

Teresa S Ripolles

List of Publications by Year in descending order

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papers

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236925
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docs citations

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times ranked

4384
citing authors

#	ARTICLE	IF	CITATIONS
1	Recombination Study of Combined Halides (Cl, Br, I) Perovskite Solar Cells. Journal of Physical Chemistry Letters, 2014, 5, 1628-1635.	4.6	384
2	Colloidal Synthesis of Air-Stable Alloyed CsSn _{1-x} Pb _x I ₃ Perovskite Nanocrystals for Use in Solar Cells. Journal of the American Chemical Society, 2017, 139, 16708-16719.	13.7	314
3	Highly Efficient 17.6% Tin-Lead Mixed Perovskite Solar Cells Realized through Spike Structure. Nano Letters, 2018, 18, 3600-3607.	9.1	114
4	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.	14.6	113
5	Design and characterization of alkoxy-wrapped push-pull porphyrins for dye-sensitized solar cells. Chemical Communications, 2012, 48, 4368.	4.1	108
6	Facile Synthesis and Characterization of Sulfur Doped Low Bandgap Bismuth Based Perovskites by Soluble Precursor Route. Chemistry of Materials, 2016, 28, 6436-6440.	6.7	87
7	Oxygen doping-induced photogeneration loss in P3HT:PCBM solar cells. Solar Energy Materials and Solar Cells, 2012, 100, 185-191.	6.2	82
8	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.	3.1	79
9	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.	6.2	79
10	Origin of efficiency enhancement in Nb ₂ O ₅ coated titanium dioxide nanorod based dye sensitized solar cells. Energy and Environmental Science, 2011, 4, 3414.	30.8	75
11	Ultrafast Electron Injection from Photoexcited Perovskite CsPbI ₃ QDs into TiO ₂ Nanoparticles with Injection Efficiency near 99%. Journal of Physical Chemistry Letters, 2018, 9, 294-297.	4.6	75
12	Interplay between Fullerene Surface Coverage and Contact Selectivity of Cathode Interfaces in Organic Solar Cells. ACS Nano, 2013, 7, 4637-4646.	14.6	72
13	Tunable Open Circuit Voltage by Engineering Inorganic Cesium Lead Bromide/Iodide Perovskite Solar Cells. Scientific Reports, 2018, 8, 2482.	3.3	62
14	Series resistance in organic bulk-heterojunction solar devices: Modulating carrier transport with fullerene electron traps. Organic Electronics, 2012, 13, 2326-2332.	2.6	60
15	Slow hot carrier cooling in cesium lead iodide perovskites. Applied Physics Letters, 2017, 111, .	3.3	56
16	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.	2.8	53
17	Improved Reproducibility and Intercalation Control of Efficient Planar Inorganic Perovskite Solar Cells by Simple Alternate Vacuum Deposition of PbI ₂ and CsI. ACS Omega, 2017, 2, 4464-4469.	3.5	49
18	Diffusion-Recombination Determines Collected Current and Voltage in Polymer:Fullerene Solar Cells. Journal of Physical Chemistry C, 2012, 116, 16925-16933.	3.1	46

#	ARTICLE	IF	CITATIONS
19	Enhanced stability and efficiency in inverted perovskite solar cells through graphene doping of PEDOT:PSS hole transport layer. <i>Materials and Design</i> , 2020, 191, 108587.	7.0	43
20	Polymer defect states modulate open-circuit voltage in bulk-heterojunction solar cells. <i>Applied Physics Letters</i> , 2013, 103, 243306.	3.3	40
21	Annealing effects on CsPbI ₃ -based planar heterojunction perovskite solar cells formed by vacuum deposition method. <i>Japanese Journal of Applied Physics</i> , 2017, 56, 04CS11.	1.5	35
22	Electrodeposited NiO anode interlayers: Enhancement of the charge carrier selectivity in organic solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2013, 117, 564-568.	6.2	32
23	Shelf Life Degradation of Bulk Heterojunction Solar Cells: Intrinsic Evolution of Charge Transfer Complex. <i>Advanced Energy Materials</i> , 2015, 5, 1401997.	19.5	32
24	Architecture of the Interface between the Perovskite and Hole-Transport Layers in Perovskite Solar Cells. <i>ChemSusChem</i> , 2016, 9, 2634-2639.	6.8	27
25	New Tin(II) Fluoride Derivative as a Precursor for Enhancing the Efficiency of Inverted Planar Tin/Lead Perovskite Solar Cells. <i>Journal of Physical Chemistry C</i> , 2018, 122, 27284-27291.	3.1	26
26	Nanoscale mapping by electron energy-loss spectroscopy reveals evolution of organic solar cell contact selectivity. <i>Organic Electronics</i> , 2015, 16, 227-233.	2.6	25
27	Ultrafast selective extraction of hot holes from cesium lead iodide perovskite films. <i>Journal of Energy Chemistry</i> , 2018, 27, 1170-1174.	12.9	23
28	High-Efficiency Lead-Free Wide Band Gap Perovskite Solar Cells via Guanidinium Bromide Incorporation. <i>ACS Applied Energy Materials</i> , 2021, 4, 5615-5624.	5.1	19
29	Enhanced efficiency and stability in Sn-based perovskite solar cells by trimethylsilyl halide surface passivation. <i>Journal of Energy Chemistry</i> , 2022, 71, 604-611.	12.9	19
30	Enhanced Nonlinear Optical Coefficients of MAPbI ₃ Thin Films by Bismuth Doping. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 2188-2194.	4.6	15
31	Large Grain Growth and Energy Alignment Optimization by Diethylammonium Iodide Substitution at A Site in Lead-Free Tin Halide Perovskite Solar Cells. <i>Solar Rrl</i> , 2021, 5, 2100633.	5.8	14
32	Molecular Electronic Coupling Controls Charge Recombination Kinetics in Organic Solar Cells of Low Bandgap Diketopyrrolopyrrole, Carbazole, and Thiophene Polymers. <i>Journal of Physical Chemistry C</i> , 2013, 117, 8719-8726.	3.1	13
33	Enhancing the Electronic Properties and Stability of High-Efficiency Tin-Lead Mixed Halide Perovskite Solar Cells via Doping Engineering. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 3130-3137.	4.6	12
34	Mechanisms of charge accumulation in the dark operation of perovskite solar cells. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 14970-14975.	2.8	11
35	Effect of Pristine Graphene on Methylammonium Lead Iodide Films and Implications on Solar Cell Performance. <i>ACS Applied Energy Materials</i> , 2021, 4, 13943-13951.	5.1	7
36	Interface Engineering in Perovskite Solar Cells by low concentration of PEAI solution in the antisolvent step. <i>Energy Technology</i> , 0, , .	3.8	5

#	ARTICLE	IF	CITATIONS
37	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
38	Near IR sensitive Sn based perovskite solar cells with high current density reaching 30mA/cm ² . , 2016, , .		1
39	Relationship between Relative Lattice Strain and Efficiency for Sn-Perovskite Solar Cells. , 0, , .		0