

Daniel R Gamelin

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/8564442/daniel-r-gamelin-publications-by-year.pdf>

Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

168
papers

12,857
citations

59
h-index

110
g-index

182
ext. papers

14,335
ext. citations

12.4
avg, IF

6.83
L-index

#	Paper	IF	Citations
168	Consensus statement: Standardized reporting of power-producing luminescent solar concentrator performance. <i>Joule</i> , 2022 , 6, 8-15	27.8	14
167	Universal machine learning framework for defect predictions in zinc blende semiconductors.. <i>Patterns</i> , 2022 , 3, 100450	5.1	4
166	Light-induced ferromagnetism in moiré superlattices.. <i>Nature</i> , 2022 , 604, 468-473	50.4	5
165	Organic building blocks at inorganic nanomaterial interfaces. <i>Materials Horizons</i> , 2021 ,	14.4	1
164	Spin-orbit-coupled exciton-polariton condensates in lead halide perovskites. <i>Science Advances</i> , 2021 , 7, eabj7667	14.3	1
163	Imaging Infrared Plasmon Hybridization in Doped Semiconductor Nanocrystal Dimers. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 10270-10276	6.4	2
162	Unraveling Strain Gradient Induced Electromechanical Coupling in Twisted Double Bilayer Graphene Moiré Superlattices. <i>Advanced Materials</i> , 2021 , 33, e2105879	24	7
161	Highly anisotropic excitons and multiple phonon bound states in a van der Waals antiferromagnetic insulator. <i>Nature Nanotechnology</i> , 2021 , 16, 655-660	28.7	18
160	Modular Zwitterion-Functionalized Poly(isopropyl methacrylate) Polymers for Hosting Luminescent Lead Halide Perovskite Nanocrystals. <i>Chemistry of Materials</i> , 2021 , 33, 3779-3790	9.6	7
159	State of the Art and Prospects for Halide Perovskite Nanocrystals. <i>ACS Nano</i> , 2021 , 15, 10775-10981	16.7	222
158	Hydrothermal Synthesis and Solid-State Laser Refrigeration of Ytterbium-Doped Potassium-Lutetium-Fluoride (KLF) Microcrystals. <i>Chemistry of Materials</i> , 2021 , 33, 4417-4424	9.6	4
157	Highly luminescent and catalytically active suprastructures of magic-sized semiconductor nanoclusters. <i>Nature Materials</i> , 2021 , 20, 650-657	27	17
156	Hydrothermal Synthesis of Yb ³⁺ : LuLiF ₄ Microcrystals and Laser Refrigeration of Yb ³⁺ : LuLiF ₄ /Silicon-Nitride Composite Nanostructures. <i>Laser and Photonics Reviews</i> , 2021 , 15, 2100019	8.3	4
155	Tunable Band-Edge Potentials and Charge Storage in Colloidal Tin-Doped Indium Oxide (ITO) Nanocrystals. <i>ACS Nano</i> , 2021 , 15, 14116-14124	16.7	4
154	The impact of 2H γ -I emission from Er ³⁺ ions on ratiometric optical temperature sensing with Yb ³⁺ /Er ³⁺ co-doped upconversion materials. <i>Journal of Luminescence</i> , 2021 , 236, 118006	3.8	5
153	Orientation of Individual Anisotropic Nanocrystals Identified by Polarization Fingerprint. <i>ACS Nano</i> , 2021 ,	16.7	2
152	Moiré Trions in MoSe ₂ /WSe ₂ heterobilayers. <i>Nature Nanotechnology</i> , 2021 , 16, 1208-1213	28.7	13

151	Modeling Equilibrium Binding at Quantum Dot Surfaces Using Cyclic Voltammetry. <i>Nano Letters</i> , 2020 , 20, 2620-2624	11.5	7
150	Two-Dimensional van der Waals Nanoplatelets with Robust Ferromagnetism. <i>Nano Letters</i> , 2020 , 20, 2100-2106	11.5	10
149	Synthesis and Spectroscopy of Emissive, Surface-Modified, Copper-Doped Indium Phosphide Nanocrystals 2020 , 2, 576-581		22
148	Yb ³⁺ speciation and energy-transfer dynamics in quantum-cutting Yb ³⁺ -doped CsPbCl ₃ perovskite nanocrystals and single crystals. <i>Physical Review Materials</i> , 2020 , 4,	3.2	12
147	Theoretical investigation of quantum confinement on the Rashba effect in ZnO semiconductor nanocrystals. <i>Journal of Chemical Physics</i> , 2020 , 152, 014308	3.9	3
146	Using Redox Titrations to Probe the Role of Trivalent Impurity Ions in the Ferromagnetism of Colloidal EuS Nanocrystals. <i>Chemistry of Materials</i> , 2020 , 32, 8633-8640	9.6	
145	Directed Exciton Magnetic Polaron Formation in a Single Colloidal Mn: CdSe/CdS Quantum Dot. <i>Nano Letters</i> , 2020 , 20, 1896-1906	11.5	8
144	Coherent Spin Precession and Lifetime-Limited Spin Dephasing in CsPbBr Perovskite Nanocrystals. <i>Nano Letters</i> , 2020 , 20, 8626-8633	11.5	13
143	Electron Beam Infrared Nano-Ellipsometry of Individual Indium Tin Oxide Nanocrystals. <i>Nano Letters</i> , 2020 , 20, 7987-7994	11.5	3
142	Insight into the Spin Properties in Undoped and Mn-Doped CdSe/CdS-Seeded Nanorods by Optically Detected Magnetic Resonance. <i>ACS Nano</i> , 2020 , 14, 13478-13490	16.7	4
141	Giant band splittings in EuS and EuSe magnetic semiconductor nanocrystals. <i>Chemical Communications</i> , 2020 , 56, 5843-5846	5.8	4
140	Anion Exchange and the Quantum-Cutting Energy Threshold in Ytterbium-Doped CsPb(ClBr) Perovskite Nanocrystals. <i>Nano Letters</i> , 2019 , 19, 1931-1937	11.5	74
139	Single-Source Vapor Deposition of Quantum-Cutting Yb ³⁺ :CsPb(Cl _{1-x} Br _x) ₃ and Other Complex Metal-Halide Perovskites. <i>ACS Applied Energy Materials</i> , 2019 , 2, 4560-4565	6.1	24
138	Structural Diversity in Cesium Bismuth Halide Nanocrystals. <i>Chemistry of Materials</i> , 2019 , 31, 4685-4697	9.6	49
137	Detailed-balance analysis of Yb ³⁺ :CsPb(Cl _{1-x} Br _x) ₃ quantum-cutting layers for high-efficiency photovoltaics under real-world conditions. <i>Energy and Environmental Science</i> , 2019 , 12, 2486-2495	35.4	26
136	Photoluminescence Saturation in Quantum-Cutting Yb ³⁺ -Doped CsPb(Cl _{1-x} Br _x) ₃ Perovskite Nanocrystals: Implications for Solar Downconversion. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 12474-12484	3.8	24
135	Quantum-cutting Yb ³⁺ -doped perovskite nanocrystals for monolithic bilayer luminescent solar concentrators. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 9279-9288	13	41
134	Spinodal Decomposition During Anion Exchange in Colloidal Mn ²⁺ -Doped CsPbX ₃ (X = Cl, Br) Perovskite Nanocrystals. <i>Chemistry of Materials</i> , 2019 , 31, 7711-7722	9.6	23

133	Effects of Surface Chemistry on the Photophysics of Colloidal InP Nanocrystals. <i>ACS Nano</i> , 2019 , 13, 14198-14207		
132	Copper Role in the Photoluminescence of AgCu InS Nanocrystals, from Copper-Doped AgInS ($x \sim 0$) to CuInS ($x = 1$). <i>Nano Letters</i> , 2019 , 19, 1318-1325	11.5	24
131	Copper-Coupled Electron Transfer in Colloidal Plasmonic Copper-Sulfide Nanocrystals Probed by in Situ Spectroelectrochemistry. <i>Journal of the American Chemical Society</i> , 2018 , 140, 3434-3442	16.4	20
130	Soluble Supercapacitors: Large and Reversible Charge Storage in Colloidal Iron-Doped ZnO Nanocrystals. <i>Nano Letters</i> , 2018 , 18, 3297-3302	11.5	24
129	Colloidal Nanocrystals of Lead-Free Double-Perovskite (Elpasolite) Semiconductors: Synthesis and Anion Exchange To Access New Materials. <i>Nano Letters</i> , 2018 , 18, 1118-1123	11.5	273
128	Photodoping and Transient Spectroscopies of Copper-Doped CdSe/CdS Nanocrystals. <i>ACS Nano</i> , 2018 , 12, 718-728	16.7	39
127	Anion Exchange in Cesium Lead Halide Perovskite Nanocrystals and Thin Films Using Trimethylsilyl Halide Reagents. <i>Chemistry of Materials</i> , 2018 , 30, 4887-4891	9.6	78
126	Valence-Band Electronic Structures of Cu ⁺ -Doped ZnS, Alloyed Cu _{1-x} Zn _x S, and Ternary CuInS ₂ Nanocrystals: A Unified Description of Photoluminescence across Compositions. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 18124-18133	3.8	34
125	Picosecond Quantum Cutting Generates Photoluminescence Quantum Yields Over 100% in Ytterbium-Doped CsPbCl Nanocrystals. <i>Nano Letters</i> , 2018 , 18, 3792-3799	11.5	200
124	Quantum-Cutting Ytterbium-Doped CsPb(Cl _{1-x} Br _x) ₃ Perovskite Thin Films with Photoluminescence Quantum Yields over 190%. <i>ACS Energy Letters</i> , 2018 , 3, 2390-2395	20.1	87
123	Activationless Multiple-Site Concerted Proton-Electron Tunneling. <i>Journal of the American Chemical Society</i> , 2018 , 140, 7449-7452	16.4	20
122	Degenerately n-Doped Colloidal PbSe Quantum Dots: Band Assignments and Electrostatic Effects. <i>Nano Letters</i> , 2018 , 18, 3893-3900	11.5	16
121	Analysis of Optical Losses in High-Efficiency CuInS ₂ -Based Nanocrystal Luminescent Solar Concentrators: Balancing Absorption versus Scattering. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 3252-3260	3.8	55
120	Cyclotron Splittings in the Plasmon Resonances of Electronically Doped Semiconductor Nanocrystals Probed by Magnetic Circular Dichroism Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 1831-1836	6.4	17
119	Mid-Gap States and Normal vs Inverted Bonding in Luminescent Cu ⁺ and Ag-Doped CdSe Nanocrystals. <i>Journal of the American Chemical Society</i> , 2017 , 139, 6411-6421	16.4	69
118	Excitonic Zeeman splittings in colloidal CdSe quantum dots doped with single magnetic impurities. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 5232-5238	7.1	13
117	Extremely Slow Spontaneous Electron Trapping in Photodoped n -Type CdSe Nanocrystals. <i>Chemistry of Materials</i> , 2017 , 29, 3754-3762	9.6	22
116	Electrical Detection of Quantum Dot Hot Electrons Generated via a Mn-Enhanced Auger Process. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 126-130	6.4	13

115	Enhanced Emission of Nanocrystal Solids Featuring Slowly Diffusive Excitons. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 1477-1487	3.8	17
114	A Hybrid Quantum-Classical Model of Electrostatics in Multiply Charged Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 26086-26095	3.8	19
113	Photoluminescence Temperature Dependence, Dynamics, and Quantum Efficiencies in Mn ²⁺ -Doped CsPbCl ₃ Perovskite Nanocrystals with Varied Dopant Concentration. <i>Chemistry of Materials</i> , 2017 , 29, 8003-8011	9.6	203
112	Electron Stability and Negative-Tetron Luminescence in Free-Standing Colloidal n-Type CdSe/CdS Quantum Dots. <i>ACS Nano</i> , 2017 , 11, 10430-10438	16.7	14
111	Single Magnetic Impurities in Colloidal Quantum Dots and Magic-Size Clusters. <i>Chemistry of Materials</i> , 2017 , 29, 8023-8036	9.6	20
110	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> , 2017 , 139, 11814-11824	16.4	61
109	Strong Dependence of Quantum-Dot Delayed Luminescence on Excitation Pulse Width. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 3997-4003	6.4	9
108	Current-Induced Magnetic Polarons in a Colloidal Quantum-Dot Device. <i>Nano Letters</i> , 2017 , 17, 4768-4773	11.5	17
107	Kinetic analysis of photoelectrochemical water oxidation by mesostructured Co-Pi/Fe ₂ O ₃ photoanodes. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 2986-2994	13	141
106	Giant Excitonic Exchange Splittings at Zero Field in Single Colloidal CdSe Quantum Dots Doped with Individual Mn Impurities. <i>Nano Letters</i> , 2016 , 16, 6371-6377	11.5	42
105	Potentiometric Titrations for Measuring the Capacitance of Colloidal Photodoped ZnO Nanocrystals. <i>Journal of the American Chemical Society</i> , 2016 , 138, 10605-10	16.4	27
104	Spectroelectrochemical Measurement of Surface Electrostatic Contributions to Colloidal CdSe Nanocrystal Redox Potentials. <i>Chemistry of Materials</i> , 2016 , 28, 7912-7918	9.6	33
103	Tunneling in the Delayed Luminescence of Colloidal CdSe, Cu ⁺ -Doped CdSe, and CuInS ₂ Semiconductor Nanocrystals and Relationship to Blinking. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 27040-27049	3.8	29
102	Built-In Potential in Fe ₂ O ₃ -Cr ₂ O ₃ Superlattices for Improved Photoexcited Carrier Separation. <i>Advanced Materials</i> , 2016 , 28, 1616-22	24	22
101	Tuning Equilibrium Compositions in Colloidal Cd _{1-x} Mn _x Se Nanocrystals Using Diffusion Doping and Cation Exchange. <i>ACS Nano</i> , 2016 , 10, 910-8	16.7	37
100	Potentiometric Measurements of Semiconductor Nanocrystal Redox Potentials. <i>Journal of the American Chemical Society</i> , 2016 , 138, 4310-3	16.4	23
99	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> , 2016 , 120, 5714-5723	3.8	52
98	Proton-Controlled Reduction of ZnO Nanocrystals: Effects of Molecular Reductants, Cations, and Thermodynamic Limitations. <i>Journal of the American Chemical Society</i> , 2016 , 138, 1377-85	16.4	42

97	Single-Particle Photoluminescence Spectra, Blinking, and Delayed Luminescence of Colloidal CuInS ₂ Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 17136-17142	3.8	62
96	Luminescent Colloidal Semiconductor Nanocrystals Containing Copper: Synthesis, Photophysics, and Applications. <i>Chemical Reviews</i> , 2016 , 116, 10820-51	68.1	223
95	Kinetics of Isovalent (Cd) and Aliovalent (In) Cation Exchange in CdMnSe Nanocrystals. <i>Journal of the American Chemical Society</i> , 2016 , 138, 12885-12893	16.4	26
94	One-Pot Synthesis of Monodisperse Colloidal Copper-Doped CdSe Nanocrystals Mediated by Ligand-Copper Interactions. <i>Chemistry of Materials</i> , 2016 , 28, 7375-7384	9.6	35
93	Selenium Redox Reactivity on Colloidal CdSe Quantum Dot Surfaces. <i>Journal of the American Chemical Society</i> , 2016 , 138, 11105-8	16.4	29
92	Surface Contributions to Mn(2+) Spin Dynamics in Colloidal Doped Quantum Dots. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 457-63	6.4	20
91	Electronic doping and redox-potential tuning in colloidal semiconductor nanocrystals. <i>Accounts of Chemical Research</i> , 2015 , 48, 1929-37	24.3	101
90	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> , 2015 , 6, 3076-81	6.4	35
89	Charge-State Control of Mn(2+) Spin Relaxation Dynamics in Colloidal n-Type Zn _{1-x} Mn _x O Nanocrystals. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 1748-53	6.4	15
88	Bright CuInS ₂ /CdS nanocrystal phosphors for high-gain full-spectrum luminescent solar concentrators. <i>Chemical Communications</i> , 2015 , 51, 9129-32	5.8	84
87	Singlet-Triplet Splittings in the Luminescent Excited States of Colloidal Cu(+):CdSe, Cu(+):InP, and CuInS ₂ Nanocrystals: Charge-Transfer Configurations and Self-Trapped Excitons. <i>Journal of the American Chemical Society</i> , 2015 , 137, 13138-47	16.4	150
86	Delayed Exciton Emission and Its Relation to Blinking in CdSe Quantum Dots. <i>Nano Letters</i> , 2015 , 15, 7718-25	11.5	113
85	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> , 2015 , 137, 11163-9	16.4	37
84	Reaction Dynamics of Proton-Coupled Electron Transfer from Reduced ZnO Nanocrystals. <i>ACS Nano</i> , 2015 , 9, 10258-67	16.7	19
83	Picosecond Dynamics of Excitonic Magnetic Polarons in Colloidal Diffusion-Doped Cd(1-x)Mn(x)Se Quantum Dots. <i>ACS Nano</i> , 2015 , 9, 11177-91	16.7	42
82	Mechanistic insights into solar water oxidation by cobalt-phosphate-modified Fe ₂ O ₃ photoanodes. <i>Energy and Environmental Science</i> , 2015 , 8, 577-584	35.4	149
81	Photoluminescence Blinking and Reversible Electron Trapping in Copper-Doped CdSe Nanocrystals. <i>Nano Letters</i> , 2015 , 15, 4045-51	11.5	84
80	Redox chemistries and plasmon energies of photodoped In ₂ O ₃ and Sn-doped In ₂ O ₃ (ITO) nanocrystals. <i>Journal of the American Chemical Society</i> , 2015 , 137, 518-24	16.4	107

79	Nanocrystals for luminescent solar concentrators. <i>Nano Letters</i> , 2015 , 15, 1315-23	11.5	217
78	Ultrafast spin dynamics in magnetic wide-bandgap semiconductors. <i>Physica Status Solidi (B): Basic Research</i> , 2014 , 251, 1685-1693	1.3	1
77	Size dependence of negative trion Auger recombination in photodoped CdSe nanocrystals. <i>Nano Letters</i> , 2014 , 14, 353-8	11.5	55
76	Charge-tunable quantum plasmons in colloidal semiconductor nanocrystals. <i>ACS Nano</i> , 2014 , 8, 1065-72	16.7	119
75	Photoluminescence in ZnO:Co ²⁺ (0.01%–1%) Nanoparticles, Nanowires, Thin Films, and Single Crystals as a Function of Pressure and Temperature: Exploring Electron-Phonon Interactions. <i>Chemistry of Materials</i> , 2014 , 26, 1100-1107	9.6	16
74	Theoretical Characterization of Conduction-Band Electrons in Photodoped and Aluminum-Doped Zinc Oxide (AZO) Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 26584-26590	3.8	29
73	Lanthanide-doped CaS and SrS luminescent nanocrystals: a single-source precursor approach for doping. <i>Journal of the American Chemical Society</i> , 2014 , 136, 16533-43	16.4	54
72	Effects of Crystallographic and Shape Anisotropies on Dopant-Carrier Exchange Interactions in Magnetic Semiconductor Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 7630-7636	3.8	11
71	Zero-reabsorption doped-nanocrystal luminescent solar concentrators. <i>ACS Nano</i> , 2014 , 8, 3461-7	16.7	248
70	Ferromagnetic excited-state Mn ²⁺ dimers in Zn _{1-x} Mn _x Se quantum dots observed by time-resolved magnetophotoluminescence. <i>Physical Review B</i> , 2014 , 89,	3.3	28
69	Valence-band mixing effects in the upper-excited-state magneto-optical responses of colloidal Mn ²⁺ -doped CdSe quantum dots. <i>ACS Nano</i> , 2014 , 8, 12669-75	16.7	16
68	Nb-Doped Colloidal TiO ₂ Nanocrystals with Tunable Infrared Absorption. <i>Chemistry of Materials</i> , 2013 , 25, 3383-3390	9.6	143
67	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> , 2013 , 135, 16569-77	16.4	101
66	Photochemical electronic doping of colloidal CdSe nanocrystals. <i>Journal of the American Chemical Society</i> , 2013 , 135, 18782-5	16.4	106
65	Nanocrystal diffusion doping. <i>Journal of the American Chemical Society</i> , 2013 , 135, 14380-9	16.4	129
64	Size-dependent trap-assisted Auger recombination in semiconductor nanocrystals. <i>Nano Letters</i> , 2013 , 13, 1810-5	11.5	75
63	Dual-Emitting Nanoscale Temperature Sensors. <i>Chemistry of Materials</i> , 2013 , 25, 1283-1292	9.6	322
62	One-step synthesis of alloyed dual-emitting semiconductor nanocrystals. <i>Chemical Communications</i> , 2013 , 49, 39-41	5.8	25

61	Effect of protons on the redox chemistry of colloidal zinc oxide nanocrystals. <i>Journal of the American Chemical Society</i> , 2013 , 135, 8492-5	16.4	56
60	Thermal Tuning and Inversion of Excitonic Zeeman Splittings in Colloidal Doped CdSe Quantum Dots. <i>Journal of Physical Chemistry Letters</i> , 2012 , 3, 1264-8	6.4	15
59	Photoluminescence brightening via electrochemical trap passivation in ZnSe and Mn(2+)-doped ZnSe quantum dots. <i>Journal of the American Chemical Society</i> , 2012 , 134, 6819-25	16.4	63
58	Luminescence Saturation via Mn ²⁺ Exciton Cross Relaxation in Colloidal Doped Semiconductor Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 9300-9310	3.8	35
57	Comparison of extra electrons in colloidal n-type Al(3+)-doped and photochemically reduced ZnO nanocrystals. <i>Chemical Communications</i> , 2012 , 48, 9352-4	5.8	63
56	Photocharging ZnO Nanocrystals: Picosecond Hole Capture, Electron Accumulation, and Auger Recombination. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 20633-20642	3.8	48
55	Redox brightening of colloidal semiconductor nanocrystals using molecular reductants. <i>Journal of the American Chemical Society</i> , 2012 , 134, 16175-7	16.4	24
54	Tuning the potentials of "extra" electrons in colloidal n-type ZnO nanocrystals via Mg ²⁺ substitution. <i>Journal of the American Chemical Society</i> , 2012 , 134, 7937-43	16.4	57
53	Theoretical Evaluation of Spin-Dependent Auger De-Excitation in Mn ²⁺ -Doped Semiconductor Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 11223-11231	3.8	13
52	Visible-light photoconductivity of Zn _{1-x} Co _x O and its dependence on Co ²⁺ concentration. <i>Physical Review B</i> , 2011 , 84,	3.3	30
51	Orbital pathways for Mn ²⁺ -carrier sp ² exchange in diluted magnetic semiconductor quantum dots. <i>Physical Review B</i> , 2011 , 84,	3.3	47
50	Water-soluble dual-emitting nanocrystals for ratiometric optical thermometry. <i>Journal of the American Chemical Society</i> , 2011 , 133, 14978-80	16.4	157
49	Electrochemically controlled auger quenching of Mn ²⁺ photoluminescence in doped semiconductor nanocrystals. <i>ACS Nano</i> , 2011 , 5, 4158-68	16.7	43
48	Electron transfer between colloidal ZnO nanocrystals. <i>Journal of the American Chemical Society</i> , 2011 , 133, 4228-31	16.4	43
47	Characterization of Excited-State Magnetic Exchange in Mn ²⁺ -Doped ZnO Quantum Dots Using Time-Dependent Density Functional Theory. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 20986-20991	3.8	15
46	Spin-on spintronics: ultrafast electron spin dynamics in ZnO and Zn _{1-x} Co _x O sol-gel films. <i>Nano Letters</i> , 2011 , 11, 3355-60	11.5	42
45	Quantum oscillations in magnetically doped colloidal nanocrystals. <i>Nature Nanotechnology</i> , 2011 , 6, 112-117	16.7	60
44	Photo-assisted electrodeposition of cobalt-phosphate (CoPi) catalyst on hematite photoanodes for solar water oxidation. <i>Energy and Environmental Science</i> , 2011 , 4, 1759	35.4	564

43	Excited-State Double Exchange in Manganese-Doped ZnO Quantum Dots: A Time-Dependent Density-Functional Study. <i>Journal of Physical Chemistry Letters</i> , 2010 , 1, 1927-1931	6.4	18
42	Tunable dual emission in doped semiconductor nanocrystals. <i>Nano Letters</i> , 2010 , 10, 3670-4	11.5	246
41	Mid-gap electronic states in Zn _{1-x} Mn _x O. <i>Physical Review B</i> , 2010 , 82,	3.3	31
40	Hyperfine Coupling in Colloidal n-Type ZnO Quantum Dots: Effects on Electron Spin Relaxation. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 14467-14472	3.8	30
39	Two-center formulation of Mn ²⁺ -electron s-d exchange coupling in bulk and quantum-confined diluted magnetic semiconductors. <i>Physical Review B</i> , 2010 , 82,	3.3	20
38	Sub-band-gap photoconductivity in Co ²⁺ -doped ZnO. <i>Physical Review B</i> , 2010 , 81,	3.3	28
37	Sputtering-induced CoO formation in x-ray photoelectron spectroscopy of nanocrystalline Zn _{1-x} Co _x O spinodal enrichment models. <i>Journal of Applied Physics</i> , 2010 , 107, 103917	2.5	7
36	Composite photoanodes for photoelectrochemical solar water splitting. <i>Energy and Environmental Science</i> , 2010 , 3, 1252	35.4	231
35	Colloidal Transition-Metal-Doped Quantum Dots 2010 , 397-453		63
34	Dopant-carrier magnetic exchange coupling in colloidal inverted core/shell semiconductor nanocrystals. <i>Nano Letters</i> , 2009 , 9, 4376-82	11.5	44
33	Charge-controlled magnetism in colloidal doped semiconductor nanocrystals. <i>Nature Nanotechnology</i> , 2009 , 4, 681-7	28.7	135
32	Light-induced spontaneous magnetization in doped colloidal quantum dots. <i>Science</i> , 2009 , 325, 973-6	33.3	268
31	Theoretical Characterization of Electronic Transitions in Co ²⁺ - and Mn ²⁺ -Doped ZnO Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 8710-8717	3.8	45
30	Colloidal Nanocrystals of Wurtzite Zn _{1-x} Co _x O (0 ≤ x ≤ 1): Models of Spinodal Decomposition in an Oxide Diluted Magnetic Semiconductor. <i>Chemistry of Materials</i> , 2008 , 20, 7107-7116	9.6	49
29	Investigation of pure and Co ²⁺ -doped ZnO quantum dot electronic structures using the density functional theory: choosing the right functional. <i>New Journal of Physics</i> , 2008 , 10, 055013	2.9	54
28	Electron Confinement Effects in the EPR Spectra of Colloidal n-Type ZnO Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 14331-14335	3.8	55
27	Mn ²⁺ -Doped CdSe Quantum Dots: New Inorganic Materials for Spin-Electronics and Spin-Photonics. <i>Advanced Functional Materials</i> , 2008 , 18, 3873-3891	15.6	353
26	Luminescence in colloidal Mn ²⁺ -doped semiconductor nanocrystals. <i>Journal of Solid State Chemistry</i> , 2008 , 181, 1582-1589	3.3	135

25	Exciton storage by Mn(2+) in colloidal Mn(2+)-doped CdSe quantum dots. <i>Nano Letters</i> , 2008 , 8, 2949-53	11.5	136
24	Spin-polarizable excitonic luminescence in colloidal Mn ²⁺ -doped CdSe quantum dots. <i>Nano Letters</i> , 2008 , 8, 1197-201	11.5	168
23	Inorganic cluster syntheses of TM ²⁺ -doped quantum dots (CdSe, CdS, CdSe/CdS): physical property dependence on dopant locale. <i>Journal of the American Chemical Society</i> , 2007 , 129, 9808-18	16.4	106
22	Direct Observation of sp-d exchange interactions in colloidal Mn ²⁺ - and Co ²⁺ -doped CdSe quantum dots. <i>Nano Letters</i> , 2007 , 7, 1037-43	11.5	187
21	Bimodal bond-length distributions in cobalt-doped CdSe, ZnSe, and Cd _{1-x} Zn _x Se quantum dots. <i>Journal of the American Chemical Society</i> , 2007 , 129, 3973-8	16.4	53
20	Room-temperature electron spin dynamics in free-standing ZnO quantum dots. <i>Physical Review Letters</i> , 2007 , 98, 186804	7.4	108
19	Manipulating polar ferromagnetism in transition-metal-doped ZnO: Why manganese is different from cobalt (invited). <i>Journal of Applied Physics</i> , 2006 , 99, 08M112	2.5	32
18	Giant excitonic Zeeman splittings in colloidal Co ²⁺ -doped ZnSe quantum dots. <i>Journal of the American Chemical Society</i> , 2006 , 128, 13195-203	16.4	82
17	Energetic pinning of magnetic impurity levels in quantum-confined semiconductors. <i>Nano Letters</i> , 2006 , 6, 2887-92	11.5	45
16	Stable photogenerated carriers in magnetic semiconductor nanocrystals. <i>Journal of the American Chemical Society</i> , 2006 , 128, 3910-1	16.4	90
15	Direct kinetic correlation of carriers and ferromagnetism in Co ²⁺ : ZnO. <i>Physical Review Letters</i> , 2006 , 97, 037203	7.4	267
14	Electronic structure origins of polarity-dependent high-TC ferromagnetism in oxide-diluted magnetic semiconductors. <i>Nature Materials</i> , 2006 , 5, 291-7	27	450
13	Spectroscopy of photovoltaic and photoconductive nanocrystalline Co ²⁺ -doped ZnO electrodes. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 14486-95	3.4	73
12	Doped Semiconductor Nanocrystals: Synthesis, Characterization, Physical Properties, and Applications. <i>Progress in Inorganic Chemistry</i> , 2005 , 47-126		244
11	The influence of dopants on the nucleation of semiconductor nanocrystals from homogeneous solution. <i>Journal of Nanoscience and Nanotechnology</i> , 2005 , 5, 1472-9	1.3	30
10	Synthesis of colloidal Mn ²⁺ :ZnO quantum dots and high-TC ferromagnetic nanocrystalline thin films. <i>Journal of the American Chemical Society</i> , 2004 , 126, 9387-98	16.4	369
9	High-temperature ferromagnetism in Ni ²⁺ -doped ZnO aggregates prepared from colloidal diluted magnetic semiconductor quantum dots. <i>Physical Review Letters</i> , 2003 , 91, 157202	7.4	392
8	Magnetic quantum dots: synthesis, spectroscopy, and magnetism of Co ²⁺ - and Ni ²⁺ -doped ZnO nanocrystals. <i>Journal of the American Chemical Society</i> , 2003 , 125, 13205-18	16.4	575

7	Colloidal transition-metal-doped ZnO quantum dots. <i>Journal of the American Chemical Society</i> , 2002 , 124, 15192-3	16.4	170
6	Excited-State Exchange Coupling in Bent Mn(III)–Mn(III) Complexes: Dominance of the π Superexchange Pathway and Its Possible Contributions to the Reactivities of Binuclear Metalloproteins. <i>Journal of the American Chemical Society</i> , 2000 , 122, 8511-8523	16.4	63
5	Spectroscopic Characterization of an Engineered Purple CuA Center in Azurin. <i>Inorganic Chemistry</i> , 1998 , 37, 191-198	5.1	59
4	Spectroscopy of Mixed-Valence CuA-Type Centers: Ligand-Field Control of Ground-State Properties Related to Electron Transfer. <i>Journal of the American Chemical Society</i> , 1998 , 120, 5246-5263	16.4	170
3	Excited-State Distortions and Electron Delocalization in Mixed-Valence Dimers: Vibronic Analysis of the Near-IR Absorption and Resonance Raman Profiles of $[\text{Fe}_2(\text{OH})_3(\text{tmtacn})_2]^{2+}$. <i>Inorganic Chemistry</i> , 1996 , 35, 4323-4335	5.1	73
2	Excited-State Contributions to Ground-State Properties of Mixed-Valence Dimers: Spectral and Electronic-Structural Studies of $[\text{Fe}_2(\text{OH})_3(\text{tmtacn})_2]^{2+}$ Related to the $[\text{Fe}_2\text{S}_2]^+$ Active Sites of Plant-Type Ferredoxins. <i>Journal of the American Chemical Society</i> , 1996 , 118, 8085-8097	16.4	147
1	Uncovering the Influence of Ni ²⁺ Doping in Lead-Halide Perovskite Nanocrystals Using Optically Detected Magnetic Resonance Spectroscopy. <i>Chemistry of Materials</i> ,	9.6	1