

# Andrey L Rogach

## List of Publications by Year in descending order

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545  
papers

56,217  
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616

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576  
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576  
docs citations

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times ranked

42955  
citing authors

#	ARTICLE	IF	CITATIONS
1	Encapsulation of selenium in MOF-derived N,O-codoped porous flower-like carbon host for Na-Se batteries. <i>Chemical Engineering Journal</i> , 2022, 430, 132737.	12.7	13
2	White Light Afterglow in Carbon Dots Achieved via Synergy between the Room-Temperature Phosphorescence and the Delayed Fluorescence. <i>Small</i> , 2022, 18, e2105415.	10.0	44
3	Co-Doping of Cerium and Bismuth into Lead-Free Double Perovskite Cs <sub>2</sub> AgInCl <sub>6</sub> Nanocrystals Results in Improved Photoluminescence Efficiency. <i>ACS Nanoscience Au</i> , 2022, 2, 93-101.	4.8	24
4	Carbon Dots with an Emission in the Near Infrared Produced from Organic Dyes in Porous Silica Microsphere Templates. <i>Nanomaterials</i> , 2022, 12, 543.	4.1	12
5	Monodisperse CuInS <sub>2</sub> /CdS and CuInZnS <sub>2</sub> /CdS Core-Shell Nanorods with a Strong Near-Infrared Emission. <i>Advanced Optical Materials</i> , 2022, 10, .	7.3	11
6	Tanks and Truth. <i>ACS Nano</i> , 2022, 16, 4975-4976.	14.6	0
7	Chiral carbon dots: synthesis, optical properties, and emerging applications. <i>Light: Science and Applications</i> , 2022, 11, 75.	16.6	105
8	Water-Stable CsPbBr <sub>3</sub> /Cs <sub>4</sub> PbBr <sub>6</sub> Nanocrystals with a Mixed Fluoropolymer Shell for Optical Temperature Sensing. <i>ACS Applied Nano Materials</i> , 2022, 5, 5025-5034.	5.0	8
9	Proton Transfer-Driven Modification of 3D Hybrid Perovskites to Form Oriented 2D Ruddlesden-Popper Phases. <i>Small Science</i> , 2022, 2, .	9.9	6
10	Excitonic versus Free-Carrier Contributions to the Nonlinearly Excited Photoluminescence in CsPbBr <sub>3</sub> Perovskites. <i>ACS Photonics</i> , 2022, 9, 179-189.	6.6	11
11	Regeneration of spent cathodes of Li-ion batteries into multifunctional electrodes for overall water splitting and rechargeable Zn-air batteries by ultrafast carbothermal shock. <i>Science China Materials</i> , 2022, 65, 2393-2400.	6.3	6
12	Revealing the nature of optical activity in carbon dots produced from different chiral precursor molecules. <i>Light: Science and Applications</i> , 2022, 11, 92.	16.6	33
13	Bis-ammonium salts with strong chemisorption to halide ions for fast and durable aqueous redox Zn ion batteries. <i>Nano Energy</i> , 2022, 98, 107278.	16.0	17
14	Surface Stabilization of Colloidal Perovskite Nanocrystals via Multi-amine Chelating Ligands. <i>ACS Energy Letters</i> , 2022, 7, 1963-1970.	17.4	34
15	Semiconductor Nanocrystals Emitting in the Second Near-Infrared Window: Optical Properties and Application in Biomedical Imaging. <i>Advanced Optical Materials</i> , 2022, 10, .	7.3	16
16	Amine-Terminated Carbon Dots Linking Hole Transport Layer and Vertically Oriented Quasi-2D Perovskites through Hydrogen Bonds Enable Efficient LEDs. <i>ACS Nano</i> , 2022, 16, 9679-9690.	14.6	41
17	Dual-functional hosts derived from metal-organic frameworks reduce dissolution of polyselenides and inhibit dendrite growth in a sodium-selenium battery. <i>Energy Storage Materials</i> , 2022, 51, 249-258.	18.0	22
18	Template synthesis of silver indium sulfide based nanocrystals performed through cation exchange in organic and aqueous media. <i>Nano Research</i> , 2021, 14, 2321.	10.4	12

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19	Sensitizing Full-Spectrum Lanthanide Luminescence within a Semiconductor CaZnOS Host. <i>Advanced Photonics Research</i> , 2021, 2, 2000089.	3.6	13
20	Size-selective synthesis of platinum nanoparticles on transition-metal dichalcogenides for the hydrogen evolution reaction. <i>Chemical Communications</i> , 2021, 57, 2879-2882.	4.1	51
21	Multidentate Ligand Polyethylenimine Enables Bright Color-Saturated Blue Light-Emitting Diodes Based on CsPbBr <sub>3</sub> Nanoplatelets. <i>ACS Energy Letters</i> , 2021, 6, 477-484.	17.4	65
22	Carbon Nanoparticles as Versatile Auxiliary Components of Perovskite-Based Optoelectronic Devices. <i>Advanced Functional Materials</i> , 2021, 31, 2010768.	14.9	31
23	Smoothing the energy transfer pathway in quasi-2D perovskite films using methanesulfonate leads to highly efficient light-emitting devices. <i>Nature Communications</i> , 2021, 12, 1246.	12.8	274
24	Applications of Carbon Dots in Optoelectronics. <i>Nanomaterials</i> , 2021, 11, 364.	4.1	51
25	Stability of Quantum Dot Solar Cells: A Matter of (Life)Time. <i>Advanced Energy Materials</i> , 2021, 11, 2003457.	19.5	57
26	Towards next generation white LEDs: optics-electronics synergistic effect in a single-layer heterophase halide perovskite. <i>Light: Science and Applications</i> , 2021, 10, 46.	16.6	25
27	Optical processes in carbon nanocolloids. <i>CheM</i> , 2021, 7, 606-628.	11.7	73
28	Induction of Wurtzite to Zinc-Blende Phase Transformation in ZnSe Nanorods During Cu(I) Cation Exchange. <i>Chemistry of Materials</i> , 2021, 33, 2398-2407.	6.7	7
29	Carbon Dots Detect Water-to-Ice Phase Transition and Act as Alcohol Sensors <i>via</i> Fluorescence Turn-Off/On Mechanism. <i>ACS Nano</i> , 2021, 15, 6582-6593.	14.6	34
30	MOF-Derived CoS <sub>2</sub> /N-Doped Carbon Composite to Induce Short-Chain Sulfur Molecule Generation for Enhanced Sodium-Sulfur Battery Performance. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 18010-18020.	8.0	48
31	Phase-Dependent Shell Growth and Optical Properties of ZnSe/ZnS Core/Shell Nanorods. <i>Chemistry of Materials</i> , 2021, 33, 3413-3427.	6.7	12
32	Enhanced Photoluminescence of Halide Perovskite Nanocrystals Mediated by a Higher-Order Topological Metasurface. <i>Journal of Physical Chemistry C</i> , 2021, 125, 9884-9890.	3.1	9
33	Strongly Luminescent Dion-Jacobson Tin Bromide Perovskite Microcrystals Induced by Molecular Proton Donors Chloroform and Dichloromethane. <i>Advanced Functional Materials</i> , 2021, 31, 2102182.	14.9	24
34	Correction to Temperature Controlled Fragmentation and Ripening: Synthesis of ZnSe Nanorods with Variable Dimensions and Crystal Structure Starting from Ultrathin ZnSe Nanowires. <i>Chemistry of Materials</i> , 2021, 33, 4247-4247.	6.7	1
35	State of the Art and Prospects for Halide Perovskite Nanocrystals. <i>ACS Nano</i> , 2021, 15, 10775-10981.	14.6	705
36	Generating Short-Chain Sulfur Suitable for Efficient Sodium-Sulfur Batteries via Atomic Copper Sites on a N,O-Codoped Carbon Composite. <i>Advanced Energy Materials</i> , 2021, 11, 2100989.	19.5	55

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37	A self-indicating cellulose-based gel with tunable performance for bioactive agent delivery. <i>Journal of Drug Delivery Science and Technology</i> , 2021, 63, 102428.	3.0	44
38	Composite Nanospheres Comprising Luminescent Carbon Dots Incorporated into a Polyhedral Oligomeric Silsesquioxane Matrix. <i>Journal of Physical Chemistry C</i> , 2021, 125, 15094-15102.	3.1	4
39	Bright and Stable Dion-Jacobson Tin Bromide Perovskite Microcrystals Realized by Primary Alcohol Dopants. <i>Chemistry of Materials</i> , 2021, 33, 5413-5421.	6.7	15
40	Continuous Flow Synthesis of Persistent Luminescent Chromium-Doped Zinc Gallate Nanoparticles. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 7067-7075.	4.6	8
41	Optical Properties of Carbon Dots in the Deep-Red to Near-Infrared Region Are Attractive for Biomedical Applications. <i>Small</i> , 2021, 17, e2102325.	10.0	93
42	Highly Luminescent and Stable 2D/3D Octadecylammonium/Formamidinium Lead Bromide Perovskite Films. <i>Journal of Physical Chemistry C</i> , 2021, 125, 17501-17508.	3.1	1
43	Encapsulating Cobalt Nanoparticles in Interconnected N-Doped Hollow Carbon Nanofibers with Enriched Co <sub>1/2</sub> Ni <sub>1/2</sub> C Moiety for Enhanced Oxygen Electrocatalysis in Zn-Air Batteries. <i>Advanced Science</i> , 2021, 8, e2101438.	11.2	104
44	Aggregation-induced emission of copper nanoclusters. <i>Aggregate</i> , 2021, 2, e112.	9.9	40
45	Uncovering the Role of Trioctylphosphine on Colloidal and Emission Stability of Sb-Alloyed Cs <sub>2</sub> Nal <sub>6</sub> Double Perovskite Nanocrystals. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 47845-47859.	8.0	24
46	The influence of thermal treatment conditions (solvothermal versus microwave) and solvent polarity on the morphology and emission of phloroglucinol-based nitrogen-doped carbon dots. <i>Nanoscale</i> , 2021, 13, 3070-3078.	5.6	22
47	Chiral carbon dots based on L-cysteine produced via room temperature surface modification and one-pot carbonization. <i>Nanoscale</i> , 2021, 13, 8058-8066.	5.6	31
48	Enhanced Near-Infrared Emission from Carbon Dots by Surface Deprotonation. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 604-611.	4.6	34
49	Morphology Control of Luminescent Carbon Nanomaterials: From Dots to Rolls and Belts. <i>ACS Nano</i> , 2021, 15, 1579-1586.	14.6	35
50	Multiexcitonic Emission in Zero-Dimensional Cs <sub>2</sub> ZrCl <sub>6</sub> :Sb <sup>3+</sup> Perovskite Crystals. <i>Journal of the American Chemical Society</i> , 2021, 143, 17599-17606.	13.7	131
51	Room Temperature Fabrication of Stable, Strongly Luminescent Dion-Jacobson Tin Bromide Perovskite Microcrystals Achieved through Use of Primary Alcohols. <i>Nanomaterials</i> , 2021, 11, 2738.	4.1	9
52	Metal Halide Perovskites as Emerging Thermoelectric Materials. <i>ACS Energy Letters</i> , 2021, 6, 3882-3905.	17.4	40
53	A Flexible Plasmonic-Membrane-Enhanced Broadband Tin-Based Perovskite Photodetector. <i>Nano Letters</i> , 2021, 21, 9195-9202.	9.1	21
54	Semitransparent visualizers of infrared lasers based on perovskite quantum dots. <i>Journal of Physics: Conference Series</i> , 2021, 2015, 012112.	0.4	0

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55	Twist-to-Untwist Evolution and Cation Polarization Behavior of Hybrid Halide Perovskite Nanoplatelets Revealed by Cryogenic Transmission Electron Microscopy. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 12187-12195.	4.6	4
56	Clusterization-triggered emission: Uncommon luminescence from common materials. <i>Materials Today</i> , 2020, 32, 275-292.	14.2	407
57	Advances in metal halide perovskite nanocrystals: Synthetic strategies, growth mechanisms, and optoelectronic applications. <i>Materials Today</i> , 2020, 32, 204-221.	14.2	114
58	Two-Step Oxidation Synthesis of Sulfur with a Red Aggregation-Induced Emission. <i>Angewandte Chemie</i> , 2020, 132, 10083-10088.	2.0	8
59	Two-Step Oxidation Synthesis of Sulfur with a Red Aggregation-Induced Emission. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 9997-10002.	13.8	57
60	Influence of the solvent environment on luminescent centers within carbon dots. <i>Nanoscale</i> , 2020, 12, 602-609.	5.6	47
61	Microwave-assisted <i>in situ</i> large scale synthesis of a carbon dots@g-C <sub>3</sub> N <sub>4</sub> composite phosphor for white light-emitting devices. <i>Materials Chemistry Frontiers</i> , 2020, 4, 517-523.	5.9	34
62	A copper nanocluster incorporated nanogel: Confinement-assisted emission enhancement for zinc ion detection in living cells. <i>Sensors and Actuators B: Chemical</i> , 2020, 307, 127626.	7.8	33
63	Metal Halide Perovskite Nanorods: Shape Matters. <i>Advanced Materials</i> , 2020, 32, e2002736.	21.0	48
64	Carbon Dot-Based Composite Films for Simultaneously Harvesting Raindrop Energy and Boosting Solar Energy Conversion Efficiency in Hybrid Cells. <i>ACS Nano</i> , 2020, 14, 10359-10369.	14.6	47
65	Emission Quenching and Recovery of Illuminated Perovskite Quantum Dots Due to Iodide Ion Migration. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 6168-6175.	4.6	11
66	Hierarchical CoS <sub>2</sub> /N-Doped Carbon@MoS <sub>2</sub> Nanosheets with Enhanced Sodium Storage Performance. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 54644-54652.	8.0	53
67	Photoelectrochemical Performance Enhancement of ZnSe Nanorods versus Dots: Combined Experimental and Computational Insights. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 10414-10420.	4.6	5
68	Broad-Band Photodetectors Based on Copper Indium Diselenide Quantum Dots in a Methylammonium Lead Iodide Perovskite Matrix. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 35201-35210.	8.0	21
69	Growth of Multinary Copper-Based Sulfide Shells on CuInSe <sub>2</sub> Nanocrystals for Significant Improvement of Their Near-Infrared Emission. <i>Chemistry of Materials</i> , 2020, 32, 7842-7849.	6.7	15
70	Molecular Design of Layer-by-Layer Functionalized Liposomes for Oral Drug Delivery. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 43341-43351.	8.0	34
71	Perovskite Quantum Dots with Atomic Crystal Shells for Light-Emitting Diodes with Low Efficiency Roll-Off. <i>ACS Energy Letters</i> , 2020, 5, 2927-2934.	17.4	55
72	Phase-Controlled Growth of CuInS <sub>2</sub> Shells to Realize Colloidal CuInSe <sub>2</sub> /CuInS <sub>2</sub> Core/Shell Nanostructures. <i>ACS Nano</i> , 2020, 14, 11799-11808.	14.6	16

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73	Toward Bright Red-Emissive Carbon Dots through Controlling Interaction among Surface Emission Centers. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 8121-8127.	4.6	34
74	Wide-range emitting carbon dots synthesized from O-phenylenediamine by microwave-assisted method. <i>AIP Conference Proceedings</i> , 2020, , .	0.4	1
75	Solution Processed Hybrid Polymer: HgTe Quantum Dot Phototransistor with High Sensitivity and Fast Infrared Response up to 2400Ånm at Room Temperature. <i>Advanced Science</i> , 2020, 7, 2000068.	11.2	52
76	Covalent Encapsulation of Sulfur in a MOFâ€Derived S, Nâ€Doped Porous Carbon Host Realized via the Vaporâ€Infiltration Method Results in Enhanced Sodiumâ€Sulfur Battery Performance. <i>Advanced Energy Materials</i> , 2020, 10, 2000931.	19.5	118
77	A co-crystallization induced surface modification strategy with cyanuric acid modulates the bandgap emission of carbon dots. <i>Nanoscale</i> , 2020, 12, 10987-10993.	5.6	46
78	Lattice Distortion in Mixed-Anion Lead Halide Perovskite Nanorods Leads to their High Fluorescence Anisotropy. , 2020, 2, 814-820.		33
79	Strongly Luminescent Composites Based on Carbon Dots Embedded in a Nanoporous Silicate Glass. <i>Nanomaterials</i> , 2020, 10, 1063.	4.1	15
80	Atomic Sulfur Passivation Improves the Photoelectrochemical Performance of ZnSe Nanorods. <i>Nanomaterials</i> , 2020, 10, 1081.	4.1	5
81	Cdâ€Rich Alloyed CsPb <sub>1-x</sub> Cd <sub>x</sub> Br <sub>3</sub> Perovskite Nanorods with Tunable Blue Emission and Fermi Levels Fabricated through Crystal Phase Engineering. <i>Advanced Science</i> , 2020, 7, 2000930.	11.2	52
82	Bright CsPbI <sub>3</sub> Perovskite Quantum Dot Light-Emitting Diodes with Top-Emitting Structure and a Low Efficiency Roll-Off Realized by Applying Zirconium Acetylacetonate Surface Modification. <i>Nano Letters</i> , 2020, 20, 2829-2836.	9.1	137
83	Composite Films of CsPbBr <sub>3</sub> Perovskite Nanocrystals in a Hydrophobic Fluoropolymer for Temperature Imaging in Digital Microfluidics. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 19805-19812.	8.0	23
84	Metalâ€Organic Framework Derived CoS <sub>2</sub> Wrapped with Nitrogen-Doped Carbon for Enhanced Lithium/Sodium Storage Performance. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 12809-12820.	8.0	82
85	Water-resistant perovskite nanodots enable robust two-photon lasing in aqueous environment. <i>Nature Communications</i> , 2020, 11, 1192.	12.8	123
86	CsPbI <sub>3</sub> /PbSe Heterostructured Nanocrystals for High-Efficiency Solar Cells. <i>ACS Energy Letters</i> , 2020, 5, 2401-2410.	17.4	77
87	Tailoring spontaneous infrared emission of HgTe quantum dots with laser-printed plasmonic arrays. <i>Light: Science and Applications</i> , 2020, 9, 16.	16.6	45
88	Strongly Emissive Leadâ€Free OD Cs <sub>3</sub> Cu <sub>2</sub> I <sub>5</sub> Perovskites Synthesized by a Room Temperature Solvent Evaporation Crystallization for Downâ€Conversion Lightâ€Emitting Devices and Fluorescent Inks. <i>Advanced Optical Materials</i> , 2020, 8, 1901723.	7.3	109
89	Energy Level Modification with Carbon Dot Interlayers Enables Efficient Perovskite Solar Cells and Quantum Dot Based Lightâ€Emitting Diodes. <i>Advanced Functional Materials</i> , 2020, 30, 1910530.	14.9	72
90	A carbon dot-based tandem luminescent solar concentrator. <i>Nanoscale</i> , 2020, 12, 6664-6672.	5.6	75

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91	Development of Copper Nanoclusters for In Vitro and In Vivo Theranostic Applications. <i>Advanced Materials</i> , 2020, 32, e1906872.	21.0	88
92	Synthesis of Anisotropic ZnSe Nanorods with Zinc Blende Crystal Structure. <i>Angewandte Chemie</i> , 2020, 132, 5423-5429.	2.0	2
93	Synthesis of Anisotropic ZnSe Nanorods with Zinc Blende Crystal Structure. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 5385-5391.	13.8	12
94	Stable Luminescent Composite Microspheres Based on Porous Silica with Embedded CsPbBr <sub>3</sub> Perovskite Nanocrystals. <i>ChemNanoMat</i> , 2020, 6, 1080-1085.	2.8	12
95	Anodes and Sodium-Free Cathodes in Sodium Ion Batteries. <i>Advanced Energy Materials</i> , 2020, 10, 2000288.	19.5	89
96	Influence of heteroatoms on optical properties and photoluminescence kinetics of carbon dots. <i>Journal of Physics: Conference Series</i> , 2020, 1461, 012008.	0.4	0
97	Development of Synthetic Methods to Grow Long-Wavelength Infrared-Emitting HgTe Quantum Dots in Dimethylformamide. <i>Chemistry of Materials</i> , 2020, 32, 3930-3943.	6.7	17
98	Temperature-Controlled Fragmentation and Ripening: Synthesis of ZnSe Nanorods with Variable Dimensions and Crystal Structure Starting from Ultrathin ZnSe Nanowires. <i>Chemistry of Materials</i> , 2020, 32, 3960-3969.	6.7	13
99	Tunable Mie Resonances of Tin-based Iodide Perovskite Islandlike Films with Enhanced Infrared Photoluminescence. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 3332-3338.	4.6	8
100	Growing Contributions of Nano in 2020. <i>ACS Nano</i> , 2020, 14, 16163-16164.	14.6	1
101	Amino Functionalization of Carbon Dots Leads to Red Emission Enhancement. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 5111-5116.	4.6	66
102	sp <sup>2</sup> -sp <sup>3</sup> -Hybridized Atomic Domains Determine Optical Features of Carbon Dots. <i>ACS Nano</i> , 2019, 13, 10737-10744.	14.6	136
103	Spontaneous Crystallization of Perovskite Nanocrystals in Nonpolar Organic Solvents: A Versatile Approach for their Shape-Controlled Synthesis. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 16558-16562.	13.8	96
104	Spontane Kristallisation von Perowskit-Nanokristallen in unpolaren organischen Lösungsmitteln: Ein vielseitiges Konzept für deren morphologiekontrollierende Synthese. <i>Angewandte Chemie</i> , 2019, 131, 16710-16715.	2.0	5
105	Stable, Strongly Emitting Cesium Lead Bromide Perovskite Nanorods with High Optical Gain Enabled by an Intermediate Monomer Reservoir Synthetic Strategy. <i>Nano Letters</i> , 2019, 19, 6315-6322.	9.1	101
106	Using Polar Alcohols for the Direct Synthesis of Cesium Lead Halide Perovskite Nanorods with Anisotropic Emission. <i>ACS Nano</i> , 2019, 13, 8237-8245.	14.6	84
107	On-Off switching of the phosphorescence signal in a carbon dot/polyvinyl alcohol composite for multiple data encryption. <i>Nanoscale</i> , 2019, 11, 14250-14255.	5.6	51
108	Deep-Red/Near-Infrared Electroluminescence from Single-Component Charge-Transfer Complex via Thermally Activated Delayed Fluorescence Channel. <i>Advanced Functional Materials</i> , 2019, 29, 1903112.	14.9	59

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109	Oxalic Acid Enabled Emission Enhancement and Continuous Extraction of Chloride from Cesium Lead Chloride/Bromide Perovskite Nanocrystals. <i>Small</i> , 2019, 15, e1901828.	10.0	24
110	Identification of Molecular Fluorophore as a Component of Carbon Dots able to Induce Gelation in a Fluorescent Multivalent-Metal-Ion-Free Alginate Hydrogel. <i>Scientific Reports</i> , 2019, 9, 15080.	3.3	7
111	Luminescent Down-Conversion Semiconductor Quantum Dots and Aligned Quantum Rods for Liquid Crystal Displays. <i>Advanced Science</i> , 2019, 6, 1901345.	11.2	83
112	Thermally Activated Upconversion Near-Infrared Photoluminescence from Carbon Dots Synthesized via Microwave Assisted Exfoliation. <i>Small</i> , 2019, 15, e1905050.	10.0	70
113	P&#116; Synthesis of CsPbBr <sub>3</sub> Nanorods with Tuneable Optical Anisotropy for Optoelectronic Applications. <i>Digest of Technical Papers SID International Symposium</i> , 2019, 50, 949-952.	0.3	0
114	Charge-Transfer Complexes: Deep-Red/Near-Infrared Electroluminescence from Single-Component Charge-Transfer Complex via Thermally Activated Delayed Fluorescence Channel ( <i>Adv. Funct. Mater.</i> ) Tj ETQq0 0 4gBT /Overlock 10 T	0.3	0
115	Formulation of a Composite System of Liquid Crystals and Light-Emitting Semiconductor Quantum Rods: From Assemblies in Solution to Photoaligned Films. <i>Advanced Materials Technologies</i> , 2019, 4, 1900695.	5.8	13
116	Nano as a Rosetta Stone: The Global Roles and Opportunities for Nanoscience and Nanotechnology. <i>ACS Nano</i> , 2019, 13, 10853-10855.	14.6	16
117	Integrated Plasmonic Infrared Photodetector Based on Colloidal HgTe Quantum Dots. <i>Advanced Materials Technologies</i> , 2019, 4, 1900354.	5.8	36
118	Chemically Synthesized Carbon Nanorods with Dual Polarized Emission. <i>ACS Nano</i> , 2019, 13, 12024-12031.	14.6	31
119	Carbon dots produced <i>via</i> space-confined vacuum heating: maintaining efficient luminescence in both dispersed and aggregated states. <i>Nanoscale Horizons</i> , 2019, 4, 388-395.	8.0	82
120	Direct conversion of metal-organic frameworks into selenium/selenide/carbon composites with high sodium storage capacity. <i>Nano Energy</i> , 2019, 58, 392-398.	16.0	70
121	Polypyrrole and Carbon Nanotube Co-Composited Titania Anodes with Enhanced Sodium Storage Performance in Ether-Based Electrolyte. <i>Advanced Sustainable Systems</i> , 2019, 3, 1800154.	5.3	5
122	Rare earth-free composites of carbon dots/metal-organic frameworks as white light emitting phosphors. <i>Journal of Materials Chemistry C</i> , 2019, 7, 2207-2211.	5.5	68
123	Ultraviolet-pumped white light emissive carbon dot based phosphors for light-emitting devices and visible light communication. <i>Nanoscale</i> , 2019, 11, 3489-3494.	5.6	61
124	The Future of Layer-by-Layer Assembly: A Tribute to <i>ACS Nano</i> Associate Editor Helmuth M&#246;hwald. <i>ACS Nano</i> , 2019, 13, 6151-6169.	14.6	211
125	Redefining the Experimental and Methods Sections. <i>ACS Nano</i> , 2019, 13, 4862-4864.	14.6	16
126	A specific electrochemiluminescence sensor for selective and ultra-sensitive mercury( <i>sc</i> ) detection based on dithiothreitol functionalized copper nanocluster/carbon nitride nanocomposites. <i>Analyst</i> , 2019, 144, 4425-4431.	3.5	20



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127	Realization of the Photostable Intrinsic Core Emission from Carbon Dots through Surface Deoxidation by Ultraviolet Irradiation. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 3094-3100.	4.6	50
128	Spontaneous Self-Assembly of Cesium Lead Halide Perovskite Nanoplatelets into Cuboid Crystals with High Intensity Blue Emission. <i>Advanced Science</i> , 2019, 6, 1900462.	11.2	69
129	Improved Stability and Photodetector Performance of CsPbI <sub>3</sub> Perovskite Quantum Dots by Ligand Exchange with Aminoethanethiol. <i>Advanced Functional Materials</i> , 2019, 29, 1902446.	14.9	206
130	Electrochemical Techniques in Battery Research: A Tutorial for Nonelectrochemists. <i>Advanced Energy Materials</i> , 2019, 9, 1900747.	19.5	216
131	Confined annealing-induced transformation of tin oxide into sulfide for sodium storage applications. <i>Journal of Materials Chemistry A</i> , 2019, 7, 11877-11885.	10.3	18
132	Metal Halide Perovskite Light-Emitting Devices: Promising Technology for Next-Generation Displays. <i>Advanced Functional Materials</i> , 2019, 29, 1902008.	14.9	296
133	Reversible Interaction of Sb with an Active Se Matrix Enhances the Cycle Stability of Electrodes for Lithium-Ion Batteries. <i>Chemistry of Materials</i> , 2019, 31, 2469-2475.	6.7	23
134	In-situ fabricated anisotropic halide perovskite nanocrystals in polyvinylalcohol nanofibers: Shape tuning and polarized emission. <i>Nano Research</i> , 2019, 12, 1411-1416.	10.4	54
135	Hydrogen Peroxide Assisted Synthesis of Highly Luminescent Sulfur Quantum Dots. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 7040-7044.	13.8	137
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