

# Rui Su

## List of Publications by Year in descending order

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41  
papers

6,040  
citations

159585

30  
h-index

289244

40  
g-index

41  
all docs

41  
docs citations

41  
times ranked

6852  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanochemistry Advances High-Performance Perovskite Solar Cells. <i>Advanced Materials</i> , 2022, 34, e2107420.	21.0	51
2	Nonlinear polariton parametric emission in an atomically thin semiconductor based microcavity. <i>Nature Nanotechnology</i> , 2022, 17, 396-402.	31.5	32
3	Recent developments on polariton lasers. <i>Progress in Quantum Electronics</i> , 2022, 83, 100399.	7.0	5
4	Buried Interfaces in Halide Perovskite Photovoltaics. <i>Advanced Materials</i> , 2021, 33, e2006435.	21.0	214
5	Spontaneously coherent orbital coupling of counterrotating exciton polaritons in annular perovskite microcavities. <i>Light: Science and Applications</i> , 2021, 10, 45.	16.6	26
6	Nonlinear Parametric Scattering of Exciton Polaritons in Perovskite Microcavities. <i>Nano Letters</i> , 2021, 21, 3120-3126.	9.1	23
7	Dielectric screening in perovskite photovoltaics. <i>Nature Communications</i> , 2021, 12, 2479.	12.8	88
8	Ultralow Threshold Polariton Condensate in a Monolayer Semiconductor Microcavity at Room Temperature. <i>Nano Letters</i> , 2021, 21, 3331-3339.	9.1	66
9	Optical switching of topological phase in a perovskite polariton lattice. <i>Science Advances</i> , 2021, 7, .	10.3	58
10	Plasma Oxidized Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene as Electron Transport Layer for Efficient Perovskite Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 32495-32502.	8.0	41
11	Perovskite semiconductors for room-temperature exciton-polaritonics. <i>Nature Materials</i> , 2021, 20, 1315-1324.	27.5	109
12	Spin-Polarized Electrons Impact on Terahertz Emission by High-Order Shift Current in CsPbBr <sub>3</sub> . <i>Advanced Optical Materials</i> , 2021, 9, 2100822.	7.3	5
13	Room Temperature Exciton-Polariton Bose-Einstein Condensation in Organic Single-crystal Microribbon Cavities. <i>Chemical Research in Chinese Universities</i> , 2021, 37, 1348-1349.	2.6	0
14	Halide Perovskite Semiconductor Lasers: Materials, Cavity Design, and Low Threshold. <i>Nano Letters</i> , 2021, 21, 1903-1914.	9.1	220
15	Depth-dependent defect manipulation in perovskites for high-performance solar cells. <i>Energy and Environmental Science</i> , 2021, 14, 6526-6535.	30.8	114
16	Direct measurement of a non-Hermitian topological invariant in a hybrid light-matter system. <i>Science Advances</i> , 2021, 7, eabj8905.	10.3	48
17	All-optical switching based on interacting exciton polaritons in self-assembled perovskite microwires. <i>Science Advances</i> , 2021, 7, eabj6627.	10.3	47
18	Surface modification induced by perovskite quantum dots for triple-cation perovskite solar cells. <i>Nano Energy</i> , 2020, 67, 104189.	16.0	81

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19	Minimizing non-radiative recombination losses in perovskite solar cells. <i>Nature Reviews Materials</i> , 2020, 5, 44-60.	48.7	754
20	Transient circular dichroism and exciton spin dynamics in all-inorganic halide perovskites. <i>Nature Communications</i> , 2020, 11, 5665.	12.8	29
21	Superior Carrier Lifetimes Exceeding 6 $\mu$ s in Polycrystalline Halide Perovskites. <i>Advanced Materials</i> , 2020, 32, e2002585.	21.0	151
22	Green Solution-Bathing Process for Efficient Large-Area Planar Perovskite Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 24905-24912.	8.0	20
23	Dynamics of exciton energy renormalization in monolayer transition metal disulfides. <i>Nano Research</i> , 2020, 13, 1399-1405.	10.4	27
24	High-Performance CsPbBr <sub>3</sub> All-Inorganic Perovskite Solar Cells with Efficiency over 18% via Spontaneous Interfacial Manipulation. <i>Advanced Functional Materials</i> , 2020, 30, 2000457.	14.9	118
25	Observation of exciton polariton condensation in a perovskite lattice at room temperature. <i>Nature Physics</i> , 2020, 16, 301-306.	16.7	159
26	Low-Dimensional Contact Layers for Enhanced Perovskite Photodiodes. <i>Advanced Functional Materials</i> , 2020, 30, 2001692.	14.9	30
27	Exciton binding energy and effective mass of CsPbCl <sub>3</sub> : a magneto-optical study. <i>Photonics Research</i> , 2020, 8, A50.	7.0	43
28	High-Order Shift Current Induced Terahertz Emission from Inorganic Cesium Bromine Lead Perovskite Engineered by Two-Photon Absorption. <i>Advanced Functional Materials</i> , 2019, 29, 1904694.	14.9	26
29	Perovskite solar cell towards lower toxicity: a theoretical study of physical lead reduction strategy. <i>Science Bulletin</i> , 2019, 64, 1255-1261.	9.0	54
30	Mixed-cation perovskite solar cells in space. <i>Science China: Physics, Mechanics and Astronomy</i> , 2019, 62, 1.	5.1	116
31	Low-dimensional perovskite interlayer for highly efficient lead-free formamidinium tin iodide perovskite solar cells. <i>Nano Energy</i> , 2018, 49, 411-418.	16.0	184
32	Diboron-Assisted Interfacial Defect Control Strategy for Highly Efficient Planar Perovskite Solar Cells. <i>Advanced Materials</i> , 2018, 30, e1805085.	21.0	128
33	Room temperature long-range coherent exciton polariton condensate flow in lead halide perovskites. <i>Science Advances</i> , 2018, 4, eaau0244.	10.3	111
34	Enhanced photovoltage for inverted planar heterojunction perovskite solar cells. <i>Science</i> , 2018, 360, 1442-1446.	12.6	1,221
35	Perovskite Single-Crystal Microarrays for Efficient Photovoltaic Devices. <i>Chemistry of Materials</i> , 2018, 30, 4590-4596.	6.7	33
36	Room Temperature Coherently Coupled Exciton-Polaritons in Two-Dimensional Organic-Inorganic Perovskite. <i>ACS Nano</i> , 2018, 12, 8382-8389.	14.6	107

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37	Room-Temperature Polariton Lasing in All-Inorganic Perovskite Nanoplatelets. Nano Letters, 2017, 17, 3982-3988.	9.1	311
38	Metal halide perovskite nanomaterials: synthesis and applications. Chemical Science, 2017, 8, 2522-2536.	7.4	233
39	Advances in Small Perovskite-Based Lasers. Small Methods, 2017, 1, 1700163.	8.6	268
40	Solution-processed highly bright and durable cesium lead halide perovskite light-emitting diodes. Nanoscale, 2016, 8, 18021-18026.	5.6	160
41	High-Quality Whispering-Gallery-Mode Lasing from Cesium Lead Halide Perovskite Nanoplatelets. Advanced Functional Materials, 2016, 26, 6238-6245.	14.9	529