Teddy Salim

List of Publications by Year
in descending order

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53 papers	4,188 citations	218381 26 h-index	197535 49 g-index
56 all docs	56 docs citations	56 times ranked	7781 citing authors

#	Article	IF	Citations
1	The origin of high efficiency in low-temperature solution-processable bilayer organometal halide hybrid solar cells. Energy and Environmental Science, 2014, 7, 399-407.	15.6	965
2	Organic Photovoltaic Devices Using Highly Flexible Reduced Graphene Oxide Films as Transparent Electrodes. ACS Nano, 2010, 4, 5263-5268.	7.3	566
3	Perovskite-based solar cells: impact of morphology and device architecture on device performance. Journal of Materials Chemistry A, 2015, 3, 8943-8969.	5.2	522
4	Printable photo-supercapacitor using single-walled carbon nanotubes. Energy and Environmental Science, 2011, 4, 413-416.	15.6	188
5	A new insight into controlling poly(3-hexylthiophene) nanofiber growth through a mixed-solvent approach for organic photovoltaics applications. Journal of Materials Chemistry, 2011, 21, 377-386.	6.7	138
6	Elucidating the role of disorder and free-carrier recombination kinetics in CH3NH3PbI3 perovskite films. Nature Communications, 2015, 6, 7903.	5.8	132
7	Solvent additives and their effects on blend morphologies of bulk heterojunctions. Journal of Materials Chemistry, 2011, 21, 242-250.	6.7	127
8	Efficient Roomâ€Temperature Phosphorescence from Organicâ€“Inorganic Hybrid Perovskites by Molecular Engineering. Advanced Materials, 2018, 30, e1707621.	11.1	126
9	Phonon Mode Transformation Across the Orthohombicâ€“Tetragonal Phase Transition in a Lead Iodide Perovskite CH₃NH₃PbI₃: A Terahertz Time-Domain Spectroscopy Approach. Journal of Physical Chemistry Letters, 2016, 7, 1-6.	2.1	109
10	The Role of Poly(3-hexylthiophene) Nanofibers in an All-Polymer Blend with a Polyfluorene Copolymer for Solar Cell Applications. Journal of Physical Chemistry C, 2010, 114, 9459-9468.	1.5	100
11	Molecularly Engineered Organic-Inorganic Hybrid Perovskite with Multiple Quantum Well Structure for Multicolored Light-Emitting Diodes. Scientific Reports, 2016, 6, 33546.	1.6	95
12	Stable biexcitons in two-dimensional metal-halide perovskites with strong dynamic lattice disorder. Physical Review Materials, 2018, 2, .	0.9	89
13	In Situ Growth of [hk1]â€Oriented Sb₂S₃ for Solutionâ€Processed Planar Heterojunction Solar Cell with 6.4% Efficiency. Advanced Functional Materials, 2020, 30, 2002887.	7.8	85
14	Harvesting Triplet Excitons in Lead-Halide Perovskites for Room-Temperature Phosphorescence. Chemistry of Materials, 2019, 31, 2597-2602.	3.2	57
15	Semiconducting Carbon Nanotubes for Improved Efficiency and Thermal Stability of Polymerâ€“Fullerene Solar Cells. Advanced Functional Materials, 2016, 26, 51-65.	7.8	54
16	Assembly and photochemical properties of mesoporous networks of spinel ferrite nanoparticles for environmental photocatalytic remediation. Applied Catalysis B: Environmental, 2018, 227, 330-339.	10.8	51
17	Controllable Solutionâ€Phase Epitaxial Growth of Q1D Sb₂(S,Se)₃/CdS Heterojunction Solar Cell with 9.2% Efficiency. Advanced Materials, 2021, 33, e2104346.	11.1	47
18	Stabilizing the Electroluminescence of Halide Perovskites with Potassium Passivation. ACS Energy Letters, 2020, 5, 1804-1813.	8.8	41

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19	Solution-Processed Nanocrystalline TiO₂ Buffer Layer Used for Improving the Performance of Organic Photovoltaics. ACS Applied Materials & Interfaces, 2011, 3, 1063-1067.	4.0	40
20	Resonant nanostructures for highly confined and ultra-sensitive surface phonon-polaritons. Nature Communications, 2020, 11, 1863.	5.8	39
21	Alkali Additives Enable Efficient Large Area (>55 cm²) Slotâ€Die Coated Perovskite Solar Modules. Advanced Functional Materials, 2022, 32, .	7.8	39
22	Molecular engineering of two-dimensional hybrid perovskites with broadband emission for white light-emitting diodes. Journal of Materials Chemistry C, 2018, 6, 10301-10307.	2.7	38
23	Mesoporous implantable Pt/SrTiO3:C,N nanocuboids delivering enhanced photocatalytic H2-production activity via plasmon-induced interfacial electron transfer. Applied Catalysis B: Environmental, 2018, 236, 338-347.	10.8	35
24	Cubic NaSbS₂ as an Ionicâ€“Electronic Coupled Semiconductor for Switchable Photovoltaic and Neuromorphic Device Applications. Advanced Materials, 2020, 32, e1906976.	11.1	34
25	A facile method to evaluate the influence of trap densities on perovskite solar cell performance. Journal of Materials Chemistry C, 2019, 7, 5646-5651.	2.7	32
26	From benzobisthiadiazole, thiadiazoloquinoxaline to pyrazinoquinoxaline based polymers: effects of aromatic substituents on the performance of organic photovoltaics. Journal of Materials Chemistry, 2012, 22, 18528.	6.7	30
27	Reflective perovskite solar cells for efficient tandem applications. Journal of Materials Chemistry C, 2017, 5, 134-139.	2.7	27
28	Performance Improvements in Polymer Nanofiber/Fullerene Solar Cells with External Electric Field Treatment. Journal of Physical Chemistry C, 2014, 118, 11285-11291.	1.5	26
29	Facile in situ synthesis of stable luminescent organicâ€“inorganic lead halide perovskite nanoparticles in a polymer matrix. Journal of Materials Chemistry C, 2017, 5, 7207-7214.	2.7	26
30	Structure-controlled optical thermoresponse in Ruddlesden-Popper layered perovskites. APL Materials, 2018, 6, .	2.2	26
31	Carrier Dynamics in Polymer Nanofiber:Fullerene Solar Cells. Journal of Physical Chemistry C, 2012, 116, 18015-18022.	1.5	25
32	Quinoxaline-functionalized C₆₀ derivatives as electron acceptors in organic solar cells. RSC Advances, 2014, 4, 25291-25301.	1.7	23
33	Synthesis and photovoltaic properties of novel C60 bisadducts based on benzo[2,1,3]-thiadiazole. Tetrahedron, 2014, 70, 6217-6221.	1.0	22
34	Effectiveness of External Electric Field Treatment of Conjugated Polymers in Bulk-Heterojunction Solar Cells. ACS Applied Materials & Interfaces, 2016, 8, 32282-32291.	4.0	22
35	Phonon features in terahertz photoconductivity spectra due to data analysis artifact: A case study on organometallic halide perovskites. Applied Physics Letters, 2017, 110, .	1.5	21
36	White Electroluminescence from Perovskiteâ€“Organic Heterojunction. ACS Energy Letters, 2020, 5, 2690-2697.	8.8	21

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37	Conjugated polymers based on dicarboxylic imideâ€substituted isothianaphthene and their applications in solar cells. Journal of Polymer Science Part A, 2012, 50, 250-260.	2.5	19
38	Large Increase in the Dielectric Constant and Partial Loss of Coherence Increases Tunneling Rates across Molecular Wires. ACS Applied Materials & Interfaces, 2020, 12, 45111-45121.	4.0	18
39	Formation of Corrugated n = 1 2D Tin Iodide Perovskites and Their Use as Lead-Free Solar Absorbers. ACS Nano, 2021, 15, 6395-6409.	7.3	18
40	Solution-processed perovskite-kesterite reflective tandem solar cells. Solar Energy, 2017, 155, 35-38.	2.9	16
41	Direct growth of single-metal-atom chains. , 2022, 1, 245-253.		16
42	Correlation between blend morphology and recombination dynamics in additive-added P3HT:PCBM solar cells. Physical Chemistry Chemical Physics, 2015, 17, 26111-26120.	1.3	15
43	Defect Passivation Using a Phosphonic Acid Surface Modifier for Efficient RP Perovskite Blue-Light-Emitting Diodes. ACS Applied Materials & Interfaces, 2022, 14, 34238-34246.	4.0	15
44	Dual Role of Cuâ€Chalcogenide as Holeâ€Transporting Layer and Interface Passivator for pâ€“iâ€“n Architecture Perovskite Solar Cell. Advanced Functional Materials, 2021, 31, 2103807.	7.8	11
45	Polymer nanofibers: preserving nanomorphology in ternary blend organic photovoltaics. Physical Chemistry Chemical Physics, 2014, 16, 23829-23836.	1.3	9
46	Transparent electronic and photoelectric synaptic transistors based on the combination of an InGaZnO channel and a TaO_x gate dielectric. Nanoscale, 2022, 14, 10245-10254.	2.8	8
47	Crown ether enabled enhancement of ionicâ€“electronic properties of PEDOT:PSS. Materials Horizons, 2022, 9, 2408-2415.	6.4	8
48	Synthesis of bismuth sulphoiodide thin films from single precursor solution. Solar Energy, 2021, 230, 714-720.	2.9	7
49	Dual Role of Cuâ€Chalcogenide as Holeâ€Transporting Layer and Interface Passivator for pâ€“iâ€“n Architecture Perovskite Solar Cell (Adv. Funct. Mater. 38/2021). Advanced Functional Materials, 2021, 31, 2170282.	7.8	1
50	Ammonium sulfate treatment at TiO2/perovskite interface boosts operational stability of perovskite solar cells. Journal of Materials Chemistry C, 0, , .	2.7	0
51	Planar Resonators Supporting Extremely Confined Phonon-Polariton Modes. , 2020, , .		0
52	White Electroluminescence from Perovskiteâ€“Organic Heterojunction. , 0, , .		0
53	Highly Durable Ptâ€“Ru-Doped Ce_{0.9}Zr_{0.1}O₂ as an Effective Dual Catalyst for Low-Temperature Simultaneous Propane and Carbon Monoxide Oxidation. Journal of Physical Chemistry C, 0, , .	1.5	0