

Sagar Jain

List of Publications by Year in descending order

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34
papers

1,912
citations

394421

19
h-index

434195

31
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35
all docs

35
docs citations

35
times ranked

3389
citing authors

#	ARTICLE	IF	CITATIONS
1	Development of Dopant-Free Organic Hole Transporting Materials for Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2020, 10, 1903326.	19.5	202
2	Organic photovoltaic cells – promising indoor light harvesters for self-sustainable electronics. <i>Journal of Materials Chemistry A</i> , 2018, 6, 5618-5626.	10.3	189
3	Interface Modification by Ionic Liquid: A Promising Candidate for Indoor Light Harvesting and Stability Improvement of Planar Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2018, 8, 1801509.	19.5	184
4	An effective approach of vapour assisted morphological tailoring for reducing metal defect sites in lead-free, (CH ₃ NH ₃) ₃ Bi ₂ I ₉ bismuth-based perovskite solar cells for improved performance and long-term stability. <i>Nano Energy</i> , 2018, 49, 614-624.	16.0	169
5	Molecular Engineering Using an Anthanthrone Dye for Low-Cost Hole Transport Materials: A Strategy for Dopant-Free, High-Efficiency, and Stable Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2018, 8, 1703007.	19.5	154
6	Resonance Raman and Excitation Energy Dependent Charge Transfer Mechanism in Halide-Substituted Hybrid Perovskite Solar Cells. <i>ACS Nano</i> , 2015, 9, 2088-2101.	14.6	141
7	Green fabrication of stable lead-free bismuth based perovskite solar cells using a non-toxic solvent. <i>Communications Chemistry</i> , 2019, 2, .	4.5	119
8	Pb-Sn-Cu Ternary Organometallic Halide Perovskite Solar Cells. <i>Advanced Materials</i> , 2018, 30, e1800258.	21.0	106
9	Chemical engineering of methylammonium lead iodide/bromide perovskites: tuning of opto-electronic properties and photovoltaic performance. <i>Journal of Materials Chemistry A</i> , 2015, 3, 21760-21771.	10.3	96
10	All-Rounder Low-Cost Dopant-Free Doped Hole-Transporting Materials for Efficient Indoor and Outdoor Performance of Perovskite Solar Cells. <i>Advanced Electronic Materials</i> , 2020, 6, 1900884.	5.1	72
11	Dopant-free novel hole-transporting materials based on quinacridone dye for high-performance and humidity-stable mesoporous perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2019, 7, 5315-5323.	10.3	70
12	Outstanding Indoor Performance of Perovskite Photovoltaic Cells – Effect of Device Architectures and Interlayers. <i>Solar Rrl</i> , 2019, 3, 1800207.	5.8	63
13	CH ₃ NH ₃ PbI ₃ :MoS ₂ heterostructure for stable and efficient inverted perovskite solar cell. <i>Solar Energy</i> , 2020, 195, 436-445.	6.1	42
14	Structural, electronic and catalytic performances of single-atom Fe stabilized by divacancy-nitrogen-doped graphene. <i>RSC Advances</i> , 2017, 7, 7920-7928.	3.6	36
15	Dark electrical bias effects on moisture-induced degradation in inverted lead halide perovskite solar cells measured by using advanced chemical probes. <i>Sustainable Energy and Fuels</i> , 2018, 2, 905-914.	4.9	32
16	Improving the stability of the perovskite solar cells by V ₂ O ₅ modified transport layer film. <i>RSC Advances</i> , 2017, 7, 18456-18465.	3.6	30
17	Efficient and stable perovskite solar cells based on high-quality CH ₃ NH ₃ PbI _{3-x} Cl _x films modified by V ₂ O _x additives. <i>Journal of Materials Chemistry A</i> , 2017, 5, 24282-24291.	10.3	27
18	Development of a multifunctional TiO ₂ /MWCNT hybrid composite grafted on a stainless steel grating. <i>RSC Advances</i> , 2015, 5, 103255-103264.	3.6	24

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19	Solution processed double-decked V2Ox/PEDOT:PSS film serves as the hole transport layer of an inverted planar perovskite solar cell with high performance. RSC Advances, 2017, 7, 26202-26210.	3.6	23
20	The electronic structure and band interface of cesium bismuth iodide on a titania heterostructure using hard X-ray spectroscopy. Journal of Materials Chemistry A, 2018, 6, 9498-9505.	10.3	19
21	Improvement in the performance of inverted planar perovskite solar cells via the CH3NH3PbI3-xClx:ZnO bulk heterojunction. Journal of Power Sources, 2018, 401, 303-311.	7.8	19
22	Ion-migration and carrier-recombination inhibition by the cation- π interaction in planar perovskite solar cells. Organic Electronics, 2019, 75, 105387.	2.6	17
23	Solvent engineering approach via introducing poly (3, 4-ethylene dioxy-thiophene)â€“poly (styrene) Tj ETQq1 1 0.784314 rgBT /Overl efficient inverted planar perovskite solar cells. Solar Energy, 2018, 176, 1-9.	6.1	12
24	Photo-stability study of a solution-processed small molecule solar cell system: correlation between molecular conformation and degradation. Science and Technology of Advanced Materials, 2018, 19, 194-202.	6.1	12
25	Detrimental effect of silver doping in spiro-MeOTAD on the device performance of perovskite solar cells. Organic Electronics, 2019, 69, 343-347.	2.6	12
26	Jet nebulizer-spray coated CZTS film as Pt-free electrocatalyst in photoelectrocatalytic fuel cells. Applied Surface Science, 2019, 463, 994-1000.	6.1	10
27	High-quality perovskite films <i>via</i> post-annealing microwave treatment. New Journal of Chemistry, 2019, 43, 9338-9344.	2.8	10
28	Improved open-circuit voltage via Cs2CO3-Doped TiO2 for high-performance and stable perovskite solar cells. Organic Electronics, 2020, 77, 105495.	2.6	9
29	Improving the Performance of Planar Perovskite Solar Cells through a Preheated, Delayed Annealing Process To Control Nucleation and Phase Transition of Perovskite Films. Crystal Growth and Design, 2019, 19, 4314-4323.	3.0	7
30	Tunable electronic properties and large optical anisotropy in the CsPbXnY3-n (X, Y=Cl, Br, I) perovskite. Solar Energy, 2021, 217, 165-172.	6.1	2
31	Origin of dark electrical bias-induced degradation of inverted methylammonium lead iodide perovskite solar cells. , 0, , .		0
32	Vapour Assisted Morphological Tailoring of Lead-Free Bismuth Based Perovskite Solar Cells for Improved Performance and Stability. , 0, , .		0
33	Nontoxic (CH3NH3)3Bi2I9 Bismuth based perovskite solar cells : Improved device performance and stability through morphological tailoring. , 0, , .		0
34	Effect of Interface Engineering and Origin of High Current in Planar Inverted Perovskite Solar cells. , 0, , .		0