

Pablo Docampo

List of Publications by Year in descending order

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44069

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docs citations

97
times ranked

17668
citing authors

#	ARTICLE	IF	CITATIONS
1	Bright light-emitting diodes based on organometal halide perovskite. <i>Nature Nanotechnology</i> , 2014, 9, 687-692.	31.5	3,627
2	Morphological Control for High Performance, Solution-Processed Planar Heterojunction Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2014, 24, 151-157.	14.9	1,782
3	Efficient organometal trihalide perovskite planar-heterojunction solar cells on flexible polymer substrates. <i>Nature Communications</i> , 2013, 4, 2761.	12.8	1,525
4	Reversible Hydration of $\text{CH}_3\text{NH}_3\text{PbI}_3$ in Films, Single Crystals, and Solar Cells. <i>Chemistry of Materials</i> , 2015, 27, 3397-3407.	6.7	1,133
5	Electron Mobility and Injection Dynamics in Mesoporous ZnO , SnO_2 , and TiO_2 Films Used in Dye-Sensitized Solar Cells. <i>ACS Nano</i> , 2011, 5, 5158-5166.	14.6	698
6	Highly Luminescent Cesium Lead Halide Perovskite Nanocrystals with Tunable Composition and Thickness by Ultrasonication. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 13887-13892.	13.8	615
7	High-Performance Perovskite-Polymer Hybrid Solar Cells via Electronic Coupling with Fullerene Monolayers. <i>Nano Letters</i> , 2013, 13, 3124-3128.	9.1	602
8	Lithium salts as redox active p-type dopants for organic semiconductors and their impact in solid-state dye-sensitized solar cells. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 2572.	2.8	557
9	Highly stable, phase pure $\text{Cs}_2\text{AgBiBr}_6$ double perovskite thin films for optoelectronic applications. <i>Journal of Materials Chemistry A</i> , 2017, 5, 19972-19981.	10.3	509
10	Stabilization of the Trigonal High-Temperature Phase of Formamidinium Lead Iodide. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 1249-1253.	4.6	477
11	Blue-Green Color Tunable Solution Processable Organolead Chloride-Bromide Mixed Halide Perovskites for Optoelectronic Applications. <i>Nano Letters</i> , 2015, 15, 6095-6101.	9.1	461
12	Preparation of Single-Phase Films of $\text{CH}_3\text{NH}_3\text{Pb}(\text{I}_x\text{Br}_{3-x})_3$ with Sharp Optical Band Edges. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 2501-2505.	4.6	385
13	Understanding charge transport in lead iodide perovskite thin-film field-effect transistors. <i>Science Advances</i> , 2017, 3, e1601935.	10.3	354
14	Solution Deposition-Conversion for Planar Heterojunction Mixed Halide Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2014, 4, 1400355.	19.5	325
15	Capturing the Sun: A Review of the Challenges and Perspectives of Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2017, 7, 1700264.	19.5	295
16	Hybrid Perovskite/Perovskite Heterojunction Solar Cells. <i>ACS Nano</i> , 2016, 10, 5999-6007.	14.6	276
17	A low cost azomethine-based hole transporting material for perovskite photovoltaics. <i>Journal of Materials Chemistry A</i> , 2015, 3, 12159-12162.	10.3	260
18	Efficient Planar Heterojunction Perovskite Solar Cells Based on Formamidinium Lead Bromide. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 2791-2795.	4.6	250

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19	A Long-Term View on Perovskite Optoelectronics. <i>Accounts of Chemical Research</i> , 2016, 49, 339-346.	15.6	189
20	Light-Emitting Electrochemical Cells Based on Hybrid Lead Halide Perovskite Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2015, 119, 12047-12054.	3.1	187
21	Understanding the Role of Cesium and Rubidium Additives in Perovskite Solar Cells: Trap States, Charge Transport, and Recombination. <i>Advanced Energy Materials</i> , 2018, 8, 1703057.	19.5	184
22	Recycling Perovskite Solar Cells To Avoid Lead Waste. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 12881-12886.	8.0	176
23	Impact of Rubidium and Cesium Cations on the Moisture Stability of Multiple-Cation Mixed-Halide Perovskites. <i>ACS Energy Letters</i> , 2017, 2, 2212-2218.	17.4	167
24	Ionic-to-electronic current amplification in hybrid perovskite solar cells: ionically gated transistor-interface circuit model explains hysteresis and impedance of mixed conducting devices. <i>Energy and Environmental Science</i> , 2019, 12, 1296-1308.	30.8	146
25	Lessons Learned: From Dye-Sensitized Solar Cells to All-Solid-State Hybrid Devices. <i>Advanced Materials</i> , 2014, 26, 4013-4030.	21.0	144
26	Control of Solid-State Dye-Sensitized Solar Cell Performance by Block-Copolymer-Directed TiO ₂ Synthesis. <i>Advanced Functional Materials</i> , 2010, 20, 1787-1796.	14.9	131
27	A general approach for hysteresis-free, operationally stable metal halide perovskite field-effect transistors. <i>Science Advances</i> , 2020, 6, eaaz4948.	10.3	129
28	Charge Transport Limitations in Self-Assembled TiO ₂ Photoanodes for Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 698-703.	4.6	111
29	Synthesis of Perfectly Oriented and Micrometer-Sized MAPbBr ₃ Perovskite Crystals for Thin-Film Photovoltaic Applications. <i>ACS Energy Letters</i> , 2016, 1, 150-154.	17.4	103
30	Charge Transfer from Methylammonium Lead Iodide Perovskite to Organic Transport Materials: Efficiencies, Transfer Rates, and Interfacial Recombination. <i>Advanced Energy Materials</i> , 2017, 7, 1602349.	19.5	101
31	A Closer Look into Two-Step Perovskite Conversion with X-ray Scattering. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 1265-1269.	4.6	96
32	Influence of the orientation of methylammonium lead iodide perovskite crystals on solar cell performance. <i>APL Materials</i> , 2014, 2, .	5.1	95
33	Improved conductivity in dye-sensitized solar cells through block-copolymer confined TiO ₂ crystallisation. <i>Energy and Environmental Science</i> , 2011, 4, 225-233.	30.8	88
34	Influence of Fermi Level Alignment with Tin Oxide on the Hysteresis of Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 11414-11419.	8.0	79
35	Pore Filling of Spiro-OMeTAD in Solid-State Dye-Sensitized Solar Cells Determined Via Optical Reflectometry. <i>Advanced Functional Materials</i> , 2012, 22, 5010-5019.	14.9	78
36	New Generation Hole Transporting Materials for Perovskite Solar Cells: Amide-Based Small Molecules with Nonconjugated Backbones. <i>Advanced Energy Materials</i> , 2018, 8, 1801605.	19.5	78

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37	The Influence of Water Vapor on the Stability and Processing of Hybrid Perovskite Solar Cells Made from Non-stoichiometric Precursor Mixtures. <i>ChemSusChem</i> , 2016, 9, 2699-2707.	6.8	77
38	Temperature-dependent studies of exciton binding energy and phase-transition suppression in (Cs,FA,MA)Pb(I,Br) ₃ perovskites. <i>APL Materials</i> , 2019, 7, .	5.1	73
39	The origin of an efficiency improving "light soaking" effect in SnO ₂ based solid-state dye-sensitized solar cells. <i>Energy and Environmental Science</i> , 2012, 5, 9566.	30.8	67
40	Toward Tailored Film Morphologies: The Origin of Crystal Orientation in Hybrid Perovskite Thin Films. <i>Advanced Materials Interfaces</i> , 2016, 3, 1600403.	3.7	67
41	Progress and challenges in perovskite photovoltaics from single- to multi-junction cells. <i>Materials Today Energy</i> , 2019, 12, 70-94.	4.7	67
42	Hyperbranched Quasi-1D Nanostructures for Solid-State Dye-Sensitized Solar Cells. <i>ACS Nano</i> , 2013, 7, 10023-10031.	14.6	65
43	Identifying and controlling phase purity in 2D hybrid perovskite thin films. <i>Journal of Materials Chemistry A</i> , 2018, 6, 22215-22225.	10.3	59
44	Triblock-Terpolymer-Directed Self-Assembly of Mesoporous TiO ₂ : High-Performance Photoanodes for Solid-State Dye-Sensitized Solar Cells. <i>Advanced Energy Materials</i> , 2012, 2, 676-682.	19.5	58
45	Unraveling the Function of an MgO Interlayer in Both Electrolyte and Solid-State SnO ₂ Based Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2012, 116, 22840-22846.	3.1	57
46	Shedding Light on the Moisture Stability of 3D/2D Hybrid Perovskite Heterojunction Thin Films. <i>ACS Applied Energy Materials</i> , 2019, 2, 1011-1018.	5.1	56
47	Starke Lumineszenz in Nanokristallen aus Caesiumbleihalogenid-Perowskit mit durchstimmbarer Zusammensetzung und Dicke mittels Ultraschalldispersion. <i>Angewandte Chemie</i> , 2016, 128, 14091-14096.	2.0	54
48	Towards Long-Term Photostability of Solid-State Dye Sensitized Solar Cells. <i>Advanced Energy Materials</i> , 2014, 4, 1301667.	19.5	51
49	Design rules for the preparation of low-cost hole transporting materials for perovskite solar cells with moisture barrier properties. <i>Journal of Materials Chemistry A</i> , 2017, 5, 25200-25210.	10.3	49
50	Temperature-Dependent Ambipolar Charge Carrier Mobility in Large-Crystal Hybrid Halide Perovskite Thin Films. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 20838-20844.	8.0	49
51	Layered Perovskites in Solar Cells: Structure, Optoelectronic Properties, and Device Design. <i>Advanced Energy Materials</i> , 2021, 11, 2003877.	19.5	49
52	Unveiling the Dynamic Processes in Hybrid Lead Bromide Perovskite Nanoparticle Thin Film Devices. <i>Advanced Energy Materials</i> , 2017, 7, 1602283.	19.5	47
53	Single-crystal-like optoelectronic-properties of MAPbI ₃ perovskite polycrystalline thin films. <i>Journal of Materials Chemistry A</i> , 2018, 6, 4822-4828.	10.3	46
54	Obviating the requirement for oxygen in SnO ₂ -based solid-state dye-sensitized solar cells. <i>Nanotechnology</i> , 2011, 22, 225403.	2.6	40

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55	Grain Boundaries Act as Solid Walls for Charge Carrier Diffusion in Large Crystal MAPbI ₃ Thin Films. ACS Applied Materials & Interfaces, 2018, 10, 7974-7981.	8.0	40
56	Lead-sulphide quantum-dot sensitization of tin oxide based hybrid solar cells. Solar Energy, 2011, 85, 1283-1290.	6.1	39
57	Layer-by-Layer Formation of Block-Copolymer-Derived TiO ₂ for Solid-State Dye-Sensitized Solar Cells. Small, 2012, 8, 432-440.	10.0	35
58	Light-emitting electrochemical cells based on inorganic metal halide perovskite nanocrystals. Journal Physics D: Applied Physics, 2018, 51, 334001.	2.8	32
59	Charge Transport Limitations in Perovskite Solar Cells: The Effect of Charge Extraction Layers. ACS Applied Materials & Interfaces, 2017, 9, 37655-37661.	8.0	30
60	Control of Perovskite Crystal Growth by Methylammonium Lead Chloride Templating. Chemistry - an Asian Journal, 2016, 11, 1199-1204.	3.3	28
61	Contactless Visualization of Fast Charge Carrier Diffusion in Hybrid Halide Perovskite Thin Films. ACS Photonics, 2016, 3, 255-261.	6.6	26
62	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
63	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
64	Passivation of PbS Quantum Dot Surface with γ -Glutathione in Solid-State Quantum-Dot-Sensitized Solar Cells. ACS Applied Materials & Interfaces, 2016, 8, 4600-4607.	8.0	22
65	Universal Nanoparticle Wetting Agent for Upscaling Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2019, 11, 12948-12957.	8.0	22
66	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
67	Observation of Annealing-Induced Doping in TiO ₂ Mesoporous Single Crystals for Use in Solid State Dye Sensitized Solar Cells. Journal of Physical Chemistry C, 2014, 118, 1821-1827.	3.1	19
68	Synthesis of Hybrid Tin Halide Perovskite Solar Cells with Less Hazardous Solvents: Methanol and 1,4-Dioxane. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2017, 643, 1704-1711.	1.2	19
69	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
70	Highly Efficient Reproducible Perovskite Solar Cells Prepared by Low-Temperature Processing. Molecules, 2016, 21, 542.	3.8	18
71	Enhanced electronic contacts in SnO ₂ -dye-P3HT based solid state dye sensitized solar cells. Physical Chemistry Chemical Physics, 2013, 15, 2075.	2.8	17
72	Perovskite solar cells with a hybrid electrode structure. AIP Advances, 2019, 9, 125037.	1.3	16

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73	Wide-Band-Gap Metal-Free Perovskite for Third-Order Nonlinear Optics. ACS Photonics, 2021, 8, 2450-2458.	6.6	15
74	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
75	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
76	Chapter 2. Towards Optimum Solution-processed Planar Heterojunction Perovskite Solar Cells. RSC Energy and Environment Series, 2016, , 32-56.	0.5	5
77	Self-assembly as a design tool for the integration of photonic structures into excitonic solar cells. Proceedings of SPIE, 2011, , .	0.8	3
78	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
79	Guided in Situ Polymerization of MEH-PPV in Mesoporous Titania Photoanodes. ACS Applied Materials & Interfaces, 2015, 7, 10356-10364.	8.0	1
80	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
81	Quantum Dot Based Light-Emitting Electrochemical Cells. , 2017, , 351-371.		1
82	Solid State Dye-Sensitized Solar Cell. , 2014, , 2029-2040.		1
83	The Influence of Fermi Level Alignment with Tin Oxide on the Hysteresis of Perovskite Solar Cells. , 0, , .		1
84	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
85	Temperature-Dependent Electromodulation Spectroscopy of Excitons in Perovskite Solar Cells. , 2018, , .		0
86	Preface: Two dimensional (2D) hybrid organic-inorganic perovskites. APL Materials, 2018, 6, .	5.1	0
87	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
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	Reversible Bandgap Instabilities in Multiple-Cation Mixed-Halide Perovskite Solar Cells. , 0, , .		0

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91	SPICE Modeling and Characterization of Filament Formation Perovskite Memristors. , 2020, , .		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