

Jun Pan

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57
papers

5,985
citations

32
h-index

58
g-index

58
ext. papers

6,950
ext. citations

10.5
avg, IF

5.43
L-index

#	Paper	IF	Citations
57	Highly Efficient Perovskite-Quantum-Dot Light-Emitting Diodes by Surface Engineering. <i>Advanced Materials</i> , 2016 , 28, 8718-8725	24	700
56	Bidentate Ligand-Passivated CsPbI Perovskite Nanocrystals for Stable Near-Unity Photoluminescence Quantum Yield and Efficient Red Light-Emitting Diodes. <i>Journal of the American Chemical Society</i> , 2018 , 140, 562-565	16.4	537
55	Air-stable n-type colloidal quantum dot solids. <i>Nature Materials</i> , 2014 , 13, 822-8	27	466
54	Air-Stable Surface-Passivated Perovskite Quantum Dots for Ultra-Robust, Single- and Two-Photon-Induced Amplified Spontaneous Emission. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 5027-33	6.4	398
53	Pure Cs ₄ PbBr ₆ : Highly Luminescent Zero-Dimensional Perovskite Solids. <i>ACS Energy Letters</i> , 2016 , 1, 840-845	20.1	367
52	Tailoring the Energy Landscape in Quasi-2D Halide Perovskites Enables Efficient Green-Light Emission. <i>Nano Letters</i> , 2017 , 17, 3701-3709	11.5	309
51	Amine-Free Synthesis of Cesium Lead Halide Perovskite Quantum Dots for Efficient Light-Emitting Diodes. <i>Advanced Functional Materials</i> , 2016 , 26, 8757-8763	15.6	265
50	Solution-Grown Monocrystalline Hybrid Perovskite Films for Hole-Transporter-Free Solar Cells. <i>Advanced Materials</i> , 2016 , 28, 3383-90	24	238
49	Ultralow Self-Doping in Two-dimensional Hybrid Perovskite Single Crystals. <i>Nano Letters</i> , 2017 , 17, 4759-4767	17.5	202
48	Giant Photoluminescence Enhancement in CsPbCl ₃ Perovskite Nanocrystals by Simultaneous Dual-Surface Passivation. <i>ACS Energy Letters</i> , 2018 , 3, 2301-2307	20.1	189
47	Perovskite Nanocrystals as a Color Converter for Visible Light Communication. <i>ACS Photonics</i> , 2016 , 3, 1150-1156	6.3	171
46	Quantum Dots Supply Bulk- and Surface-Passivation Agents for Efficient and Stable Perovskite Solar Cells. <i>Joule</i> , 2019 , 3, 1963-1976	27.8	154
45	Direct-Indirect Nature of the Bandgap in Lead-Free Perovskite Nanocrystals. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 3173-3177	6.4	139
44	Ag ₄₄ (SR) ₃₀ (4-): a silver-thiolate superatom complex. <i>Nanoscale</i> , 2012 , 4, 4269-74	7.7	138
43	Room-Temperature Engineering of All-Inorganic Perovskite Nanocrystals with Different Dimensionalities. <i>Chemistry of Materials</i> , 2017 , 29, 8978-8982	9.6	137
42	High-speed colour-converting photodetector with all-inorganic CsPbBr perovskite nanocrystals for ultraviolet light communication. <i>Light: Science and Applications</i> , 2019 , 8, 94	16.7	125
41	Synthesis of single-crystal-like nanoporous carbon membranes and their application in overall water splitting. <i>Nature Communications</i> , 2017 , 8, 13592	17.4	123

40	Engineering of CH ₃ NH ₃ PbI ₃ Perovskite Crystals by Alloying Large Organic Cations for Enhanced Thermal Stability and Transport Properties. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 10686-90	16.4	121
39	Spiro-OMeTAD single crystals: Remarkably enhanced charge-carrier transport via mesoscale ordering. <i>Science Advances</i> , 2016 , 2, e1501491	14.3	96
38	Colloidal quantum dot photovoltaics: the effect of polydispersity. <i>Nano Letters</i> , 2012 , 12, 1007-12	11.5	95
37	Directly deposited quantum dot solids using a colloiddally stable nanoparticle ink. <i>Advanced Materials</i> , 2013 , 25, 5742-9	24	87
36	Removal of Pb(II) from aqueous solution on chitosan/TiO ₂ hybrid film. <i>Journal of Hazardous Materials</i> , 2009 , 161, 718-22	12.8	86
35	Edge stabilization in reduced-dimensional perovskites. <i>Nature Communications</i> , 2020 , 11, 170	17.4	79
34	Automated synthesis of photovoltaic-quality colloidal quantum dots using separate nucleation and growth stages. <i>ACS Nano</i> , 2013 , 7, 10158-66	16.7	77
33	Light-Induced Self-Assembly of Cubic CsPbBr ₃ Perovskite Nanocrystals into Nanowires. <i>Chemistry of Materials</i> , 2019 , 31, 6642-6649	9.6	73
32	Characterization of size, anisotropy, and density heterogeneity of nanoparticles by sedimentation velocity. <i>Analytical Chemistry</i> , 2014 , 86, 7688-95	7.8	63
31	Hydrothermal Synthesis and Electrochemical Properties of Urchin-Like CoreShell Copper Oxide Nanostructures. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 9645-9650	3.8	62
30	Real-Time Observation of Ultrafast Intraband Relaxation and Exciton Multiplication in PbS Quantum Dots. <i>ACS Photonics</i> , 2014 , 1, 285-292	6.3	50
29	Robust and air-stable sandwiched organo-lead halide perovskites for photodetector applications. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 2545-2552	7.1	46
28	Tensile strength optimization and characterization of chitosan/TiO ₂ hybrid film. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2007 , 138, 84-89	3.1	42
27	Shape-Tunable Charge Carrier Dynamics at the Interfaces between Perovskite Nanocrystals and Molecular Acceptors. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 3913-3919	6.4	38
26	Halogen Vacancies Enable Ligand-Assisted Self-Assembly of Perovskite Quantum Dots into Nanowires. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 16077-16081	16.4	32
25	Glycine assisted synthesis of flower-like TiO ₂ hierarchical spheres and its application in photocatalysis. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2012 , 177, 1664-1671	3.1	31
24	Tetraethylenepentamine-directed controllable synthesis of wurtzite ZnSe nanostructures with tunable morphology. <i>Chemistry - A European Journal</i> , 2008 , 14, 9786-91	4.8	28
23	Gram-scale fractionation of nanodiamonds by density gradient ultracentrifugation. <i>Nanoscale</i> , 2013 , 5, 5017-26	7.7	26

22	Wearable electronics for heating and sensing based on a multifunctional PET/silver nanowire/PDMS yarn. <i>Nanoscale</i> , 2020 , 12, 16562-16569	7.7	25
21	Oriented Halide Perovskite Nanostructures and Thin Films for Optoelectronics. <i>Chemical Reviews</i> , 2021 , 121, 12112-12180	68.1	25
20	Peripheral Dopamine Controlled by Gut Microbes Inhibits Invariant Natural Killer T Cell-Mediated Hepatitis. <i>Frontiers in Immunology</i> , 2018 , 9, 2398	8.4	25
19	Engineering of CH ₃ NH ₃ PbI ₃ Perovskite Crystals by Alloying Large Organic Cations for Enhanced Thermal Stability and Transport Properties. <i>Angewandte Chemie</i> , 2016 , 128, 10844-10848	3.6	15
18	Constructing Polymorphic Nanodomains in BaTiO ₃ Films via Epitaxial Symmetry Engineering. <i>Advanced Functional Materials</i> , 2020 , 30, 1910569	15.6	14
17	Tartaric Acid and L-Cysteine Synergistic-Assisted Synthesis of Antimony Trisulfide Hierarchical Structures in Aqueous Solution. <i>European Journal of Inorganic Chemistry</i> , 2009 , 2009, 5302-5306	2.3	14
16	Halogen Vacancies Enable Ligand-Assisted Self-Assembly of Perovskite Quantum Dots into Nanowires. <i>Angewandte Chemie</i> , 2019 , 131, 16223-16227	3.6	13
15	Ti ₃ C ₂ MXene-based Schottky photocathode for enhanced photoelectrochemical sensing. <i>Journal of Alloys and Compounds</i> , 2021 , 859, 157787	5.7	10
14	Alternating Current Electroluminescent Devices with Inorganic Phosphors for Deformable Displays. <i>Cell Reports Physical Science</i> , 2020 , 1, 100213	6.1	8
13	2D foaming of ultrathin MXene sheets with highly conductive silver nanowires for wearable electromagnetic interference shielding applications owing to multiple reflections within created free space. <i>Nano Futures</i> , 2020 , 4, 035002	3.6	8
12	P-124: Perovskite Quantum Dots Display: Challenges and Opportunities. <i>Digest of Technical Papers SID International Symposium</i> , 2019 , 50, 1712-1715	0.5	6
11	Synthesis of cadmium chalcogenide nanotubes at room temperature. <i>Materials Letters</i> , 2012 , 85, 132-134	3.3	6
10	P-203: Late-News Poster: Novel Techniques for Highly Stable Luminescent Perovskite Halide Quantum Dots. <i>Digest of Technical Papers SID International Symposium</i> , 2018 , 49, 1681-1684	0.5	5
9	Ultrasonically Assisted Synthesis of Tin Sulfide Nanorods at Room Temperature. <i>Advanced Materials Research</i> , 2009 , 79-82, 313-316	0.5	4
8	Recent Progress in the Stability of Red-Emissive Perovskite Nanocrystals for Light-Emitting Diodes	1233-1254	4
7	Controllable synthesis of TiO ₂ nanomaterials by assisting with l-cysteine and ethylenediamine. <i>Journal of Materials Science</i> , 2014 , 49, 897-904	4.3	3
6	Cadmium sulfide rod-bundle structures decorated with nanoparticles from an inorganic/organic composite. <i>Journal of Nanoparticle Research</i> , 2011 , 13, 3535-3543	2.3	3
5	Enhanced stability of silver nanowire transparent conductive films against ultraviolet light illumination. <i>Nanotechnology</i> , 2021 , 32, 055603	3.4	2

4	A highly sensitive strain sensor with a sandwich structure composed of two silver nanoparticles layers and one silver nanowires layer for human motion detection. <i>Nanotechnology</i> , 2021 , 32,	3.4	2
3	8-2: Invited Paper: A New Generation of Luminescent Materials Based on Low-Dimensional Perovskites. <i>Digest of Technical Papers SID International Symposium</i> , 2017 , 48, 83-86	0.5	1
2	Synthesis and Gas Sensing Properties of Urchin-Like CuO Self-Assembled by Nanorods through a Poly(ethylene glycol)-Assisted Hydrothermal Process. <i>Advanced Materials Research</i> , 2009 , 79-82, 1059-1062	0.5	1
1	High-Speed Ultraviolet-C Photodetector Based on Frequency Down-Converting CsPbBr ₃ Perovskite Nanocrystals on Silicon Platform 2019 ,		1