

Teddy Salim

List of Publications by Year in descending order

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Version: 2024-02-01

53
papers

4,188
citations

218677

26
h-index

197818

49
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56
all docs

56
docs citations

56
times ranked

7781
citing authors

#	ARTICLE	IF	CITATIONS
1	Alkali Additives Enable Efficient Large Area (>55 cm ²) Slot-Die Coated Perovskite Solar Modules. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	39
2	Direct growth of single-metal-atom chains. , 2022, 1, 245-253.		16
3	Defect Passivation Using a Phosphonic Acid Surface Modifier for Efficient RP Perovskite Blue-Light-Emitting Diodes. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 34238-34246.	8.0	15
4	Transparent electronic and photoelectric synaptic transistors based on the combination of an InGaZnO channel and a TaO ₂ gate dielectric. <i>Nanoscale</i> , 2022, 14, 10245-10254.	5.6	8
5	Crown ether enabled enhancement of ionic-electronic properties of PEDOT:PSS. <i>Materials Horizons</i> , 2022, 9, 2408-2415.	12.2	8
6	Formation of Corrugated $n = 1$ 2D Tin Iodide Perovskites and Their Use as Lead-Free Solar Absorbers. <i>ACS Nano</i> , 2021, 15, 6395-6409.	14.6	18
7	Dual Role of Cu-Chalcogenide as Hole-Transporting Layer and Interface Passivator for n Architecture Perovskite Solar Cell. <i>Advanced Functional Materials</i> , 2021, 31, 2103807.	14.9	11
8	Dual Role of Cu-Chalcogenide as Hole-Transporting Layer and Interface Passivator for n Architecture Perovskite Solar Cell (<i>Adv. Funct. Mater.</i> 38/2021). <i>Advanced Functional Materials</i> , 2021, 31, 2170282.	14.9	1
9	Controllable Solution-Phase Epitaxial Growth of Q1D Sb ₂ (S,Se) ₃ /CdS Heterojunction Solar Cell with 9.2% Efficiency. <i>Advanced Materials</i> , 2021, 33, e2104346.	21.0	47
10	Synthesis of bismuth sulphoiodide thin films from single precursor solution. <i>Solar Energy</i> , 2021, 230, 714-720.	6.1	7
11	Cubic NaSbS ₂ as an Ionic-Electronic Coupled Semiconductor for Switchable Photovoltaic and Neuromorphic Device Applications. <i>Advanced Materials</i> , 2020, 32, e1906976.	21.0	34
12	White Electroluminescence from Perovskite-Organic Heterojunction. <i>ACS Energy Letters</i> , 2020, 5, 2690-2697.	17.4	21
13	Large Increase in the Dielectric Constant and Partial Loss of Coherence Increases Tunneling Rates across Molecular Wires. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 45111-45121.	8.0	18
14	Stabilizing the Electroluminescence of Halide Perovskites with Potassium Passivation. <i>ACS Energy Letters</i> , 2020, 5, 1804-1813.	17.4	41
15	In Situ Growth of $[hk1]$ -Oriented Sb ₂ S ₃ for Solution-Processed Planar Heterojunction Solar Cell with 6.4% Efficiency. <i>Advanced Functional Materials</i> , 2020, 30, 2002887.	14.9	85
16	Resonant nanostructures for highly confined and ultra-sensitive surface phonon-polaritons. <i>Nature Communications</i> , 2020, 11, 1863.	12.8	39
17	Planar Resonators Supporting Extremely Confined Phonon-Polariton Modes. , 2020, , .		0
18	A facile method to evaluate the influence of trap densities on perovskite solar cell performance. <i>Journal of Materials Chemistry C</i> , 2019, 7, 5646-5651.	5.5	32

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19	Harvesting Triplet Excitons in Lead-Halide Perovskites for Room-Temperature Phosphorescence. <i>Chemistry of Materials</i> , 2019, 31, 2597-2602.	6.7	57
20	Assembly and photochemical properties of mesoporous networks of spinel ferrite nanoparticles for environmental photocatalytic remediation. <i>Applied Catalysis B: Environmental</i> , 2018, 227, 330-339.	20.2	51
21	Structure-controlled optical thermoresponse in Ruddlesden-Popper layered perovskites. <i>APL Materials</i> , 2018, 6, .	5.1	26
22	Molecular engineering of two-dimensional hybrid perovskites with broadband emission for white light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2018, 6, 10301-10307.	5.5	38
23	Mesoporous implantable Pt/SrTiO ₃ :C,N nanocuboids delivering enhanced photocatalytic H ₂ -production activity via plasmon-induced interfacial electron transfer. <i>Applied Catalysis B: Environmental</i> , 2018, 236, 338-347.	20.2	35
24	Efficient Room-Temperature Phosphorescence from Organic-Inorganic Hybrid Perovskites by Molecular Engineering. <i>Advanced Materials</i> , 2018, 30, e1707621.	21.0	126
25	Stable biexcitons in two-dimensional metal-halide perovskites with strong dynamic lattice disorder. <i>Physical Review Materials</i> , 2018, 2, .	2.4	89
26	Phonon features in terahertz photoconductivity spectra due to data analysis artifact: A case study on organometallic halide perovskites. <i>Applied Physics Letters</i> , 2017, 110, .	3.3	21
27	Solution-processed perovskite-kesterite reflective tandem solar cells. <i>Solar Energy</i> , 2017, 155, 35-38.	6.1	16
28	Facile in situ synthesis of stable luminescent organic-inorganic lead halide perovskite nanoparticles in a polymer matrix. <i>Journal of Materials Chemistry C</i> , 2017, 5, 7207-7214.	5.5	26
29	Reflective perovskite solar cells for efficient tandem applications. <i>Journal of Materials Chemistry C</i> , 2017, 5, 134-139.	5.5	27
30	Semiconducting Carbon Nanotubes for Improved Efficiency and Thermal Stability of Polymer-Fullerene Solar Cells. <i>Advanced Functional Materials</i> , 2016, 26, 51-65.	14.9	54
31	Effectiveness of External Electric Field Treatment of Conjugated Polymers in Bulk-Heterojunction Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 32282-32291.	8.0	22
32	Molecularly Engineered Organic-Inorganic Hybrid Perovskite with Multiple Quantum Well Structure for Multicolored Light-Emitting Diodes. <i>Scientific Reports</i> , 2016, 6, 33546.	3.3	95
33	Phonon Mode Transformation Across the Orthorhombic-Tetragonal Phase Transition in a Lead Iodide Perovskite CH ₃ NH ₃ PbI ₃ : A Terahertz Time-Domain Spectroscopy Approach. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 1-6.	4.6	109
34	Elucidating the role of disorder and free-carrier recombination kinetics in CH ₃ NH ₃ PbI ₃ perovskite films. <i>Nature Communications</i> , 2015, 6, 7903.	12.8	132
35	Correlation between blend morphology and recombination dynamics in additive-added P3HT:PCBM solar cells. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 26111-26120.	2.8	15
36	Perovskite-based solar cells: impact of morphology and device architecture on device performance. <i>Journal of Materials Chemistry A</i> , 2015, 3, 8943-8969.	10.3	522

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37	The origin of high efficiency in low-temperature solution-processable bilayer organometal halide hybrid solar cells. <i>Energy and Environmental Science</i> , 2014, 7, 399-407.	30.8	965
38	Quinoxaline-functionalized C ₆₀ derivatives as electron acceptors in organic solar cells. <i>RSC Advances</i> , 2014, 4, 25291-25301.	3.6	23
39	Polymer nanofibers: preserving nanomorphology in ternary blend organic photovoltaics. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 23829-23836.	2.8	9
40	Performance Improvements in Polymer Nanofiber/Fullerene Solar Cells with External Electric Field Treatment. <i>Journal of Physical Chemistry C</i> , 2014, 118, 11285-11291.	3.1	26
41	Synthesis and photovoltaic properties of novel C60 bisadducts based on benzo[2,1,3]-thiadiazole. <i>Tetrahedron</i> , 2014, 70, 6217-6221.	1.9	22
42	From benzobisthiadiazole, thiadiazoloquinoxaline to pyrazinoquinoxaline based polymers: effects of aromatic substituents on the performance of organic photovoltaics. <i>Journal of Materials Chemistry</i> , 2012, 22, 18528.	6.7	30
43	Carrier Dynamics in Polymer Nanofiber:Fullerene Solar Cells. <i>Journal of Physical Chemistry C</i> , 2012, 116, 18015-18022.	3.1	25
44	Conjugated polymers based on dicarboxylic imide- ϵ -substituted isothianaphthene and their applications in solar cells. <i>Journal of Polymer Science Part A</i> , 2012, 50, 250-260.	2.3	19
45	Solvent additives and their effects on blend morphologies of bulk heterojunctions. <i>Journal of Materials Chemistry</i> , 2011, 21, 242-250.	6.7	127
46	A new insight into controlling poly(3-hexylthiophene) nanofiber growth through a mixed-solvent approach for organic photovoltaics applications. <i>Journal of Materials Chemistry</i> , 2011, 21, 377-386.	6.7	138
47	Printable photo-supercapacitor using single-walled carbon nanotubes. <i>Energy and Environmental Science</i> , 2011, 4, 413-416.	30.8	188
48	Solution-Processed Nanocrystalline TiO ₂ Buffer Layer Used for Improving the Performance of Organic Photovoltaics. <i>ACS Applied Materials & Interfaces</i> , 2011, 3, 1063-1067.	8.0	40
49	The Role of Poly(3-hexylthiophene) Nanofibers in an All-Polymer Blend with a Polyfluorene Copolymer for Solar Cell Applications. <i>Journal of Physical Chemistry C</i> , 2010, 114, 9459-9468.	3.1	100
50	Organic Photovoltaic Devices Using Highly Flexible Reduced Graphene Oxide Films as Transparent Electrodes. <i>ACS Nano</i> , 2010, 4, 5263-5268.	14.6	566
51	Ammonium sulfate treatment at TiO ₂ /perovskite interface boosts operational stability of perovskite solar cells. <i>Journal of Materials Chemistry C</i> , 0, , .	5.5	0
52	White Electroluminescence from Perovskite-Organic Heterojunction. , 0, , .		0
53	Highly Durable Pt-Ru-Doped Ce _{0.9} Zr _{0.1} O ₂ as an Effective Dual Catalyst for Low-Temperature Simultaneous Propane and Carbon Monoxide Oxidation. <i>Journal of Physical Chemistry C</i> , 0, , .	3.1	0