Teresa S Ripolles

List of Publications by Year
in descending order

39 papers	2,309 citations	236612 25 h-index	360668 35 g-index
39 all docs	39 docs citations	39 times ranked	4384 citing authors

#	Article	IF	Citations
1	Enhanced efficiency and stability in Sn-based perovskite solar cells by trimethylsilyl halide surface passivation. Journal of Energy Chemistry, 2022, 71, 604-611.	7.1	19
2	Enhancing the Electronic Properties and Stability of High-Efficiency Tinâ€"Lead Mixed Halide Perovskite Solar Cells via Doping Engineering. Journal of Physical Chemistry Letters, 2022, 13, 3130-3137.	2.1	12
3	High-Efficiency Lead-Free Wide Band Gap Perovskite Solar Cells via Guanidinium Bromide Incorporation. ACS Applied Energy Materials, 2021, 4, 5615-5624.	2.5	19
4	Large Grain Growth and Energy Alignment Optimization by Diethylammonium Iodide Substitution at A Site in Leadâ€Free Tin Halide Perovskite Solar Cells. Solar Rrl, 2021, 5, 2100633.	3.1	14
5	Effect of Pristine Graphene on Methylammonium Lead Iodide Films and Implications on Solar Cell Performance. ACS Applied Energy Materials, 2021, 4, 13943-13951.	2.5	7
6	Enhanced stability and efficiency in inverted perovskite solar cells through graphene doping of PEDOT:PSS hole transport layer. Materials and Design, 2020, 191, 108587.	3.3	43
7	Enhanced Nonlinear Optical Coefficients of MAPbI3 Thin Films by Bismuth Doping. Journal of Physical Chemistry Letters, 2020, 11, 2188-2194.	2.1	15
8	Ultrafast selective extraction of hot holes from cesium lead iodide perovskite films. Journal of Energy Chemistry, 2018, 27, 1170-1174.	7.1	23
9	Tunable Open Circuit Voltage by Engineering Inorganic Cesium Lead Bromide/Iodide Perovskite Solar Cells. Scientific Reports, 2018, 8, 2482.	1.6	62
10	Ultrafast Electron Injection from Photoexcited Perovskite CsPbI₃ QDs into TiO₂ Nanoparticles with Injection Efficiency near 99%. Journal of Physical Chemistry Letters, 2018, 9, 294-297.	2.1	75
11	Highly Efficient 17.6% Tinâ€"Lead Mixed Perovskite Solar Cells Realized through Spike Structure. Nano Letters, 2018, 18, 3600-3607.	4.5	114
12	New Tin(II) Fluoride Derivative as a Precursor for Enhancing the Efficiency of Inverted Planar Tin/Lead Perovskite Solar Cells. Journal of Physical Chemistry C, 2018, 122, 27284-27291.	1.5	26
13	Annealing effects on CsPbI₃-based planar heterojunction perovskite solar cells formed by vacuum deposition method. Japanese Journal of Applied Physics, 2017, 56, 04CS11.	0.8	35
14	Colloidal Synthesis of Air-Stable Alloyed CsSn_{1â€"<i>x</i>}Pb_{<i>x</i>}I₃ Perovskite Nanocrystals for Use in Solar Cells. Journal of the American Chemical Society, 2017, 139, 16708-16719.	6.6	314
15	Slow hot carrier cooling in cesium lead iodide perovskites. Applied Physics Letters, 2017, 111, .	1.5	56
16	Improved Reproducibility and Intercalation Control of Efficient Planar Inorganic Perovskite Solar Cells by Simple Alternate Vacuum Deposition of PbI₂ and CsI. ACS Omega, 2017, 2, 4464-4469.	1.6	49
17	Near IR sensitive Sn based perovskite solar cells with high current density reaching 30mA/cm². , 2016, , .		1
18	Mechanisms of charge accumulation in the dark operation of perovskite solar cells. Physical Chemistry Chemical Physics, 2016, 18, 14970-14975.	1.3	11

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19	Architecture of the Interface between the Perovskite and Holeâ€Transport Layers in Perovskite Solar Cells. ChemSusChem, 2016, 9, 2634-2639.	3.6	27
20	Facile Synthesis and Characterization of Sulfur Doped Low Bandgap Bismuth Based Perovskites by Soluble Precursor Route. Chemistry of Materials, 2016, 28, 6436-6440.	3.2	87
21	Efficiency enhancement by changing perovskite crystal phase and adding a charge extraction interlayer in organic amine free-perovskite solar cells based on cesium. Solar Energy Materials and Solar Cells, 2016, 144, 532-536.	3.0	79
22	Infrared light sensitive Sn/Pb binary perovskite solar cells with improved stability in air and organic amine-free perovskite solar cells with improved stability against light exposure. , 2015, , .		2
23	Shelf Life Degradation of Bulk Heterojunction Solar Cells: Intrinsic Evolution of Charge Transfer Complex. Advanced Energy Materials, 2015, 5, 1401997.	10.2	32
24	Nanoscale mapping by electron energy-loss spectroscopy reveals evolution of organic solar cell contact selectivity. Organic Electronics, 2015, 16, 227-233.	1.4	25
25	Recombination Study of Combined Halides (Cl, Br, I) Perovskite Solar Cells. Journal of Physical Chemistry Letters, 2014, 5, 1628-1635.	2.1	384
26	Substitution of a hydroxamic acid anchor into the MK-2 dye for enhanced photovoltaic performance and water stability in a DSSC. Physical Chemistry Chemical Physics, 2014, 16, 16629-16641.	1.3	53
27	Polymer defect states modulate open-circuit voltage in bulk-heterojunction solar cells. Applied Physics Letters, 2013, 103, 243306.	1.5	40
28	Electrodeposited NiO anode interlayers: Enhancement of the charge carrier selectivity in organic solar cells. Solar Energy Materials and Solar Cells, 2013, 117, 564-568.	3.0	32
29	Molecular Electronic Coupling Controls Charge Recombination Kinetics in Organic Solar Cells of Low Bandgap Diketopyrrolopyrrole, Carbazole, and Thiophene Polymers. Journal of Physical Chemistry C, 2013, 117, 8719-8726.	1.5	13
30	Interplay between Fullerene Surface Coverage and Contact Selectivity of Cathode Interfaces in Organic Solar Cells. ACS Nano, 2013, 7, 4637-4646.	7.3	72
31	Design and characterization of alkoxy-wrapped pushâ€"pull porphyrins for dye-sensitized solar cells. Chemical Communications, 2012, 48, 4368.	2.2	108
32	Diffusion-Recombination Determines Collected Current and Voltage in Polymer:Fullerene Solar Cells. Journal of Physical Chemistry C, 2012, 116, 16925-16933.	1.5	46
33	How the Charge-Neutrality Level of Interface States Controls Energy Level Alignment in Cathode Contacts of Organic Bulk-Heterojunction Solar Cells. ACS Nano, 2012, 6, 3453-3460.	7.3	113
34	Series resistance in organic bulk-heterojunction solar devices: Modulating carrier transport with fullerene electron traps. Organic Electronics, 2012, 13, 2326-2332.	1.4	60
35	Oxygen doping-induced photogeneration loss in P3HT:PCBM solar cells. Solar Energy Materials and Solar Cells, 2012, 100, 185-191.	3.0	82
36	Origin of efficiency enhancement in Nb2O5 coated titanium dioxide nanorod based dye sensitized solar cells. Energy and Environmental Science, 2011, 4, 3414.	15.6	75

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37	Porphyrin Dyes with High Injection and Low Recombination for Highly Efficient Mesoscopic Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2011, 115, 10898-10902.	1.5	79
38	Relationship between Relative Lattice Strain and Efficiency for Sn-Perovskite Solar Cells. , 0, , .		0
39	Interface Engineering in Perovskite Solar Cells by low concentration of PEAI solution in the antisolvent step. Energy Technology, 0, , .	1.8	5