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

98 papers	3,915 citations	23 h-index	61 g-index
108 ext. papers	4,868 ext. citations	6 avg, IF	5.51 L-index

#	Paper	IF	Citations
98	Brightly Luminescent and Color-Tunable Colloidal CH ₃ NH ₃ PbX ₃ (X = Br, I, Cl) Quantum Dots: Potential Alternatives for Display Technology. <i>ACS Nano</i> , 2015 , 9, 4533-42	16.7	1602
97	In Situ Fabrication of Halide Perovskite Nanocrystal-Embedded Polymer Composite Films with Enhanced Photoluminescence for Display Backlights. <i>Advanced Materials</i> , 2016 , 28, 9163-9168	24	490
96	Centimeter-Sized Cs ₄ PbBr ₆ Crystals with Embedded CsPbBr ₃ Nanocrystals Showing Superior Photoluminescence: Nonstoichiometry Induced Transformation and Light-Emitting Applications. <i>Advanced Functional Materials</i> , 2018 , 28, 1706567	15.6	205
95	Hydroxyl-Terminated CuInS ₂ Based Quantum Dots: Toward Efficient and Bright Light Emitting Diodes. <i>Chemistry of Materials</i> , 2016 , 28, 1085-1091	9.6	126
94	Highly Efficient Blue Emission from Self-Trapped Excitons in Stable Sb-Doped CsNaInCl Double Perovskites. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 2053-2061	6.4	117
93	Colloidal Synthesis of CH ₃ NH ₃ PbBr Nanoplatelets with Polarized Emission through Self-Organization. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 1780-1783	16.4	79
92	Aggregation-Induced Emission Features of Organometal Halide Perovskites and Their Fluorescence Probe Applications. <i>Advanced Optical Materials</i> , 2015 , 3, 112-119	8.1	64
91	Color-changeable optical transport through Se-doped CdS 1D nanostructures. <i>Nano Letters</i> , 2007 , 7, 2970-5	11.5	63
90	Polarization-Sensitive Self-Powered Type-II GeSe/MoS van der Waals Heterojunction Photodetector. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 15406-15413	9.5	61
89	Experimental Observation of Giant Chiroptical Amplification of Small Chiral Molecules by Gold Nanosphere Clusters. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 9690-9695	3.8	60
88	Ultralow-Threshold and Color-Tunable Continuous-Wave Lasing at Room-Temperature from In Situ Fabricated Perovskite Quantum Dots. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 3248-3253	6.4	50
87	Strong Polarized Photoluminescence from Stretched Perovskite-Nanocrystal-Embedded Polymer Composite Films. <i>Advanced Optical Materials</i> , 2017 , 5, 1700594	8.1	48
86	Charge Carrier Conduction Mechanism in PbS Quantum Dot Solar Cells: Electrochemical Impedance Spectroscopy Study. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 18526-33	9.5	47
85	Near-Unity Red Mn Photoluminescence Quantum Yield of Doped CsPbCl Nanocrystals with Cd Incorporation. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 2142-2149	6.4	44
84	Single-step synthesis of monolithic comb-like CdS nanostructures with tunable waveguide properties. <i>Nano Letters</i> , 2013 , 13, 2997-3001	11.5	41
83	Oleylamine-Assisted Phase-Selective Synthesis of Cu ₂ S Nanocrystals and the Mechanism of Phase Control. <i>Particle and Particle Systems Characterization</i> , 2015 , 32, 907-914	3.1	37
82	Solution-Processed PbSe Colloidal Quantum Dot-Based Near-Infrared Photodetector. <i>IEEE Photonics Technology Letters</i> , 2015 , 27, 612-615	2.2	32

81	Structure and Photoluminescence of Pure and Indium-Doped ZnTe Microstructures. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 1415-1421	3.8	29
80	Preparation and periodic emission of superlattice CdS/CdS:SnS ₂ microwires. <i>Journal of the American Chemical Society</i> , 2010 , 132, 12174-5	16.4	28
79	Pentacene-Based Photodetector in Visible Region With Vertical Field-Effect Transistor Configuration. <i>IEEE Photonics Technology Letters</i> , 2015 , 27, 233-236	2.2	26
78	Highly Stable Red Quantum Dot Light-Emitting Diodes with Long Operation Lifetimes. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 3111-3115	6.4	25
77	High performance solution-processed infrared photodetector based on PbSe quantum dots doped with low carrier mobility polymer poly(N-vinylcarbazole). <i>RSC Advances</i> , 2016 , 6, 44514-44521	3.7	25
76	Tunable Emission Properties of Manganese Chloride Small Single Crystals by Pyridine Incorporation. <i>ACS Omega</i> , 2019 , 4, 8039-8045	3.9	24
75	High performance solution-processed infrared photodiode based on ternary PbS _x Se _{1-x} colloidal quantum dots. <i>RSC Advances</i> , 2016 , 6, 87730-87737	3.7	23
74	Evolution of the structure and properties of mechanochemically synthesized pyrrolidine incorporated manganese bromide powders. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 6488-6495	7.1	21
73	Water-Stable Zero-Dimensional (CH) ₃ NCuCl Single Crystal with Highly Efficient Broadband Green Emission. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 6639-6647	6.4	21
72	Highly Efficient Cool-White Photoluminescence of (Gua) ₂ CuI Single Crystals: Formation and Optical Properties. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 13443-13451	9.5	20
71	Interlayer of PMMA Doped with Au Nanoparticles for High-Performance Tandem Photodetectors: A Solution to Suppress Dark Current and Maintain High Photocurrent. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 26153-26160	9.5	19
70	Solution-Processed, Self-Powered Broadband CH ₃ NH ₃ PbI ₃ Photodetectors Driven by Asymmetric Electrodes. <i>Advanced Optical Materials</i> , 2020 , 8, 2000215	8.1	19
69	Dynamics of single photon transport in a one-dimensional waveguide two-point coupled with a Jaynes-Cummings system. <i>Scientific Reports</i> , 2016 , 6, 33867	4.9	18
68	Solution-processed P3HT-based photodetector with field-effect transistor configuration. <i>Applied Physics A: Materials Science and Processing</i> , 2014 , 116, 1511-1516	2.6	18
67	Surface Engineering of All-Inorganic Perovskite Quantum Dots with Quasi Core/Shell Technique for High-Performance Photodetectors. <i>Advanced Materials Interfaces</i> , 2020 , 7, 2000360	4.6	16
66	In-Plane Anisotropic Raman Response and Electrical Conductivity with Robust Electron-Photon and Electron-Phonon Interactions of Air Stable MoO ₃ Nanosheets. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 2182-2190	6.4	15
65	Mg-Doped ZnO Nanoparticle Films as the Interlayer between the ZnO Electron Transport Layer and InP Quantum Dot Layer for Light-Emitting Diodes. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 8758-8765	3.8	15
64	Vector Exceptional Points with Strong Superchiral Fields. <i>Physical Review Letters</i> , 2020 , 124, 083901	7.4	15

63	Accuracy enhancement of laser induced breakdown spectra using permittivity and size optimized plasma confinement rings. <i>Optics Express</i> , 2017 , 25, 27559-27569	3.3	15
62	Colloidal Synthesis of CH ₃ NH ₃ PbBr ₃ Nanoplatelets with Polarized Emission through Self-Organization. <i>Angewandte Chemie</i> , 2017 , 129, 1806-1809	3.6	14
61	Transport tuning of photonic topological edge states by optical cavities. <i>Physical Review A</i> , 2019 , 99,	2.6	14
60	Performance Enhancement of FET-Based Photodetector by Blending P3HT With PMMA. <i>IEEE Photonics Technology Letters</i> , 2015 , 27, 1535-1538	2.2	12
59	Tin Nanoparticles Enhanced Optical Transportation in Branched CdS Nanowire Waveguides. <i>Advanced Optical Materials</i> , 2018 , 6, 1800305	8.1	12
58	CdSSe nanowire-chip based wearable sweat sensor. <i>Journal of Nanobiotechnology</i> , 2019 , 17, 42	9.4	11
57	Fabrication and micro-photoluminescence property of CdSe/CdS core/shell nanowires. <i>Applied Physics A: Materials Science and Processing</i> , 2015 , 119, 343-349	2.6	10
56	Dual-Color Lasing Lines from EMPs in Diluted Magnetic Semiconductor CdS:Ni Structure. <i>Research</i> , 2019 , 2019, 6956937	7.8	10
55	Surface polarons and optical micro-cavity modulated broad range multi-mode emission of Te-doped CdS nanowires. <i>Nanotechnology</i> , 2018 , 29, 465709	3.4	10
54	The polarization modulation and fabrication method of two dimensional silica photonic crystals based on UV nanoimprint lithography and hot imprint. <i>Scientific Reports</i> , 2016 , 6, 34495	4.9	9
53	Enhancement of the power conversion efficiency of polymer solar cells by functionalized single-walled carbon nanotubes decorated with CdSe/ZnS core-shell colloidal quantum dots. <i>Journal of Materials Science</i> , 2014 , 49, 2571-2577	4.3	9
52	Spin-Related Micro-Photoluminescence in Fe ³⁺ Doped ZnSe Nanoribbons. <i>Applied Sciences (Switzerland)</i> , 2017 , 7, 39	2.6	9
51	Vertically Stacked MoSe ₂ /MoO ₂ Nanolayered Photodetectors with Tunable Photoresponses. <i>ACS Applied Nano Materials</i> , 2020 , 3, 7543-7553	5.6	9
50	To enhance the performance of all-inorganic perovskite photodetectors via constructing both bilayer heterostructure and bipolar carrier transporting channels. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 14938-14948	7.1	9
49	Position-Sensitive Array Photodetector Based on Comb-Like CdS Nanostructure with Cone-Shape Branches. <i>Advanced Functional Materials</i> , 2019 , 29, 1805967	15.6	9
48	Bulk Assembly of Zero-Dimensional Organic Copper Bromide Hybrid with Bright Self-Trapped Exciton Emission and High Antiwater Stability. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 20014-20021	3.8	9
47	Enhancement of the power conversion efficiency of polymer solar cells by incorporating PbSe quantum dots. <i>Journal of Materials Science</i> , 2015 , 50, 840-847	4.3	8
46	Accuracy enhancement of laser induced breakdown spectroscopy by safely low-power discharge. <i>Optics Express</i> , 2018 , 26, 13973-13984	3.3	8

45	Visual monitoring of laser power and spot profile in micron region by a single chip of Zn-doped CdS nanobelts. <i>RSC Advances</i> , 2014 , 4, 52550-52554	3.7	8
44	Group delay of single-photon transmission in a waveguide side coupled with a Jaynes-Cummings chain. <i>Journal of Applied Physics</i> , 2013 , 113, 143105	2.5	8
43	A Polarization-Sensitive Self-Powered Photodetector Based on a p-WSe/TaIrTe/n-MoS van der Waals Heterojunction.. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 61544-61554	9.5	8
42	Gaining Insight into the Underlayer Treatment for in Situ Fabrication of Efficient Perovskite Nanocrystal-Based Light-Emitting Diodes. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 17353-17359	3.8	7
41	Red, Green, and Blue Microcavity Quantum Dot Light-Emitting Devices with Narrow Line Widths. <i>ACS Applied Nano Materials</i> , 2020 , 3, 5301-5310	5.6	7
40	PEDOT:PSS Modification by blending graphene oxide to improve the efficiency of organic solar cells. <i>Polymer Composites</i> , 2018 , 39, 3066-3072	3	7
39	Lithium ion detection in liquid with low detection limit by laser-induced breakdown spectroscopy. <i>Applied Optics</i> , 2019 , 58, 422-427	1.7	7
38	Bosonic Lasing of Collective Exciton Magnetic Polarons in CuCl ₂ -Doped CdS Nanoribbons: Implications for Quantum Light Sources. <i>ACS Applied Nano Materials</i> , 2020 , 3, 5019-5032	5.6	7
37	Antiferromagnetic Magnetic Polaron Formation and Optical Properties of CVD-Grown Mn-Doped Zinc Stannate (ZTO). <i>ACS Applied Electronic Materials</i> , 2020 , 2, 1679-1688	4	6
36	(C ₁₆ H ₂₈ N) ₂ SbCl ₅ : A new lead-free zero-dimensional metal-halide hybrid with bright orange emission. <i>Science China Materials</i> , 1	7.1	6
35	Effects of Electron-Phonon Coupling and Spin-Spin Coupling on the Photoluminescence of Low-Dimensional Metal Halides.. <i>Journal of Physical Chemistry Letters</i> , 2022 , 1752-1764	6.4	6
34	Multipoint Nanolaser Array in an Individual CoreShell CdS Branched Nanostructure. <i>Advanced Optical Materials</i> , 2020 , 8, 1901644	8.1	5
33	Negative differential resistance phenomena in colloidal quantum dots-based organic light-emitting diodes. <i>Applied Physics Letters</i> , 2014 , 104, 033301	3.4	5
32	Multi-Band-Stop Filter for Single-Photon Transport Based on a One-Dimensional Waveguide Side Coupled with Optical Cavities. <i>Plasmonics</i> , 2014 , 9, 1085-1089	2.4	5
31	Dual self-trapped exciton emission of (TBA) ₂ Cu ₂ I ₄ : optical properties and high anti-water stability. <i>Journal of Materials Chemistry C</i> ,	7.1	5
30	Bulk assembly of a 0D organic antimony chloride hybrid with highly efficient orange dual emission by self-trapped states. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 12184-12190	7.1	5
29	Large-scale facile-synthesis and bistable emissions of one-dimensional organicInorganic C ₄ H ₁₄ N ₂ PbBr ₄ metal halide crystals with bipolaronic states. <i>New Journal of Chemistry</i> , 2021 , 45, 17247-17257	3.6	5
28	The high-accuracy prediction of carbon content in semi-coke by laser-induced breakdown spectroscopy. <i>Journal of Analytical Atomic Spectrometry</i> , 2020 , 35, 984-992	3.7	4

27	High enhancement factor in low-power unipolar discharge arc assisted laser induced plasma spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2020 , 174, 105996	3.1	4
26	Reduction of lasing threshold by protecting gas and the structure dependent visual lasing mode of various CdS microstructures. <i>Optics Express</i> , 2016 , 24, 26857-26866	3.3	4
25	Magnetic coupling in 3D-hierarchical MnO ₂ microsphere. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 2802-2808	2.1	4
24	In situ preparation of Mn-doped perovskite nanocrystalline films and application to white light emitting devices. <i>Journal of Colloid and Interface Science</i> , 2022 , 606, 1163-1169	9.3	4
23	Spin-induced magnetic anisotropy in novel Co-doped GaN nanoneedles and their related photoluminescence. <i>New Journal of Chemistry</i> , 2018 , 42, 8338-8341	3.6	3
22	Transmission comb of a distributed Bragg reflector with two surface dielectric gratings. <i>Scientific Reports</i> , 2016 , 6, 21125	4.9	3
21	Rapid determination of all element in MAPbI ₃ thin films using laser induced breakdown spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2021 , 178, 106123	3.1	3
20	Dynamics of chiral state transitions and relaxations in an FeGe thin plate via in situ Lorentz microscopy. <i>Nanoscale</i> , 2020 , 12, 14919-14925	7.7	2
19	Influence of the Post-Synthesis Annealing on Device Performance of PbS Quantum Dot Photoconductive Detectors. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018 , 215, 1800408	1.6	2
18	Determination of detonation characteristics by laser-induced plasma spectra and micro-explosion dynamics.. <i>Optics Express</i> , 2022 , 30, 4718-4736	3.3	2
17	Fragile topologically protected perfect reflection for acoustic waves. <i>Physical Review Research</i> , 2020 , 2,	3.9	2
16	Toward High-Performance Self-Driven Photodetectors via Multistacking Van der Waals Heterostructures. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 56438-56445	9.5	2
15	The sensitivity determination of energetic materials from laser spark spectrometry based on physical-parameter-corrected statistical methods. <i>Journal of Analytical Atomic Spectrometry</i> ,	3.7	2
14	Dielectric polarization effect and transient relaxation in FAPbBr films before and after PMMA passivation. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 10153-10163	3.6	2
13	Three-primary-color molecular cocrystals showing white-light luminescence, tunable optical waveguide and ultrahigh polarized emission. <i>Science China Chemistry</i> , 2022 , 65, 408-417	7.9	2
12	Magnetic quantification of single-crystalline Fe and Co nanowires via off-axis electron holography. <i>Journal of Chemical Physics</i> , 2020 , 152, 114202	3.9	1
11	First principles calculations of optoelectronic and magnetic properties of Co-doped and (Co, Al) co-doped ZnO. <i>Journal of Applied Physics</i> , 2020 , 127, 065707	2.5	1
10	Disorder-induced transparency in a one-dimensional waveguide side coupled with optical cavities. <i>Journal of Applied Physics</i> , 2014 , 115, 173105	2.5	1

9	Stable blue-emissive aluminum acetylacetonate nanocrystals with high quantum yield of over 80% and embedded in polymer matrix for remote UV-pumped white light-emitting diodes. <i>Nanophotonics</i> , 2020 , 9, 1509-1518	6.3	1
8	New Type of Thermoelectric CdSSe Nanowire Chip. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 30959-30966	9.5	1
7	Curvature effects in two-dimensional optical devices inspired by transformation optics. <i>Applied Physics Letters</i> , 2016 , 109, 201105	3.4	1
6	Optical and Optoelectronic Performances of Quasi-Rectangular Cross-Sectional Sn-Doped CdS Nanowires. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 2546-2553	3.8	1
5	Boosting Enhancement of the Electron-Phonon Coupling in Mixed Dimensional CdS/Graphene van der Waals Heterojunction. <i>Advanced Materials Interfaces</i> , 2021 , 2101893	4.6	0
4	Comparative Studies on Two-Dimensional (2D) Rectangular and Hexagonal Molybdenum Dioxide Nanosheets with Different Thickness. <i>Nanoscale Research Letters</i> , 2020 , 15, 156	5	0
3	Photoluminescence and Boosting Electron-Phonon Coupling in CdS Nanowires with Variable Sn(IV) Dopant Concentration. <i>Nanoscale Research Letters</i> , 2021 , 16, 19	5	0
2	Two-dimensional hexagonal symmetry diffraction pattern by SiO ₂ photonic structures fabricated by hot embossing. <i>Functional Materials Letters</i> , 2017 , 10, 1750031	1.2	
1	Tin-doped comb-like CdS microstructure and construction of the micro-sliding rheostat. <i>Materials Letters</i> , 2019 , 249, 41-44	3.3	