

Makhsud I Saidaminov

List of Publications by Year in Descending Order

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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.

102
papers

12,110
citations

52
h-index

109
g-index

109
ext. papers

15,022
ext. citations

17.7
avg, IF

6.55
L-index

#	Paper	IF	Citations
102	Bismuth Stabilizes the β -Phase of Formamidinium Lead Iodide Perovskite Single Crystals 2022 , 4, 707-712		1
101	High-throughput exploration of halide perovskite compositionally-graded films and degradation mechanisms. <i>Communications Materials</i> , 2022 , 3,	6	2
100	Dark Self-Healing-Mediated Negative Photoconductivity of a Lead-Free CsBiCl Perovskite Single Crystal. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 2286-2292	6.4	15
99	DMPDABPdMAH: A Versatile Pd(0) Source for Precatalyst Formation, Reaction Screening, and Preparative-Scale Synthesis. <i>ACS Catalysis</i> , 2021 , 11, 5636-5646	13.1	6
98	Electro-Optic Modulation Using Metal-Free Perovskites. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 19042-19047	9.5	3
97	Carbon-based all-inorganic perovskite solar cells: Progress, challenges and strategies toward 20% efficiency. <i>Materials Today</i> , 2021 ,	21.8	6
96	All-Inorganic Quantum-Dot LEDs Based on a Phase-Stabilized β -CsPbI ₃ Perovskite. <i>Angewandte Chemie</i> , 2021 , 133, 16300-16306	3.6	1
95	Advances in Lead-Free Perovskite Single Crystals: Fundamentals and Applications 2021 , 3, 1025-1080		24
94	All-Inorganic Quantum-Dot LEDs Based on a Phase-Stabilized β -CsPbI Perovskite. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 16164-16170	16.4	59
93	Perovskite Solar Cells with Polyaniline Hole Transport Layers Surpassing a 20% Power Conversion Efficiency. <i>Chemistry of Materials</i> , 2021 , 33, 4679-4687	9.6	5
92	Deep-Blue Perovskite Single-Mode Lasing through Efficient Vapor-Assisted Chlorination. <i>Advanced Materials</i> , 2021 , 33, e2006697	24	17
91	Perovskite Single-Crystal Solar Cells: Going Forward. <i>ACS Energy Letters</i> , 2021 , 6, 631-642	20.1	37
90	High length-to-width aspect ratio lead bromide microwires via perovskite-induced local concentration gradient for X-ray detection. <i>CrystEngComm</i> , 2021 , 23, 2215-2221	3.3	2
89	Tin Halide Perovskites Going Forward: Frost Diagrams Offer Hints 2021 , 3, 299-307		21
88	Quantum Dot Self-Assembly Enables Low-Threshold Lasing. <i>Advanced Science</i> , 2021 , 8, e2101125	13.6	12
87	Stimuli-responsive switchable halide perovskites: Taking advantage of instability. <i>Joule</i> , 2021 , 5, 2027-2046	24.8	13
86	Magnetic optical rotary dispersion and magnetic circular dichroism in methylammonium lead halide perovskites. <i>Chirality</i> , 2021 , 33, 610-617	2.1	1

85	Stable, Bromine-Free, Tetragonal Perovskites with 1.7 eV Bandgaps via A-Site Cation Substitution 2020 , 2, 869-872		9
84	Single-Precursor Intermediate Shelling Enables Bright, Narrow Line Width InAs/InZnP-Based QD Emitters. <i>Chemistry of Materials</i> , 2020 , 32, 2919-2925	9.6	6
83	Chloride Insertion-Immobilization Enables Bright, Narrowband, and Stable Blue-Emitting Perovskite Diodes. <i>Journal of the American Chemical Society</i> , 2020 , 142, 5126-5134	16.4	61
82	Chiral-perovskite optoelectronics. <i>Nature Reviews Materials</i> , 2020 , 5, 423-439	73.3	191
81	Efficient tandem solar cells with solution-processed perovskite on textured crystalline silicon. <i>Science</i> , 2020 , 367, 1135-1140	33.3	298
80	Ultrasensitive and stable X-ray detection using zero-dimensional lead-free perovskites. <i>Journal of Energy Chemistry</i> , 2020 , 49, 299-306	12	75
79	Enhanced optical path and electron diffusion length enable high-efficiency perovskite tandems. <i>Nature Communications</i> , 2020 , 11, 1257	17.4	114
78	Conventional Solvent Oxidizes Sn(II) in Perovskite Inks. <i>ACS Energy Letters</i> , 2020 , 5, 1153-1155	20.1	57
77	Regulating strain in perovskite thin films through charge-transport layers. <i>Nature Communications</i> , 2020 , 11, 1514	17.4	165
76	Bipolar-shell resurfacing for blue LEDs based on strongly confined perovskite quantum dots. <i>Nature Nanotechnology</i> , 2020 , 15, 668-674	28.7	281
75	Combining Efficiency and Stability in Mixed Tin-Lead Perovskite Solar Cells by Capping Grains with an Ultrathin 2D Layer. <i>Advanced Materials</i> , 2020 , 32, e1907058	24	92
74	Multi-cation perovskites prevent carrier reflection from grain surfaces. <i>Nature Materials</i> , 2020 , 19, 412-418	18	52
73	Solvent-Solute Coordination Engineering for Efficient Perovskite Luminescent Solar Concentrators. <i>Joule</i> , 2020 , 4, 631-643	27.8	28
72	High Color Purity Lead-Free Perovskite Light-Emitting Diodes via Sn Stabilization. <i>Advanced Science</i> , 2020 , 7, 1903213	13.6	85
71	Heterogeneous Supersaturation in Mixed Perovskites. <i>Advanced Science</i> , 2020 , 7, 1903166	13.6	8
70	Permanent Lattice Compression of Lead-Halide Perovskite for Persistently Enhanced Optoelectronic Properties. <i>ACS Energy Letters</i> , 2020 , 5, 642-649	20.1	21
69	Efficient near-infrared light-emitting diodes based on quantum dots in layered perovskite. <i>Nature Photonics</i> , 2020 , 14, 227-233	33.9	91
68	Edge stabilization in reduced-dimensional perovskites. <i>Nature Communications</i> , 2020 , 11, 170	17.4	79

67	Bright high-colour-purity deep-blue carbon dot light-emitting diodes via efficient edge amination. <i>Nature Photonics</i> , 2020 , 14, 171-176	33.9	144
66	Narrow Emission from Rb ₃ Sb ₂ I ₉ Nanoparticles. <i>Advanced Optical Materials</i> , 2020 , 8, 1901606	8.1	16
65	All-perovskite tandem solar cells with 24.2% certified efficiency and area over 1 cm ² using surface-anchoring zwitterionic antioxidant. <i>Nature Energy</i> , 2020 , 5, 870-880	62.3	233
64	Bromine Incorporation and Suppressed Cation Rotation in Mixed-Halide Perovskites. <i>ACS Nano</i> , 2020 , 14, 15107-15118	16.7	10
63	Strain Engineering in Halide Perovskites 2020 , 2, 1495-1508		37
62	Dual Coordination of Ti and Pb Using Bilinkable Ligands Improves Perovskite Solar Cell Performance and Stability. <i>Advanced Functional Materials</i> , 2020 , 30, 2005155	15.6	11
61	Suppression of Auger Recombination by Gradient Alloying in InAs/CdSe/CdS QDs. <i>Chemistry of Materials</i> , 2020 , 32, 7703-7709	9.6	4
60	Learning-in-Templates Enables Accelerated Discovery and Synthesis of New Stable Double Perovskites. <i>Journal of the American Chemical Society</i> , 2019 , 141, 3682-3690	16.4	17
59	Suppressed Ion Migration in Reduced-Dimensional Perovskites Improves Operating Stability. <i>ACS Energy Letters</i> , 2019 , 4, 1521-1527	20.1	89
58	Contactless measurements of photocarrier transport properties in perovskite single crystals. <i>Nature Communications</i> , 2019 , 10, 1591	17.4	35
57	In Situ Back-Contact Passivation Improves Photovoltage and Fill Factor in Perovskite Solar Cells. <i>Advanced Materials</i> , 2019 , 31, e1807435	24	112
56	Electro-Optic Modulation in Hybrid Metal Halide Perovskites. <i>Advanced Materials</i> , 2019 , 31, e1808336	24	26
55	Transition from Positive to Negative Photoconductance in Doped Hybrid Perovskite Semiconductors. <i>Advanced Optical Materials</i> , 2019 , 7, 1900865	8.1	27
54	Temperature-Induced Self-Compensating Defect Traps and Gain Thresholds in Colloidal Quantum Dots. <i>ACS Nano</i> , 2019 , 13, 8970-8976	16.7	7
53	Thermal unequilibrium of strained black CsPbI ₃ thin films. <i>Science</i> , 2019 , 365, 679-684	33.3	272
52	Fine Structural Details Matter: A Lesson from Seven-Layered 2D Hybrid Perovskites. <i>Chem</i> , 2019 , 5, 2513-2514	35.1	1
51	Efficient and Stable Inverted Perovskite Solar Cells Incorporating Secondary Amines. <i>Advanced Materials</i> , 2019 , 31, e1903559	24	85
50	Spectrally Tunable and Stable Electroluminescence Enabled by Rubidium Doping of CsPbBr ₃ Nanocrystals. <i>Advanced Optical Materials</i> , 2019 , 7, 1901440	8.1	31

49	Halogen Vacancies Enable Ligand-Assisted Self-Assembly of Perovskite Quantum Dots into Nanowires. <i>Angewandte Chemie</i> , 2019 , 131, 16223-16227	3.6	13
48	Perovskite Solar Cells: Efficient and Stable Inverted Perovskite Solar Cells Incorporating Secondary Amines (Adv. Mater. 46/2019). <i>Advanced Materials</i> , 2019 , 31, 1970330	24	1
47	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
46	Solution-processed perovskite-colloidal quantum dot tandem solar cells for photon collection beyond 1000 nm. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 26020-26028	13	30
45	Monolithic all-perovskite tandem solar cells with 24.8% efficiency exploiting comproportionation to suppress Sn(II) oxidation in precursor ink. <i>Nature Energy</i> , 2019 , 4, 864-873	62.3	463
44	Amide-Catalyzed Phase-Selective Crystallization Reduces Defect Density in Wide-Bandgap Perovskites. <i>Advanced Materials</i> , 2018 , 30, e1706275	24	62
43	Dipolar cations confer defect tolerance in wide-bandgap metal halide perovskites. <i>Nature Communications</i> , 2018 , 9, 3100	17.4	171
42	Suppression of atomic vacancies via incorporation of isovalent small ions to increase the stability of halide perovskite solar cells in ambient air. <i>Nature Energy</i> , 2018 , 3, 648-654	62.3	355
41	2D Metal Oxyhalide-Derived Catalysts for Efficient CO Electroreduction. <i>Advanced Materials</i> , 2018 , 30, e1802858	24	123
40	Perovskite Single Crystals: Synthesis, Properties and Devices. <i>Materials and Energy</i> , 2018 , 241-283		2
39	Multibandgap quantum dot ensembles for solar-matched infrared energy harvesting. <i>Nature Communications</i> , 2018 , 9, 4003	17.4	39
38	Butylamine-Catalyzed Synthesis of Nanocrystal Inks Enables Efficient Infrared CQD Solar Cells. <i>Advanced Materials</i> , 2018 , 30, e1803830	24	48
37	Copper adparticle enabled selective electrosynthesis of n-propanol. <i>Nature Communications</i> , 2018 , 9, 4614	17.4	86
36	Challenges for commercializing perovskite solar cells. <i>Science</i> , 2018 , 361,	33.3	853
35	Efficient Photon Recycling and Radiation Trapping in Cesium Lead Halide Perovskite Waveguides. <i>ACS Energy Letters</i> , 2018 , 3, 1492-1498	20.1	56
34	Double Charged Surface Layers in Lead Halide Perovskite Crystals. <i>Nano Letters</i> , 2017 , 17, 2021-2027	11.5	52
33	Zero-Dimensional CsPbBr Perovskite Nanocrystals. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 961-965	5.4	229
32	Low-Dimensional-Networked Metal Halide Perovskites: The Next Big Thing. <i>ACS Energy Letters</i> , 2017 , 2, 889-896	20.1	288

31	Time-Dependent Mechanical Response of APbX (A = Cs, CH NH ; X = I, Br) Single Crystals. <i>Advanced Materials</i> , 2017 , 29, 1606556	24	42
30	Pyridine-Induced Dimensionality Change in Hybrid Perovskite Nanocrystals. <i>Chemistry of Materials</i> , 2017 , 29, 4393-4400	9.6	68
29	Thermochromic Perovskite Inks for Reversible Smart Window Applications. <i>Chemistry of Materials</i> , 2017 , 29, 3367-3370	9.6	89
28	Inorganic Lead Halide Perovskite Single Crystals: Phase-Selective Low-Temperature Growth, Carrier Transport Properties, and Self-Powered Photodetection. <i>Advanced Optical Materials</i> , 2017 , 5, 1600704	8.1	277
27	Inside Perovskites: Quantum Luminescence from Bulk Cs ₄ PbBr ₆ Single Crystals. <i>Chemistry of Materials</i> , 2017 , 29, 7108-7113	9.6	160
26	The Role of Surface Tension in the Crystallization of Metal Halide Perovskites. <i>ACS Energy Letters</i> , 2017 , 2, 1782-1788	20.1	103
25	High-Purity Hybrid Organolead Halide Perovskite Nanoparticles Obtained by Pulsed-Laser Irradiation in Liquid. <i>ChemPhysChem</i> , 2017 , 18, 1047-1054	3.2	19
24	Surface Electronic Structure of Hybrid Organo Lead Bromide Perovskite Single Crystals. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 21710-21715	3.8	52
23	Perovskite Photodetectors Operating in Both Narrowband and Broadband Regimes. <i>Advanced Materials</i> , 2016 , 28, 8144-8149	24	206
22	Pure crystal orientation and anisotropic charge transport in large-area hybrid perovskite films. <i>Nature Communications</i> , 2016 , 7, 13407	17.4	140
21	Surface Restructuring of Hybrid Perovskite Crystals. <i>ACS Energy Letters</i> , 2016 , 1, 1119-1126	20.1	115
20	Perovskite Nanocrystals as a Color Converter for Visible Light Communication. <i>ACS Photonics</i> , 2016 , 3, 1150-1156	6.3	171
19	Making and Breaking of Lead Halide Perovskites. <i>Accounts of Chemical Research</i> , 2016 , 49, 330-8	24.3	491
18	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
17	Enhanced Etching, Surface Damage Recovery, and Submicron Patterning of Hybrid Perovskites using a Chemically Gas-Assisted Focused-Ion Beam for Subwavelength Grating Photonic Applications. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 137-42	6.4	55
16	Heterovalent Dopant Incorporation for Bandgap and Type Engineering of Perovskite Crystals. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 295-301	6.4	268
15	Fast and Sensitive Solution-Processed Visible-Blind Perovskite UV Photodetectors. <i>Advanced Materials</i> , 2016 , 28, 7264-8	24	192
14	The In-Gap Electronic State Spectrum of Methylammonium Lead Iodide Single-Crystal Perovskites. <i>Advanced Materials</i> , 2016 , 28, 3406-10	24	151

13	Formamidinium Lead Halide Perovskite Crystals with Unprecedented Long Carrier Dynamics and Diffusion Length. <i>ACS Energy Letters</i> , 2016 , 1, 32-37	20.1	551
12	Pure Cs ₄ PbBr ₆ : Highly Luminescent Zero-Dimensional Perovskite Solids. <i>ACS Energy Letters</i> , 2016 , 1, 840-845	20.1	367
11	Optical constants of CH ₃ NH ₃ PbBr ₃ perovskite thin films measured by spectroscopic ellipsometry. <i>Optics Express</i> , 2016 , 24, 16586-94	3.3	76
10	High-quality bulk hybrid perovskite single crystals within minutes by inverse temperature crystallization. <i>Nature Communications</i> , 2015 , 6, 7586	17.4	1164
9	Retrograde solubility of formamidinium and methylammonium lead halide perovskites enabling rapid single crystal growth. <i>Chemical Communications</i> , 2015 , 51, 17658-61	5.8	266
8	CH ₃ NH ₃ PbCl ₃ Single Crystals: Inverse Temperature Crystallization and Visible-Blind UV-Photodetector. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 3781-6	6.4	507
7	Planar-integrated single-crystalline perovskite photodetectors. <i>Nature Communications</i> , 2015 , 6, 8724	17.4	497
6	The peculiarities of reduction of iron (III) oxides deposited on expanded graphite. <i>Journal of Materials Research</i> , 2014 , 29, 252-259	2.5	6
5	Expandable graphite modification by boric acid. <i>Journal of Materials Research</i> , 2012 , 27, 1054-1059	2.5	4
4	Self-Aligned Non-Centrosymmetric Conjugated Molecules Enable Electro-Optic Perovskites. <i>Advanced Optical Materials</i> , 2100730	8.1	3
3	Orthorhombic Non-Perovskite CsPbI ₃ Microwires for Stable High-Resolution X-Ray Detectors. <i>Advanced Optical Materials</i> , 2200516	8.1	2
2	High-Throughput Synthesis of Thin Films for the Discovery of Energy Materials: A Perspective. <i>ACS Materials Au</i> ,		0
1	Scalable Fabrication of Metal Halide Perovskites for Direct X-ray Flat-Panel Detectors: A Perspective. <i>Chemistry of Materials</i> ,	9.6	6