

# Rui Su

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3740059/publications.pdf>

Version: 2024-02-01

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	Enhanced photovoltage for inverted planar heterojunction perovskite solar cells. <i>Science</i> , 2018, 360, 1442-1446.	12.6	1,221
2	Minimizing non-radiative recombination losses in perovskite solar cells. <i>Nature Reviews Materials</i> , 2020, 5, 44-60.	48.7	754
3	High-Quality Whispering-Gallery-Mode Lasing from Cesium Lead Halide Perovskite Nanoplatelets. <i>Advanced Functional Materials</i> , 2016, 26, 6238-6245.	14.9	529
4	Room-Temperature Polariton Lasing in All-Inorganic Perovskite Nanoplatelets. <i>Nano Letters</i> , 2017, 17, 3982-3988.	9.1	311
5	Advances in Small Perovskite-Based Lasers. <i>Small Methods</i> , 2017, 1, 1700163.	8.6	268
6	Metal halide perovskite nanomaterials: synthesis and applications. <i>Chemical Science</i> , 2017, 8, 2522-2536.	7.4	233
7	Halide Perovskite Semiconductor Lasers: Materials, Cavity Design, and Low Threshold. <i>Nano Letters</i> , 2021, 21, 1903-1914.	9.1	220
8	Buried Interfaces in Halide Perovskite Photovoltaics. <i>Advanced Materials</i> , 2021, 33, e2006435.	21.0	214
9	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
10	Solution-processed highly bright and durable cesium lead halide perovskite light-emitting diodes. <i>Nanoscale</i> , 2016, 8, 18021-18026.	5.6	160
11	Observation of exciton polariton condensation in a perovskite lattice at room temperature. <i>Nature Physics</i> , 2020, 16, 301-306.	16.7	159
12	Superior Carrier Lifetimes Exceeding 6 $\mu$ s in Polycrystalline Halide Perovskites. <i>Advanced Materials</i> , 2020, 32, e2002585.	21.0	151
13	Diboron-Assisted Interfacial Defect Control Strategy for Highly Efficient Planar Perovskite Solar Cells. <i>Advanced Materials</i> , 2018, 30, e1805085.	21.0	128
14	High-Performance CsPbI <sub>3</sub> Br <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
15	Mixed-cation perovskite solar cells in space. <i>Science China: Physics, Mechanics and Astronomy</i> , 2019, 62, 1.	5.1	116
16	Depth-dependent defect manipulation in perovskites for high-performance solar cells. <i>Energy and Environmental Science</i> , 2021, 14, 6526-6535.	30.8	114
17	Room temperature long-range coherent exciton polariton condensate flow in lead halide perovskites. <i>Science Advances</i> , 2018, 4, eaau0244.	10.3	111
18	Perovskite semiconductors for room-temperature exciton-polaritonics. <i>Nature Materials</i> , 2021, 20, 1315-1324.	27.5	109

#	ARTICLE	IF	CITATIONS
19	Room Temperature Coherently Coupled Exciton-Polaritons in Two-Dimensional Organic-Inorganic Perovskite. ACS Nano, 2018, 12, 8382-8389.	14.6	107
20	Dielectric screening in perovskite photovoltaics. Nature Communications, 2021, 12, 2479.	12.8	88
21	Surface modification induced by perovskite quantum dots for triple-cation perovskite solar cells. Nano Energy, 2020, 67, 104189.	16.0	81
22	Ultralow Threshold Polariton Condensate in a Monolayer Semiconductor Microcavity at Room Temperature. Nano Letters, 2021, 21, 3331-3339.	9.1	66
23	Optical switching of topological phase in a perovskite polariton lattice. Science Advances, 2021, 7, .	10.3	58
24	Perovskite solar cell towards lower toxicity: a theoretical study of physical lead reduction strategy. Science Bulletin, 2019, 64, 1255-1261.	9.0	54
25	Mechanochemistry Advances High-Performance Perovskite Solar Cells. Advanced Materials, 2022, 34, e2107420.	21.0	51
26	Direct measurement of a non-Hermitian topological invariant in a hybrid light-matter system. Science Advances, 2021, 7, eabj8905.	10.3	48
27	All-optical switching based on interacting exciton polaritons in self-assembled perovskite microwires. Science Advances, 2021, 7, eabj6627.	10.3	47
28	Exciton binding energy and effective mass of CsPbCl <sub>3</sub> : a magneto-optical study. Photonics Research, 2020, 8, A50.	7.0	43
29	Plasma Oxidized Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene as Electron Transport Layer for Efficient Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2021, 13, 32495-32502.	8.0	41
30	Perovskite Single-Crystal Microarrays for Efficient Photovoltaic Devices. Chemistry of Materials, 2018, 30, 4590-4596.	6.7	33
31	Nonlinear polariton parametric emission in an atomically thin semiconductor based microcavity. Nature Nanotechnology, 2022, 17, 396-402.	31.5	32
32	Low-Dimensional Contact Layers for Enhanced Perovskite Photodiodes. Advanced Functional Materials, 2020, 30, 2001692.	14.9	30
33	Transient circular dichroism and exciton spin dynamics in all-inorganic halide perovskites. Nature Communications, 2020, 11, 5665.	12.8	29
34	Dynamics of exciton energy renormalization in monolayer transition metal disulfides. Nano Research, 2020, 13, 1399-1405.	10.4	27
35	High-Order Shift Current Induced Terahertz Emission from Inorganic Cesium Bromine Lead Perovskite Engendered by Two-Photon Absorption. Advanced Functional Materials, 2019, 29, 1904694.	14.9	26
36	Spontaneously coherent orbital coupling of counterrotating exciton polaritons in annular perovskite microcavities. Light: Science and Applications, 2021, 10, 45.	16.6	26

#	ARTICLE	IF	CITATIONS
37	Nonlinear Parametric Scattering of Exciton Polaritons in Perovskite Microcavities. Nano Letters, 2021, 21, 3120-3126.	9.1	23
38	Green Solution-Bathing Process for Efficient Large-Area Planar Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2020, 12, 24905-24912.	8.0	20
39	Spin-Polarized Electrons Impact on Terahertz Emission by High-Order Shift Current in CsPbBr <sub>3</sub> . Advanced Optical Materials, 2021, 9, 2100822.	7.3	5
40	Recent developments on polariton lasers. Progress in Quantum Electronics, 2022, 83, 100399.	7.0	5
41	Room Temperature Exciton-Polariton Bose-Einstein Condensation in Organic Single-crystal Microribbon Cavities. Chemical Research in Chinese Universities, 2021, 37, 1348-1349.	2.6	0