Pablo Docampo

List of Publications by Year
in descending order

93 papers	17,954 citations	44069 48 h-index	53230 85 g-index
97 all docs	97 docs citations	97 times ranked	17668 citing authors

#	Article	IF	Citations
1	Synthesis of SOT-OH and its application as a building block for the synthesis of new dimeric and trimeric Spiro-OMeTAD materials. Molecular Systems Design and Engineering, 2022, 7, 899-905.	3.4	1
2	Layered Perovskites in Solar Cells: Structure, Optoelectronic Properties, and Device Design. Advanced Energy Materials, 2021, 11, 2003877.	19.5	49
3	Wide-Band-Gap Metal-Free Perovskite for Third-Order Nonlinear Optics. ACS Photonics, 2021, 8, 2450-2458.	6.6	15
4	Local Disorder at the Phase Transition Interrupts Ambipolar Charge Carrier Transport in Large Crystal Methylammonium Lead Iodide Thin Films. Journal of Physical Chemistry C, 2020, 124, 20757-20764.	3.1	0
5	A general approach for hysteresis-free, operationally stable metal halide perovskite field-effect transistors. Science Advances, 2020, 6, eaaz4948.	10.3	129
6	SPICE Modeling and Characterization of Filament Formation Perovskite Memristors. , 2020, , .		0
7	Temperature-Dependent Ambipolar Charge Carrier Mobility in Large-Crystal Hybrid Halide Perovskite Thin Films. ACS Applied Materials & Interfaces, 2019, 11, 20838-20844.	8.0	49
8	Ionic-to-electronic current amplification in hybrid perovskite solar cells: ionically gated transistor-interface circuit model explains hysteresis and impedance of mixed conducting devices. Energy and Environmental Science, 2019, 12, 1296-1308.	30.8	146
9	Universal Nanoparticle Wetting Agent for Upscaling Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2019, 11, 12948-12957.	8.0	22
10	Temperature-dependent studies of exciton binding energy and phase-transition suppression in (Cs,FA,MA)Pb(I,Br)3 perovskites. APL Materials, 2019, 7, .	5.1	73
11	Shedding Light on the Moisture Stability of 3D/2D Hybrid Perovskite Heterojunction Thin Films. ACS Applied Energy Materials, 2019, 2, 1011-1018.	5.1	56
12	Perovskite solar cells with a hybrid electrode structure. AIP Advances, 2019, 9, 125037.	1.3	16
13	Progress and challenges in perovskite photovoltaics from single- to multi-junction cells. Materials Today Energy, 2019, 12, 70-94.	4.7	67
14	Single-crystal-like optoelectronic-properties of MAPbI₃ perovskite polycrystalline thin films. Journal of Materials Chemistry A, 2018, 6, 4822-4828.	10.3	46
15	Grain Boundaries Act as Solid Walls for Charge Carrier Diffusion in Large Crystal MAPI Thin Films. ACS Applied Materials & Interfaces, 2018, 10, 7974-7981.	8.0	40
16	Understanding the Role of Cesium and Rubidium Additives in Perovskite Solar Cells: Trap States, Charge Transport, and Recombination. Advanced Energy Materials, 2018, 8, 1703057.	19.5	184
17	Influence of Fermi Level Alignment with Tin Oxide on the Hysteresis of Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2018, 10, 11414-11419.	8.0	79
18	The Bandgap as a Moving Target: Reversible Bandgap Instabilities in Multiple-Cation Mixed-Halide Perovskite Solar Cells. ACS Energy Letters, 2018, 3, 2995-3001.	17.4	24

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19	Temperature-Dependent Electromodulation Spectroscopy of Excitons in Perovskite Solar Cells. , 2018, , .		0
20	Preface: Two dimensional (2D) hybrid organic-inorganic perovskites. APL Materials, 2018, 6, .	5.1	0
21	New Generation Hole Transporting Materials for Perovskite Solar Cells: Amideâ€Based Smallâ€Molecules with Nonconjugated Backbones. Advanced Energy Materials, 2018, 8, 1801605.	19.5	78
22	Identifying and controlling phase purity in 2D hybrid perovskite thin films. Journal of Materials Chemistry A, 2018, 6, 22215-22225.	10.3	59
23	Hydrazone-based hole transporting material prepared <i>via</i> condensation chemistry as alternative for cross-coupling chemistry for perovskite solar cells. Molecular Systems Design and Engineering, 2018, 3, 734-740.	3.4	19
24	Light-emitting electrochemical cells based on inorganic metal halide perovskite nanocrystals. Journal Physics D: Applied Physics, 2018, 51, 334001.	2.8	32
25	Charge Transfer from Methylammonium Lead Iodide Perovskite to Organic Transport Materials: Efficiencies, Transfer Rates, and Interfacial Recombination. Advanced Energy Materials, 2017, 7, 1602349.	19.5	101
26	Unveiling the Dynamic Processes in Hybrid Lead Bromide Perovskite Nanoparticle Thin Film Devices. Advanced Energy Materials, 2017, 7, 1602283.	19.5	47
27	Understanding charge transport in lead iodide perovskite thin-film field-effect transistors. Science Advances, 2017, 3, e1601935.	10.3	354
28	Controlling crystal growth by chloride-assisted synthesis: Towards optimized charge transport in hybrid halide perovskites. Solar Energy Materials and Solar Cells, 2017, 166, 269-275.	6.2	8
29	Synthesis of Hybrid Tin Halide Perovskite Solar Cells with Less Hazardous Solvents: Methanol and 1,4â€Dioxane. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2017, 643, 1704-1711.	1.2	19
30	Charge Transport Limitations in Perovskite Solar Cells: The Effect of Charge Extraction Layers. ACS Applied Materials & Interfaces, 2017, 9, 37655-37661.	8.0	30
31	Perovskite Solar Cells: Capturing the Sun: A Review of the Challenges and Perspectives of Perovskite Solar Cells (Adv. Energy Mater. 16/2017). Advanced Energy Materials, 2017, 7, .	19.5	3
32	Impact of Rubidium and Cesium Cations on the Moisture Stability of Multiple-Cation Mixed-Halide Perovskites. ACS Energy Letters, 2017, 2, 2212-2218.	17.4	167
33	Highly stable, phase pure Cs₂AgBiBr₆ double perovskite thin films for optoelectronic applications. Journal of Materials Chemistry A, 2017, 5, 19972-19981.	10.3	509
34	Perovskite Nanoparticles: Unveiling the Dynamic Processes in Hybrid Lead Bromide Perovskite Nanoparticle Thin Film Devices (Adv. Energy Mater. 15/2017). Advanced Energy Materials, 2017, 7, .	19.5	1
35	Quantum Dot Based Light-Emitting Electrochemical Cells. , 2017, , 351-371.		1
36	Design rules for the preparation of low-cost hole transporting materials for perovskite solar cells with moisture barrier properties. Journal of Materials Chemistry A, 2017, 5, 25200-25210.	10.3	49

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37	Capturing the Sun: A Review of the Challenges and Perspectives of Perovskite Solar Cells. Advanced Energy Materials, 2017, 7, 1700264.	19.5	295
38	Highly Efficient Reproducible Perovskite Solar Cells Prepared by Low-Temperature Processing. Molecules, 2016, 21, 542.	3.8	18
39	Control of Perovskite Crystal Growth by Methylammonium Lead Chloride Templating. Chemistry - an Asian Journal, 2016, 11, 1199-1204.	3.3	28
40	Hybrid Perovskite/Perovskite Heterojunction Solar Cells. ACS Nano, 2016, 10, 5999-6007.	14.6	276
41	Synthesis of Perfectly Oriented and Micrometer-Sized MAPbBr₃ Perovskite Crystals for Thin-Film Photovoltaic Applications. ACS Energy Letters, 2016, 1, 150-154.	17.4	103
42	Recycling Perovskite Solar Cells To Avoid Lead Waste. ACS Applied Materials & Interfaces, 2016, 8, 12881-12886.	8.0	176
43	Highly Luminescent Cesium Lead Halide Perovskite Nanocrystals with Tunable Composition and Thickness by Ultrasonication. Angewandte Chemie - International Edition, 2016, 55, 13887-13892.	13.8	615
44	Starke Lumineszenz in Nanokristallen aus Caesiumbleihalogenidâ€•Perowskit mit durchstimmbarer Zusammensetzung und Dicke mittels Ultraschalldispersion. Angewandte Chemie, 2016, 128, 14091-14096.	2.0	54
45	Toward Tailored Film Morphologies: The Origin of Crystal Orientation in Hybrid Perovskite Thin Films. Advanced Materials Interfaces, 2016, 3, 1600403.	3.7	67
46	The Influence of Water Vapor on the Stability and Processing of Hybrid Perovskite Solar Cells Made from Nonâ€•Stoichiometric Precursor Mixtures. ChemSusChem, 2016, 9, 2699-2707.	6.8	77
47	A Long-Term View on Perovskite Optoelectronics. Accounts of Chemical Research, 2016, 49, 339-346.	15.6	189
48	Contactless Visualization of Fast Charge Carrier Diffusion in Hybrid Halide Perovskite Thin Films. ACS Photonics, 2016, 3, 255-261.	6.6	26
49	Passivation of PbS Quantum Dot Surface with <scp>l</scp>-Glutathione in Solid-State Quantum-Dot-Sensitized Solar Cells. ACS Applied Materials & Interfaces, 2016, 8, 4600-4607.	8.0	22
50	Chapter 2. Towards Optimum Solution-processed Planar Heterojunction Perovskite Solar Cells. RSC Energy and Environment Series, 2016, , 32-56.	0.5	5
51	Blue-Green Color Tunable Solution Processable Organolead Chlorideâ€“Bromide Mixed Halide Perovskites for Optoelectronic Applications. Nano Letters, 2015, 15, 6095-6101.	9.1	461
52	Light-Emitting Electrochemical Cells Based on Hybrid Lead Halide Perovskite Nanoparticles. Journal of Physical Chemistry C, 2015, 119, 12047-12054.	3.1	187
53	A Closer Look into Two-Step Perovskite Conversion with X-ray Scattering. Journal of Physical Chemistry Letters, 2015, 6, 1265-1269.	4.6	96
54	Stabilization of the Trigonal High-Temperature Phase of Formamidinium Lead Iodide. Journal of Physical Chemistry Letters, 2015, 6, 1249-1253.	4.6	477

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55	A low cost azomethine-based hole transporting material for perovskite photovoltaics. Journal of Materials Chemistry A, 2015, 3, 12159-12162.	10.3	260
56	Guided in Situ Polymerization of MEH-PPV in Mesoporous Titania Photoanodes. ACS Applied Materials & Interfaces, 2015, 7, 10356-10364.	8.0	1
57	Reversible Hydration of CH₃NH₃PbI₃ in Films, Single Crystals, and Solar Cells. Chemistry of Materials, 2015, 27, 3397-3407.	6.7	1,133
58	Morphological Control for High Performance, Solutionâ€Processed Planar Heterojunction Perovskite Solar Cells. Advanced Functional Materials, 2014, 24, 151-157.	14.9	1,782
59	Towards Longâ€Term Photostability of Solidâ€State Dye Sensitized Solar Cells. Advanced Energy Materials, 2014, 4, 1301667.	19.5	51
60	Observation of Annealing-Induced Doping in TiO₂ Mesoporous Single Crystals for Use in Solid State Dye Sensitized Solar Cells. Journal of Physical Chemistry C, 2014, 118, 1821-1827.	3.1	19
61	Solution Depositionâ€Conversion for Planar Heterojunction Mixed Halide Perovskite Solar Cells. Advanced Energy Materials, 2014, 4, 1400355.	19.5	325
62	Influence of the orientation of methylammonium lead iodide perovskite crystals on solar cell performance. APL Materials, 2014, 2, .	5.1	95
63	Efficient Planar Heterojunction Perovskite Solar Cells Based on Formamidinium Lead Bromide. Journal of Physical Chemistry Letters, 2014, 5, 2791-2795.	4.6	250
64	Impact of Molecular Charge-Transfer States on Photocurrent Generation in Solid State Dye-Sensitized Solar Cells Employing Low-Band-Gap Dyes. Journal of Physical Chemistry C, 2014, 118, 16825-16830.	3.1	13
65	Bright light-emitting diodes based on organometal halide perovskite. Nature Nanotechnology, 2014, 9, 687-692.	31.5	3,627
66	Lessons Learned: From Dyeâ€Sensitized Solar Cells to Allâ€Solidâ€State Hybrid Devices. Advanced Materials, 2014, 26, 4013-4030.	21.0	144
67	Preparation of Single-Phase Films of CH₃NH₃Pb(I_{1â€“<i>x</i>}Br_{<i>x</i>})₃ with Sharp Optical Band Edges. Journal of Physical Chemistry Letters, 2014, 5, 2501-2505.	4.6	385
68	Solid State Dye-Sensitized Solar Cell. , 2014, , 2029-2040.		1
69	Charge Transport Limitations in Self-Assembled TiO₂ Photoanodes for Dye-Sensitized Solar Cells. Journal of Physical Chemistry Letters, 2013, 4, 698-703.	4.6	111
70	The influence of 1D, meso- and crystal structures on charge transport and recombination in solid-state dye-sensitized solar cells. Journal of Materials Chemistry A, 2013, 1, 12088.	10.3	22
71	Efficient organometal trihalide perovskite planar-heterojunction solar cells on flexible polymer substrates. Nature Communications, 2013, 4, 2761.	12.8	1,525
72	Optimizing the Energy Offset between Dye and Hole-Transporting Material in Solid-State Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2013, 117, 19850-19858.	3.1	19

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73	Enhanced electronic contacts in SnO2â€“dyeâ€“P3HT based solid state dye sensitized solar cells. Physical Chemistry Chemical Physics, 2013, 15, 2075.	2.8	17
74	Lithium salts as â€œredox activeâ€•p-type dopants for organic semiconductors and their impact in solid-state dye-sensitized solar cells. Physical Chemistry Chemical Physics, 2013, 15, 2572.	2.8	557
75	High-Performance Perovskite-Polymer Hybrid Solar Cells via Electronic Coupling with Fullerene Monolayers. Nano Letters, 2013, 13, 3124-3128.	9.1	602
76	Hyperbranched Quasi-1D Nanostructures for Solid-State Dye-Sensitized Solar Cells. ACS Nano, 2013, 7, 10023-10031.	14.6	65
77	The origin of an efficiency improving â€œlight soakingâ€•effect in SnO2 based solid-state dye-sensitized solar cells. Energy and Environmental Science, 2012, 5, 9566.	30.8	67
78	Unraveling the Function of an MgO Interlayer in Both Electrolyte and Solid-State SnO₂ Based Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2012, 116, 22840-22846.	3.1	57
79	Layerâ€byâ€Layer Formation of Blockâ€Copolymerâ€Derived TiO₂ for Solidâ€State Dyeâ€Sensitized Solar Cells. Small, 2012, 8, 432-440.	10.0	35
80	Pore Filling of Spiroâ€OMeTAD in Solidâ€State Dyeâ€Sensitized Solar Cells Determined Via Optical Reflectometry. Advanced Functional Materials, 2012, 22, 5010-5019.	14.9	78
81	Triblockâ€Terpolymerâ€Directed Selfâ€Assembly of Mesoporous TiO₂: Highâ€Performance Photoanodes for Solidâ€State Dyeâ€Sensitized Solar Cells. Advanced Energy Materials, 2012, 2, 676-682.	19.5	58
82	Improved conductivity in dye-sensitised solar cells through block-copolymer confined TiO₂crystallisation. Energy and Environmental Science, 2011, 4, 225-233.	30.8	88
83	Obviating the requirement for oxygen in SnO2-based solid-state dye-sensitized solar cells. Nanotechnology, 2011, 22, 225403.	2.6	40
84	Electron Mobility and Injection Dynamics in Mesoporous ZnO, SnO₂, and TiO₂ Films Used in Dye-Sensitized Solar Cells. ACS Nano, 2011, 5, 5158-5166.	14.6	698
85	Lead-sulphide quantum-dot sensitization of tin oxide based hybrid solar cells. Solar Energy, 2011, 85, 1283-1290.	6.1	39
86	Self-assembly as a design tool for the integration of photonic structures into excitonic solar cells. Proceedings of SPIE, 2011, , .	0.8	3
87	Control of Solidâ€State Dyeâ€Sensitized Solar Cell Performance by Blockâ€Copolymerâ€Directed TiO₂ Synthesis. Advanced Functional Materials, 2010, 20, 1787-1796.	14.9	131
88	Light-emitting Electrochemical Cells based on Inorganic Metal Halide Perovskite Nanocrystals. , 0, , .		0
89	Ultrafast spectroscopy of lattice-charge carrier interactions in bismuth-based perovskites. , 0, , .		0
90	The Influence of Fermi Level Alignment with Tin Oxide on the Hysteresis of Perovskite Solar Cells. , 0, , .		1

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91	Reversible Bandgap Instabilities in Multiple-Cation Mixed-Halide Perovskite Solar Cells. , 0, , .		0
92	2-Dimensional Layered Single Crystal Perovskites and Films for Memristor and Photoresistor Applications. , 0, , .		0
93	Synthesis of SOT-OH as a building block for the synthesis of new dimeric and trimeric Spiro-OMeTAD Materials. , 0, , .		0