b>2019</b> , 13, 14198-14207	11.5	47
95	Orbital pathways for Mn <sup>2+</sup> -carrier sp <sup>2</sup> exchange in diluted magnetic semiconductor quantum dots. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	47
94	Theoretical Characterization of Electronic Transitions in Co <sup>2+</sup> - and Mn <sup>2+</sup> -Doped ZnO Nanocrystals. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 8710-8717	3.8	45
93	Energetic pinning of magnetic impurity levels in quantum-confined semiconductors. <i>Nano Letters</i> , <b>2006</b> , 6, 2887-92	11.5	45
92	Dopant-carrier magnetic exchange coupling in colloidal inverted core/shell semiconductor nanocrystals. <i>Nano Letters</i> , <b>2009</b> , 9, 4376-82	11.5	44
91	Electrochemically controlled auger quenching of Mn <sup>2+</sup> photoluminescence in doped semiconductor nanocrystals. <i>ACS Nano</i> , <b>2011</b> , 5, 4158-68	16.7	43
90	Electron transfer between colloidal ZnO nanocrystals. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 4228-31	16.4	43
89	Picosecond Dynamics of Excitonic Magnetic Polarons in Colloidal Diffusion-Doped Cd(1-x)Mn(x)Se Quantum Dots. <i>ACS Nano</i> , <b>2015</b> , 9, 11177-91	16.7	42
88	Giant Excitonic Exchange Splittings at Zero Field in Single Colloidal CdSe Quantum Dots Doped with Individual Mn Impurities. <i>Nano Letters</i> , <b>2016</b> , 16, 6371-6377	11.5	42
87	Proton-Controlled Reduction of ZnO Nanocrystals: Effects of Molecular Reductants, Cations, and Thermodynamic Limitations. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 1377-85	16.4	42
86	Spin-on spintronics: ultrafast electron spin dynamics in ZnO and Zn <sub>1-x</sub> CoxO sol-gel films. <i>Nano Letters</i> , <b>2011</b> , 11, 3355-60	11.5	42
85	Quantum-cutting Yb <sup>3+</sup> -doped perovskite nanocrystals for monolithic bilayer luminescent solar concentrators. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 9279-9288	13	41
84	Photodoping and Transient Spectroscopies of Copper-Doped CdSe/CdS Nanocrystals. <i>ACS Nano</i> , <b>2018</b> , 12, 718-728	16.7	39
83	Redox Potentials of Colloidal n-Type ZnO Nanocrystals: Effects of Confinement, Electron Density, and Fermi-Level Pinning by Aldehyde Hydrogenation. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 11163-9	16.4	37
82	Tuning Equilibrium Compositions in Colloidal Cd <sub>1-x</sub> Mn <sub>x</sub> Se Nanocrystals Using Diffusion Doping and Cation Exchange. <i>ACS Nano</i> , <b>2016</b> , 10, 910-8	16.7	37
81	Absorption and Magnetic Circular Dichroism Analyses of Giant Zeeman Splittings in Diffusion-Doped Colloidal Cd(1-x)Mn(x)Se Quantum Dots. <i>Journal of Physical Chemistry Letters</i> , <b>2015</b> , 6, 3076-81	6.4	35
80	Luminescence Saturation via Mn <sup>2+</sup> -Exciton Cross Relaxation in Colloidal Doped Semiconductor Nanocrystals. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 9300-9310	3.8	35



79	One-Pot Synthesis of Monodisperse Colloidal Copper-Doped CdSe Nanocrystals Mediated by Ligand-Copper Interactions. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 7375-7384	9.6	35
78	Valence-Band Electronic Structures of Cu <sup>+</sup> -Doped ZnS, Alloyed Cu <sup>II</sup> ZnS, and Ternary CuInS <sub>2</sub> Nanocrystals: A Unified Description of Photoluminescence across Compositions. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 18124-18133	3.8	34
77	Spectroelectrochemical Measurement of Surface Electrostatic Contributions to Colloidal CdSe Nanocrystal Redox Potentials. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 7912-7918	9.6	33
76	Manipulating polar ferromagnetism in transition-metal-doped ZnO: Why manganese is different from cobalt (invited). <i>Journal of Applied Physics</i> , <b>2006</b> , 99, 08M112	2.5	32
75	Mid-gap electronic states in Zn <sub>1-x</sub> MnxO. <i>Physical Review B</i> , <b>2010</b> , 82,	3.3	31
74	Visible-light photoconductivity of Zn <sub>1-x</sub> CoxO and its dependence on Co <sup>2+</sup> concentration. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	30
73	Hyperfine Coupling in Colloidal n-Type ZnO Quantum Dots: Effects on Electron Spin Relaxation. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 14467-14472	3.8	30
72	The influence of dopants on the nucleation of semiconductor nanocrystals from homogeneous solution. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2005</b> , 5, 1472-9	1.3	30
71	Tunneling in the Delayed Luminescence of Colloidal CdSe, Cu <sup>+</sup> -Doped CdSe, and CuInS <sub>2</sub> Semiconductor Nanocrystals and Relationship to Blinking. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 27040-27049	3.8	29
70	Theoretical Characterization of Conduction-Band Electrons in Photodoped and Aluminum-Doped Zinc Oxide (AZO) Quantum Dots. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 26584-26590	3.8	29
69	Selenium Redox Reactivity on Colloidal CdSe Quantum Dot Surfaces. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 11105-8	16.4	29
68	Ferromagnetic excited-state Mn <sup>2+</sup> dimers in Zn <sub>1-x</sub> MnxSe quantum dots observed by time-resolved magnetophotoluminescence. <i>Physical Review B</i> , <b>2014</b> , 89,	3.3	28
67	Sub-band-gap photoconductivity in Co <sup>2+</sup> -doped ZnO. <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	28
66	Potentiometric Titrations for Measuring the Capacitance of Colloidal Photodoped ZnO Nanocrystals. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 10605-10	16.4	27
65	Detailed-balance analysis of Yb <sup>3+</sup> :CsPb(Cl <sub>1-x</sub> Br <sub>x</sub> ) <sub>3</sub> quantum-cutting layers for high-efficiency photovoltaics under real-world conditions. <i>Energy and Environmental Science</i> , <b>2019</b> , 12, 2486-2495	35.4	26
64	Kinetics of Isovalent (Cd) and Aliovalent (In) Cation Exchange in CdMnSe Nanocrystals. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 12885-12893	16.4	26
63	One-step synthesis of alloyed dual-emitting semiconductor nanocrystals. <i>Chemical Communications</i> , <b>2013</b> , 49, 39-41	5.8	25
62	Single-Source Vapor Deposition of Quantum-Cutting Yb <sup>3+</sup> :CsPb(Cl <sub>1-x</sub> Br <sub>x</sub> ) <sub>3</sub> and Other Complex Metal-Halide Perovskites. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 4560-4565	6.1	24

61	Photoluminescence Saturation in Quantum-Cutting Yb <sup>3+</sup> -Doped CsPb(Cl <sub>1-x</sub> Br <sub>x</sub> ) <sub>3</sub> Perovskite Nanocrystals: Implications for Solar Downconversion. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 12474-12484	3.8	24
60	Soluble Supercapacitors: Large and Reversible Charge Storage in Colloidal Iron-Doped ZnO Nanocrystals. <i>Nano Letters</i> , <b>2018</b> , 18, 3297-3302	11.5	24
59	Redox brightening of colloidal semiconductor nanocrystals using molecular reductants. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 16175-7	16.4	24
58	Copper Role in the Photoluminescence of AgCu InS Nanocrystals, from Copper-Doped AgInS (x ~ 0) to CuInS (x = 1). <i>Nano Letters</i> , <b>2019</b> , 19, 1318-1325	11.5	24
57	Potentiometric Measurements of Semiconductor Nanocrystal Redox Potentials. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 4310-3	16.4	23
56	Spinodal Decomposition During Anion Exchange in Colloidal Mn <sup>2+</sup> -Doped CsPbX <sub>3</sub> (X = Cl, Br) Perovskite Nanocrystals. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 7711-7722	9.6	23
55	Extremely Slow Spontaneous Electron Trapping in Photodoped n-Type CdSe Nanocrystals. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 3754-3762	9.6	22
54	Synthesis and Spectroscopy of Emissive, Surface-Modified, Copper-Doped Indium Phosphide Nanocrystals <b>2020</b> , 2, 576-581		22
53	Built-In Potential in Fe <sub>2</sub> O <sub>3</sub> -Cr <sub>2</sub> O <sub>3</sub> Superlattices for Improved Photoexcited Carrier Separation. <i>Advanced Materials</i> , <b>2016</b> , 28, 1616-22	24	22
52	Surface Contributions to Mn(2+) Spin Dynamics in Colloidal Doped Quantum Dots. <i>Journal of Physical Chemistry Letters</i> , <b>2015</b> , 6, 457-63	6.4	20
51	Copper-Coupled Electron Transfer in Colloidal Plasmonic Copper-Sulfide Nanocrystals Probed by in Situ Spectroelectrochemistry. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 3434-3442	16.4	20
50	Single Magnetic Impurities in Colloidal Quantum Dots and Magic-Size Clusters. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 8023-8036	9.6	20
49	Two-center formulation of Mn <sup>2+</sup> -electron s-d exchange coupling in bulk and quantum-confined diluted magnetic semiconductors. <i>Physical Review B</i> , <b>2010</b> , 82,	3.3	20
48	Activationless Multiple-Site Concerted Proton-Electron Tunneling. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 7449-7452	16.4	20
47	A Hybrid Quantum-Classical Model of Electrostatics in Multiply Charged Quantum Dots. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 26086-26095	3.8	19
46	Reaction Dynamics of Proton-Coupled Electron Transfer from Reduced ZnO Nanocrystals. <i>ACS Nano</i> , <b>2015</b> , 9, 10258-67	16.7	19
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30	Electrical Detection of Quantum Dot Hot Electrons Generated via a Mn-Enhanced Auger Process. <i>Journal of Physical Chemistry Letters</i> , <b>2017</b> , 8, 126-130	6.4	13
29	Theoretical Evaluation of Spin-Dependent Auger De-Excitation in Mn <sup>2+</sup> -Doped Semiconductor Nanocrystals. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 11223-11231	3.8	13
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22	Directed Exciton Magnetic Polaron Formation in a Single Colloidal Mn: CdSe/CdS Quantum Dot. <i>Nano Letters</i> , <b>2020</b> , 20, 1896-1906	11.5	8
21	Modeling Equilibrium Binding at Quantum Dot Surfaces Using Cyclic Voltammetry. <i>Nano Letters</i> , <b>2020</b> , 20, 2620-2624	11.5	7
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12	Hydrothermal Synthesis of Yb <sup>3+</sup> : LuLiF <sub>4</sub> Microcrystals and Laser Refrigeration of Yb <sup>3+</sup> : LuLiF <sub>4</sub> /Silicon-Nitride Composite Nanostructures. <i>Laser and Photonics Reviews</i> , <b>2021</b> , 15, 2100019	8.3	4
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