

Christopher B Murray

List of Publications by Year in descending order

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241
papers

30,782
citations

6592

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4535

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docs citations

245
times ranked

32391
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamical Change of Valence States and Structure in NiCu ₃ Nanoparticles during Redox Cycling. <i>Journal of Physical Chemistry C</i> , 2022, 126, 1991-2002.	1.5	14
2	Tunable Plasmonic Microcapsules with Embedded Noble Metal Nanoparticles for Optical Microsensing. <i>ACS Applied Nano Materials</i> , 2022, 5, 2828-2838.	2.4	5
3	Electrochemically deposited molybdenum disulfide surfaces enable polymer adsorption studies using quartz crystal microbalance with dissipation monitoring (QCM-D). <i>Journal of Colloid and Interface Science</i> , 2022, 614, 522-531.	5.0	2
4	<i>In Situ</i> EXAFS-Based Nanothermometry of Heterodimer Nanocrystals under Induction Heating. <i>Journal of Physical Chemistry C</i> , 2022, 126, 3623-3634.	1.5	11
5	Evaporation-Driven Coassembly of Hierarchical, Multicomponent Networks. <i>ACS Nano</i> , 2022, 16, 4508-4516.	7.3	6
6	Monodisperse Nanocrystal Superparticles through a Source-Sink Emulsion System. <i>Chemistry of Materials</i> , 2022, 34, 2779-2789.	3.2	9
7	Effect of Graft Length and Matrix Molecular Weight on String Assembly of Aligned Nanoplates in a Lamellar Diblock Copolymer. <i>Macromolecules</i> , 2022, 55, 3166-3175.	2.2	2
8	Synthesis and Characterization of Core-Shell Cu-Ru, Cu-Rh, and Cu-Ir Nanoparticles. <i>Journal of the American Chemical Society</i> , 2022, 144, 7919-7928.	6.6	13
9	Dynamic magnetic field alignment and polarized emission of semiconductor nanoplatelets in a liquid crystal polymer. <i>Nature Communications</i> , 2022, 13, 2507.	5.8	12
10	Nanocrystal Superparticles with Whispering-Gallery Modes Tunable through Chemical and Optical Triggers. <i>Nano Letters</i> , 2022, 22, 4765-4773.	4.5	7
11	Binary icosahedral clusters of hard spheres in spherical confinement. <i>Nature Physics</i> , 2021, 17, 128-134.	6.5	42
12	Rare-Earth Sulfide Nanocrystals from Wet Colloidal Synthesis: Tunable Compositions, Size-Dependent Light Absorption, and Sensitized Rare-Earth Luminescence. <i>Journal of the American Chemical Society</i> , 2021, 143, 3300-3305.	6.6	31
13	Enhanced Carrier Transport in Strongly Coupled, Epitaxially Fused CdSe Nanocrystal Solids. <i>Nano Letters</i> , 2021, 21, 3318-3324.	4.5	17
14	Broadband Circular Polarizers via Coupling in 3D Plasmonic Meta-Atom Arrays. <i>ACS Photonics</i> , 2021, 8, 1286-1292.	3.2	9
15	Quantitative 3D real-space analysis of Laves phase supraparticles. <i>Nature Communications</i> , 2021, 12, 3980.	5.8	12
16	Anisotropic nanocrystal shape and ligand design for co-assembly. <i>Science Advances</i> , 2021, 7, .	4.7	19
17	Impurities in Nanocrystal Thin-Film Transistors Fabricated by Cation Exchange. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 6514-6518.	2.1	4
18	Grafted Nanoparticle Surface Wetting during Phase Separation in Polymer Nanocomposite Films. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 37628-37637.	4.0	12

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19	Gaussian processes for autonomous data acquisition at large-scale synchrotron and neutron facilities. <i>Nature Reviews Physics</i> , 2021, 3, 685-697.	11.9	44
20	Effect of Ni particle size on the production of renewable methane from CO ₂ over Ni/CeO ₂ catalyst. <i>Journal of Energy Chemistry</i> , 2021, 61, 602-611.	7.1	51
21	Distinguishing Electron and Hole Dynamics in Functionalized CdSe/CdS Core/Shell Quantum Dots Using Complementary Ultrafast Spectroscopies and Kinetic Modeling. <i>Journal of Physical Chemistry C</i> , 2021, 125, 31-41.	1.5	10
22	Structural and Valence State Modification of Cobalt in CoPt Nanocatalysts in Redox Conditions. <i>ACS Nano</i> , 2021, 15, 20619-20632.	7.3	17
23	Chemo- and Thermomechanically Configurable 3D Optical Metamaterials Constructed from Colloidal Nanocrystal Assemblies. <i>ACS Nano</i> , 2020, 14, 1427-1435.	7.3	20
24	Engineering the composition of bimetallic nanocrystals to improve hydrodeoxygenation selectivity for 2-acetylfuran. <i>Applied Catalysis A: General</i> , 2020, 606, 117808.	2.2	2
25	Electron accepting naphthalene bisimide ligand architectures for modulation of π - π stacking in nanocrystal hybrid materials. <i>Nanoscale Horizons</i> , 2020, 5, 1509-1514.	4.1	3
26	Simultaneous Photonic and Excitonic Coupling in Spherical Quantum Dot Supercrystals. <i>ACS Nano</i> , 2020, 14, 13806-13815.	7.3	22
27	Nanorod position and orientation in vertical cylinder block copolymer films. <i>Soft Matter</i> , 2020, 16, 3005-3014.	1.2	9
28	Unusual Dinitrogen Binding and Electron Storage in Dinuclear Iron Complexes. <i>Journal of the American Chemical Society</i> , 2020, 142, 8147-8159.	6.6	24
29	Nanoparticle diffusion during gelation of tetra poly(ethylene glycol) provides insight into nanoscale structural evolution. <i>Soft Matter</i> , 2020, 16, 2256-2265.	1.2	12
30	Efficient photoluminescence of isotropic rare-earth oxychloride nanocrystals from a solvothermal route. <i>Chemical Communications</i> , 2020, 56, 3429-3432.	2.2	9
31	Plasmonic Elastic Capsules as Colorimetric Reversible pH Microsensors. <i>Small</i> , 2020, 16, 1903897.	5.2	7
32	Favoring the Growth of High-Quality, Three-Dimensional Supercrystals of Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2020, 124, 11256-11264.	1.5	21
33	Emergence of complexity in hierarchically organized chiral particles. <i>Science</i> , 2020, 368, 642-648.	6.0	179
34	Cluster-mining: an approach for determining core structures of metallic nanoparticles from atomic pair distribution function data. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2020, 76, 24-31.	0.0	34
35	Tuning the Electrocatalytic Oxygen Reduction Reaction Activity of Pt-Co Nanocrystals by Cobalt Concentration with Atomic-Scale Understanding. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 26789-26797.	4.0	40
36	Phase Behavior of Grafted Polymer Nanocomposites from Field-Based Simulations. <i>Macromolecules</i> , 2019, 52, 5110-5121.	2.2	22

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37	General Synthetic Route to High-Quality Colloidal III-V Semiconductor Quantum Dots Based on Pnictogen Chlorides. <i>Journal of the American Chemical Society</i> , 2019, 141, 15145-15152.	6.6	54
38	Generalized Synthetic Strategy for Transition-Metal-Doped Brookite-Phase TiO ₂ Nanorods. <i>Journal of the American Chemical Society</i> , 2019, 141, 16548-16552.	6.6	78
39	Air-Stable CuInSe ₂ Nanocrystal Transistors and Circuits via Post-Deposition Cation Exchange. <i>ACS Nano</i> , 2019, 13, 2324-2333.	7.3	24
40	Nanocrystal Core Size and Shape Substitutional Doping and Underlying Crystalline Order in Nanocrystal Superlattices. <i>ACS Nano</i> , 2019, 13, 5712-5719.	7.3	30
41	The Influence of Surface Platinum Deposits on the Photocatalytic Activity of Anatase TiO ₂ Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2019, 123, 10477-10486.	1.5	7
42	Experiments and Simulations Probing Local Domain Bulge and String Assembly of Aligned Nanoplates in a Lamellar Diblock Copolymer. <i>Macromolecules</i> , 2019, 52, 8989-8999.	2.2	14
43	Dendrimer Ligand Directed Nanoplate Assembly. <i>ACS Nano</i> , 2019, 13, 14241-14251.	7.3	22
44	Plasmonic Optical and Chiroptical Response of Self-Assembled Au Nanorod Equilateral Trimers. <i>ACS Nano</i> , 2019, 13, 1617-1624.	7.3	75
45	Bimetallic synergy in cobalt-palladium nanocatalysts for CO oxidation. <i>Nature Catalysis</i> , 2019, 2, 78-85.	16.1	195
46	A Study of Tetrahydrofurfuryl Alcohol to 1,5-Pentanediol Over Pt-WO _x /C. <i>Catalysis Letters</i> , 2018, 148, 1047-1054.	1.4	49
47	3D Nanofabrication via Chemo-Mechanical Transformation of Nanocrystal/Bulk Heterostructures. <i>Advanced Materials</i> , 2018, 30, e1800233.	11.1	15
48	A comparison of furfural hydrodeoxygenation over Pt-Co and Ni-Fe catalysts at high and low H ₂ pressures. <i>Catalysis Today</i> , 2018, 302, 73-79.	2.2	66
49	Morphological Dependence of the Thermal and Photochemical Reactions of Acetaldehyde on Anatase TiO ₂ Nanocrystals. <i>Topics in Catalysis</i> , 2018, 61, 365-378.	1.3	5
50	Spectroscopic characterization of a highly selective NiCu ₃ /C hydrodeoxygenation catalyst. <i>Catalysis Science and Technology</i> , 2018, 8, 6100-6108.	2.1	9
51	Alignment of Nanoplates in Lamellar Diblock Copolymer Domains and the Effect of Particle Volume Fraction on Phase Behavior. <i>ACS Macro Letters</i> , 2018, 7, 1400-1407.	2.3	24
52	Favorable Core/Shell Interface within Co ₂ P/Pt Nanorods for Oxygen Reduction Electrocatalysis. <i>Nano Letters</i> , 2018, 18, 7870-7875.	4.5	68
53	Thermal and Photocatalytic Reactions of Methanol and Acetaldehyde on Pt-Modified Brookite TiO ₂ Nanorods. <i>ACS Catalysis</i> , 2018, 8, 11834-11846.	5.5	23
54	Improved Models for Metallic Nanoparticle Cores from Atomic Pair Distribution Function (PDF) Analysis. <i>Journal of Physical Chemistry C</i> , 2018, 122, 29498-29506.	1.5	41

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55	Nanoimprinted Chiral Plasmonic Substrates with Three-Dimensional Nanostructures. <i>Nano Letters</i> , 2018, 18, 7389-7394.	4.5	36
56	Improved Chemical and Colloidal Stability of Gold Nanoparticles through Dendron Capping. <i>Langmuir</i> , 2018, 34, 13333-13338.	1.6	21
57	Photocatalytic Hydrogen Evolution from Substoichiometric Colloidal WO ₃ Nanowires. <i>ACS Energy Letters</i> , 2018, 3, 1904-1910.	8.8	145
58	A Characterization Study of Reactive Sites in ALD-Synthesized WO _x /ZrO ₂ Catalysts. <i>Catalysts</i> , 2018, 8, 292.	1.6	21
59	Charge Transport Modulation in PbSe Nanocrystal Solids by Au _x Ag _{1-x} Nanoparticle Doping. <i>ACS Nano</i> , 2018, 12, 9091-9100.	7.3	20
60	Interplay between spherical confinement and particle shape on the self-assembly of rounded cubes. <i>Nature Communications</i> , 2018, 9, 2228.	5.8	81
61	Hierarchical Materials Design by Pattern Transfer Printing of Self-Assembled Binary Nanocrystal Superlattices. <i>Nano Letters</i> , 2017, 17, 1387-1394.	4.5	40
62	Directional Carrier Transfer in Strongly Coupled Binary Nanocrystal Superlattice Films Formed by Assembly and <i>in Situ</i> Ligand Exchange at a Liquid-Air Interface. <i>Journal of Physical Chemistry C</i> , 2017, 121, 4146-4157.	1.5	19
63	Engineering Localized Surface Plasmon Interactions in Gold by Silicon Nanowire for Enhanced Heating and Photocatalysis. <i>Nano Letters</i> , 2017, 17, 1839-1845.	4.5	50
64	Plasmon Resonances in Self-Assembled Two-Dimensional Au Nanocrystal Metamolecules. <i>ACS Nano</i> , 2017, 11, 2917-2927.	7.3	78
65	Thermal and Photochemical Reactions of Methanol, Acetaldehyde, and Acetic Acid on Brookite TiO ₂ Nanorods. <i>Journal of Physical Chemistry C</i> , 2017, 121, 11488-11498.	1.5	17
66	A semi-combinatorial approach for investigating polycatenar ligand-controlled synthesis of rare-earth fluoride nanocrystals. <i>Nanoscale</i> , 2017, 9, 8107-8112.	2.8	5
67	Angular measurements of the dynein ring reveal a stepping mechanism dependent on a flexible stalk. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E4564-E4573.	3.3	35
68	Unraveling the surface state and composition of highly selective nanocrystalline Ni-Cu alloy catalysts for hydrodeoxygenation of HMF. <i>Catalysis Science and Technology</i> , 2017, 7, 1735-1743.	2.1	82
69	The dendritic effect and magnetic permeability in dendron coated nickel and manganese zinc ferrite nanoparticles. <i>Nanoscale</i> , 2017, 9, 13922-13928.	2.8	9
70	Plasmonic-Based Mechanochromic Microcapsules as Strain Sensors. <i>Small</i> , 2017, 13, 1701925.	5.2	25
71	Anisotropic Cracking of Nanocrystal Superlattices. <i>Nano Letters</i> , 2017, 17, 6501-6506.	4.5	18
72	Design, Self-Assembly, and Switchable Wettability in Hydrophobic, Hydrophilic, and Janus Dendritic Ligand-Gold Nanoparticle Hybrid Materials. <i>Chemistry of Materials</i> , 2017, 29, 8737-8746.	3.2	40

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73	Nanorod Mobility Influences Polymer Diffusion in Polymer Nanocomposites. ACS Macro Letters, 2017, 6, 869-874.	2.3	10
74	Preparation and Self-Assembly of Dendronized Janus Fe ₃ O ₄ @Pt and Fe ₃ O ₄ @Au Heterodimers. ACS Nano, 2017, 11, 7958-7966.	7.3	46
75	Rapid Large-Scale Assembly and Pattern Transfer of One-Dimensional Gold Nanorod Superstructures. ACS Applied Materials & Interfaces, 2017, 9, 25513-25521.	4.0	27
76	High-strength magnetically switchable plasmonic nanorods assembled from a binary nanocrystal mixture. Nature Nanotechnology, 2017, 12, 228-232.	15.6	75
77	Quasicrystalline nanocrystal superlattice with partial matching rules. Nature Materials, 2017, 16, 214-219.	13.3	114
78	Engineering uniform nanocrystals: Mechanism of formation and self-assembly into bimetallic nanocrystal superlattices. AIChE Journal, 2016, 62, 392-398.	1.8	20
79	Visualizing non-equilibrium lithiation of spinel oxide via in situ transmission electron microscopy. Nature Communications, 2016, 7, 11441.	5.8	162
80	Alternate current magnetic property characterization of nonstoichiometric zinc ferrite nanocrystals for inductor fabrication via a solution based process. Journal of Applied Physics, 2016, 119, .	1.1	13
81	One-step green synthesis of gold and silver nanoparticles with ascorbic acid and their versatile surface post-functionalization. RSC Advances, 2016, 6, 33092-33100.	1.7	141
82	Engineering titania nanostructure to tune and improve its photocatalytic activity. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 3966-3971.	3.3	106
83	Nanocrystal Size-Dependent Efficiency of Quantum Dot Sensitized Solar Cells in the Strongly Coupled CdSe Nanocrystals/TiO ₂ System. ACS Applied Materials & Interfaces, 2016, 8, 14692-14700.	4.0	66
84	Mechanisms for High Selectivity in the Hydrodeoxygenation of 5-Hydroxymethylfurfural over PtCo Nanocrystals. ACS Catalysis, 2016, 6, 4095-4104.	5.5	124
85	Exploiting the colloidal nanocrystal library to construct electronic devices. Science, 2016, 352, 205-208.	6.0	234
86	Revealing particle growth mechanisms by combining high-surface-area catalysts made with monodisperse particles and electron microscopy conducted at atmospheric pressure. Journal of Catalysis, 2016, 337, 240-247.	3.1	36
87	Statistical Description of CdSe/CdS Dot-in-Rod Heterostructures Using Scanning Transmission Electron Microscopy. Chemistry of Materials, 2016, 28, 3345-3351.	3.2	17
88	Advanced Architecture for Colloidal PbS Quantum Dot Solar Cells Exploiting a CdSe Quantum Dot Buffer Layer. ACS Nano, 2016, 10, 9267-9273.	7.3	69
89	Polycatenar Ligand Control of the Synthesis and Self-Assembly of Colloidal Nanocrystals. Journal of the American Chemical Society, 2016, 138, 10508-10515.	6.6	22
90	Shape-dependence of the thermal and photochemical reactions of methanol on nanocrystalline anatase TiO ₂ . Surface Science, 2016, 654, 1-7.	0.8	24

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91	Protein-directed self-assembly of a fullerene crystal. Nature Communications, 2016, 7, 11429.	5.8	55
92	Ultrafast Photoluminescence from the Core and the Shell in CdSe/CdS Dot-in-Rod Heterostructures. ChemPhysChem, 2016, 17, 759-765.	1.0	22
93	Dendronization-induced phase-transfer, stabilization and self-assembly of large colloidal Au nanoparticles. Nanoscale, 2016, 8, 13192-13198.	2.8	17
94	Base metal-Pt alloys: A general route to high selectivity and stability in the production of biofuels from HMF. Applied Catalysis B: Environmental, 2016, 199, 439-446.	10.8	100
95	NeutrAvidin Functionalization of CdSe/CdS Quantum Nanorods and Quantification of Biotin Binding Sites using Biotin-4-Fluorescein Fluorescence Quenching. Bioconjugate Chemistry, 2016, 27, 562-568.	1.8	15
96	The H ₂ Pressure Dependence of Hydrodeoxygenation Selectivities for Furfural Over Pt/C Catalysts. Catalysis Letters, 2016, 146, 711-717.	1.4	54
97	Synthesis and Size-Selective Precipitation of Monodisperse Nonstoichiometric M _x Fe _{3-2x} O ₄ (M = Mn, Co) Nanocrystals and Their DC and AC Magnetic Properties. Chemistry of Materials, 2016, 28, 480-489.	3.2	42
98	Coherent Acoustic Phonons in Colloidal Semiconductor Nanocrystal Superlattices. ACS Nano, 2016, 10, 1163-1169.	7.3	52
99	The effects of inorganic surface treatments on photogenerated carrier mobility and lifetime in PbSe quantum dot thin films. Chemical Physics, 2016, 471, 81-88.	0.9	18
100	In-situ Study of Coarsening Mechanisms of Supported Metal Particles in Reducing Gas. Microscopy and Microanalysis, 2015, 21, 643-644.	0.2	0
101	A comparison of hierarchical Pt@CeO ₂ /SiO ₂ -Al ₂ O ₃ and Pd@CeO ₂ /SiO ₂ -Al ₂ O ₃ . Catalysis Today, 2015, 253, 137-141.	2.2	7
102	Synergistic Oxygen Evolving Activity of a TiO ₂ -Rich Reconstructed SrTiO ₃ (001) Surface. Journal of the American Chemical Society, 2015, 137, 2939-2947.	6.6	58
103	Ultrafast Electron Trapping in Ligand-Exchanged Quantum Dot Assemblies. ACS Nano, 2015, 9, 1440-1447.	7.3	15
104	Lifetime, Mobility, and Diffusion of Photoexcited Carriers in Ligand-Exchanged Lead Selenide Nanocrystal Films Measured by Time-Resolved Terahertz Spectroscopy. ACS Nano, 2015, 9, 1820-1828.	7.3	61
105	Prospects of Nanoscience with Nanocrystals. ACS Nano, 2015, 9, 1012-1057.	7.3	1,005
106	Large-Area Nanoimprinted Colloidal Au Nanocrystal-Based Nanoantennas for Ultrathin Polarizing Plasmonic Metasurfaces. Nano Letters, 2015, 15, 5254-5260.	4.5	73
107	Synthesis and X-ray Characterization of Cobalt Phosphide (Co ₂ P) Nanorods for the Oxygen Reduction Reaction. ACS Nano, 2015, 9, 8108-8115.	7.3	132
108	Thermal and photochemical reactions of methanol on nanocrystalline anatase TiO ₂ thin films. Physical Chemistry Chemical Physics, 2015, 17, 17190-17201.	1.3	24

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109	Selective p- and n-Doping of Colloidal PbSe Nanowires To Construct Electronic and Optoelectronic Devices. <i>ACS Nano</i> , 2015, 9, 7536-7544.	7.3	32
110	Structure determination and modeling of monoclinic trioctylphosphine oxide. <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2015, 71, 239-241.	0.2	14
111	Binary and Ternary Superlattices Self-Assembled from Colloidal Nanodisks and Nanorods. <i>Journal of the American Chemical Society</i> , 2015, 137, 6662-6669.	6.6	110
112	Efficient Removal of Organic Ligands from Supported Nanocrystals by Fast Thermal Annealing Enables Catalytic Studies on Well-Defined Active Phases. <i>Journal of the American Chemical Society</i> , 2015, 137, 6906-6911.	6.6	208
113	Characterization of Shape and Monodispersity of Anisotropic Nanocrystals through Atomistic X-ray Scattering Simulation. <i>Chemistry of Materials</i> , 2015, 27, 2502-2506.	3.2	26
114	Deposition of Wafer-Scale Single-Component and Binary Nanocrystal Superlattice Thin Films Via Dip-Coating. <i>Advanced Materials</i> , 2015, 27, 2846-2851.	11.1	52
115	Smectic Nanorod Superlattices Assembled on Liquid Subphases: Structure, Orientation, Defects, and Optical Polarization. <i>Chemistry of Materials</i> , 2015, 27, 2998-3008.	3.2	69
116	Flexible, High-Speed CdSe Nanocrystal Integrated Circuits. <i>Nano Letters</i> , 2015, 15, 7155-7160.	4.5	52
117	Increased Carrier Mobility and Lifetime in CdSe Quantum Dot Thin Films through Surface Trap Passivation and Doping. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 4605-4609.	2.1	47
118	Uniform Bimetallic Nanocrystals by High-Temperature Seed-Mediated Colloidal Synthesis and Their Catalytic Properties for Semiconducting Nanowire Growth. <i>Chemistry of Materials</i> , 2015, 27, 5833-5838.	3.2	27
119	Shape-Controlled Synthesis of Isotopic Yttrium-90-Labeled Rare Earth Fluoride Nanocrystals for Multimodal Imaging. <i>ACS Nano</i> , 2015, 9, 8718-8728.	7.3	41
120	Dendron-Mediated Engineering of Interparticle Separation and Self-Assembly in Dendronized Gold Nanoparticles Superlattices. <i>Journal of the American Chemical Society</i> , 2015, 137, 10728-10734.	6.6	51
121	Spectrally-Resolved Dielectric Functions of Solution-Cast Quantum Dot Thin Films. <i>Chemistry of Materials</i> , 2015, 27, 6463-6469.	3.2	31
122	Fast Nanorod Diffusion through Entangled Polymer Melts. <i>ACS Macro Letters</i> , 2015, 4, 952-956.	2.3	39
123	Probing the Structure, Composition, and Spatial Distribution of Ligands on Gold Nanorods. <i>Nano Letters</i> , 2015, 15, 5730-5738.	4.5	46
124	Substitutional doping in nanocrystal superlattices. <i>Nature</i> , 2015, 524, 450-453.	18.7	174
125	Comparison of HMF hydrodeoxygenation over different metal catalysts in a continuous flow reactor. <i>Applied Catalysis A: General</i> , 2015, 508, 86-93.	2.2	68
126	Quantifying "Softness" of Organic Coatings on Gold Nanoparticles Using Correlated Small-Angle X-ray and Neutron Scattering. <i>Nano Letters</i> , 2015, 15, 8008-8012.	4.5	47

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127	Charge transport in strongly coupled quantum dot solids. <i>Nature Nanotechnology</i> , 2015, 10, 1013-1026.	15.6	473
128	X-ray Mapping of Nanoparticle Superlattice Thin Films. <i>ACS Nano</i> , 2014, 8, 12843-12850.	7.3	19
129	Doubling the Efficiency of Third Harmonic Generation by Positioning ITO Nanocrystals into the Hot-Spot of Plasmonic Gap-Antennas. <i>Nano Letters</i> , 2014, 14, 2867-2872.	4.5	155
130	Air-Stable, Nanostructured Electronic and Plasmonic Materials from Solution-Processable, Silver Nanocrystal Building Blocks. <i>ACS Nano</i> , 2014, 8, 2746-2754.	7.3	40
131	Tunable Optical Anisotropy of Seeded CdSe/CdS Nanorods. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 85-91.	2.1	49
132	Effects of Post-Synthesis Processing on CdSe Nanocrystals and Their Solids: Correlation between Surface Chemistry and Optoelectronic Properties. <i>Journal of Physical Chemistry C</i> , 2014, 118, 27097-27105.	1.5	33
133	Enhanced Energy Transfer in Quasi-Quaternary Nanocrystal Superlattices. <i>Advanced Materials</i> , 2014, 26, 2419-2423.	11.1	26
134	Au@TiO ₂ Core-Shell Nanostructures with High Thermal Stability. <i>Catalysis Letters</i> , 2014, 144, 1939-1945.	1.4	14
135	Engineering Charge Injection and Charge Transport for High Performance PbSe Nanocrystal Thin Film Devices and Circuits. <i>Nano Letters</i> , 2014, 14, 6210-6216.	4.5	100
136	Monodisperse Core/Shell Ni/FePt Nanoparticles and Their Conversion to Ni/Pt to Catalyze Oxygen Reduction. <i>Journal of the American Chemical Society</i> , 2014, 136, 15921-15924.	6.6	165
137	Size- and Composition-Dependent Radio Frequency Magnetic Permeability of Iron Oxide Nanocrystals. <i>ACS Nano</i> , 2014, 8, 12323-12337.	7.3	44
138	Supported platinum-zinc oxide core-shell nanoparticle catalysts for methanol steam reforming. <i>Journal of Materials Chemistry A</i> , 2014, 2, 19509-19514.	5.2	31
139	Ligand Coupling Symmetry Correlates with Thermopower Enhancement in Small-Molecule/Nanocrystal Hybrid Materials. <i>ACS Nano</i> , 2014, 8, 10528-10536.	7.3	19
140	Gold nanorod length controls dispersion, local ordering, and optical absorption in polymer nanocomposite films. <i>Soft Matter</i> , 2014, 10, 3404-3413.	1.2	28
141	Bulk Metallic Glass-like Scattering Signal in Small Metallic Nanoparticles. <i>ACS Nano</i> , 2014, 8, 6163-6170.	7.3	26
142	Nanodisco Balls: Control over Surface versus Core Loading of Diagnostically Active Nanocrystals into Polymer Nanoparticles. <i>ACS Nano</i> , 2014, 8, 9143-9153.	7.3	40
143	Synthesis of N-Type Plasmonic Oxide Nanocrystals and the Optical and Electrical Characterization of their Transparent Conducting Films. <i>Chemistry of Materials</i> , 2014, 26, 4579-4588.	3.2	46
144	Low-Frequency (1/f) Noise in Nanocrystal Field-Effect Transistors. <i>ACS Nano</i> , 2014, 8, 9664-9672.	7.3	55

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145	Gold Nanorod Translocations and Charge Measurement through Solid-State Nanopores. <i>Nano Letters</i> , 2014, 14, 5358-5364.	4.5	59
146	Gate-Induced Carrier Delocalization in Quantum Dot Field Effect Transistors. <i>Nano Letters</i> , 2014, 14, 5948-5952.	4.5	25
147	Mineralizer-Assisted Shape-Control of Rare Earth Oxide Nanoplates. <i>Chemistry of Materials</i> , 2014, 26, 6328-6332.	3.2	31
148	Plasmon-Enhanced Upconversion Luminescence in Single Nanophosphorâ€“Nanorod Heterodimers Formed through Template-Assisted Self-Assembly. <i>ACS Nano</i> , 2014, 8, 9482-9491.	7.3	127
149	Enhanced Charge Transfer Kinetics of CdSe Quantum Dot-Sensitized Solar Cell by Inorganic Ligand Exchange Treatments. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 3721-3728.	4.0	86
150	Designing High-Performance PbS and PbSe Nanocrystal Electronic Devices through Stepwise, Post-Synthesis, Colloidal Atomic Layer Deposition. <i>Nano Letters</i> , 2014, 14, 1559-1566.	4.5	176
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