Pablo P Boix

List of Publications by Year in Descending Order

Source: https://exaly.com/author-pdf/2164105/pablo-p-boix-publications-by-year.pdf

Version: 2024-04-19

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

56 105 103 12,419 h-index g-index citations papers 6.46 13,611 105 10.7 L-index avg, IF ext. citations ext. papers

#	Paper	IF	Citations
103	ZnS Ultrathin Interfacial Layers for Optimizing Carrier Management in SbS-based Photovoltaics. <i>ACS Applied Materials & Discounty Interfaces</i> , 2021 , 13, 11861-11868	9.5	8
102	Amplified spontaneous emission in thin films of quasi-2D BAMAPbBr lead halide perovskites. <i>Nanoscale</i> , 2021 , 13, 8893-8900	7.7	4
101	Enhanced operational stability through interfacial modification by active encapsulation of perovskite solar cells. <i>Applied Physics Letters</i> , 2020 , 116, 113502	3.4	13
100	FAPb0.5Sn0.5I3: A Narrow Bandgap Perovskite Synthesized through Evaporation Methods for Solar Cell Applications. <i>Solar Rrl</i> , 2020 , 4, 2070024	7.1	5
99	Radiative and non-radiative losses by voltage-dependent in-situ photoluminescence in perovskite solar cell current-voltage curves. <i>Journal of Luminescence</i> , 2020 , 222, 117106	3.8	5
98	Vacuum-Deposited Multication Tin[lead Perovskite Solar Cells. <i>ACS Applied Energy Materials</i> , 2020 , 3, 2755-2761	6.1	10
97	Ligand-Length Modification in CsPbBr Perovskite Nanocrystals and Bilayers with PbS Quantum Dots for Improved Photodetection Performance. <i>Nanomaterials</i> , 2020 , 10,	5.4	9
96	Hybrid Vapor-Solution Sequentially Deposited Mixed-Halide Perovskite Solar Cells. <i>ACS Applied Energy Materials</i> , 2020 , 3, 8257-8265	6.1	10
95	Use of Hydrogen Molybdenum Bronze in Vacuum-Deposited Perovskite Solar Cells. <i>Energy Technology</i> , 2020 , 8, 1900734	3.5	2
94	FAPb0.5Sn0.5I3: A Narrow Bandgap Perovskite Synthesized through Evaporation Methods for Solar Cell Applications. <i>Solar Rrl</i> , 2020 , 4, 1900283	7.1	16
93	An Equivalent Circuit for Perovskite Solar Cell Bridging Sensitized to Thin Film Architectures. <i>Joule</i> , 2019 , 3, 2535-2549	27.8	53
92	Effects of energetics with {001} facet-dominant anatase TiO2 scaffold on electron transport in CH3NH3PbI3 perovskite solar cells. <i>Electrochimica Acta</i> , 2019 , 300, 445-454	6.7	11
91	Molecular Passivation of MoO3: Band Alignment and Protection of Charge Transport Layers in Vacuum-Deposited Perovskite Solar Cells. <i>Chemistry of Materials</i> , 2019 , 31, 6945-6949	9.6	32
90	Flash infrared annealing as a cost-effective and low environmental impact processing method for planar perovskite solar cells. <i>Materials Today</i> , 2019 , 31, 39-46	21.8	44
89	Charge injection and trapping at perovskite interfaces with organic hole transporting materials of different ionization energies. <i>APL Materials</i> , 2019 , 7, 041115	5.7	12
88	Impedance analysis of perovskite solar cells: a case study. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 12	19 ₁₁₃ 122	2 0,0 0
87	Room-Temperature Cubic Phase Crystallization and High Stability of Vacuum-Deposited Methylammonium Lead Triiodide Thin Films for High-Efficiency Solar Cells. <i>Advanced Materials</i> , 2019 , 31, e1902692	24	30

(2017-2019)

86	Short Photoluminescence Lifetimes in Vacuum-Deposited CHNHPbI Perovskite Thin Films as a Result of Fast Diffusion of Photogenerated Charge Carriers. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 5167-5172	6.4	21
85	Efficient Vacuum Deposited P-I-N Perovskite Solar Cells by Front Contact Optimization. <i>Frontiers in Chemistry</i> , 2019 , 7, 936	5	10
84	Perovskite Nanoparticles: Synthesis, Properties, and Novel Applications in Photovoltaics and LEDs. <i>Small Methods</i> , 2019 , 3, 1800231	12.8	51
83	Influence of hole transport material ionization energy on the performance of perovskite solar cells. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 523-527	7.1	33
82	Vacuum Deposited Triple-Cation Mixed-Halide Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2018 , 8, 1703506	21.8	115
81	Interfacial Modification for High-Efficiency Vapor-Phase-Deposited Perovskite Solar Cells Based on a Metal Oxide Buffer Layer. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 1041-1046	6.4	76
8o	Perovskite-Perovskite Homojunctions via Compositional Doping. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 2770-2775	6.4	54
79	Working Principles of Perovskite Solar Cells 2018 , 81-99		1
78	High voltage vacuum-deposited CH3NH3PbI3©CH3NH3PbI3 tandem solar cells. <i>Energy and Environmental Science</i> , 2018 , 11, 3292-3297	35.4	74
77	Effects of Frequency Dependence of the External Quantum Efficiency of Perovskite Solar Cells. Journal of Physical Chemistry Letters, 2018 , 9, 3099-3104	6.4	36
76	Influence of doped charge transport layers on efficient perovskite solar cells. <i>Sustainable Energy and Fuels</i> , 2018 , 2, 2429-2434	5.8	14
75	Towards high efficiency thin film solar cells. <i>Progress in Materials Science</i> , 2017 , 87, 246-291	42.2	67
74	Temperature and Electrical Poling Effects on Ionic Motion in MAPbI3 Photovoltaic Cells. <i>Advanced Energy Materials</i> , 2017 , 7, 1700265	21.8	19
73	Amplified Spontaneous Emission Properties of Solution Processed CsPbBr3 Perovskite Thin Films. Journal of Physical Chemistry C, 2017 , 121, 14772-14778	3.8	49
72	Atomically Altered Hematite for Highly Efficient Perovskite Tandem Water-Splitting Devices. <i>ChemSusChem</i> , 2017 , 10, 2449-2456	8.3	62
71	Identifying and suppressing interfacial recombination to achieve high open-circuit voltage in perovskite solar cells. <i>Energy and Environmental Science</i> , 2017 , 10, 1207-1212	35.4	242
7º	Vapor-Deposited Perovskites: The Route to High-Performance Solar Cell Production?. <i>Joule</i> , 2017 , 1, 431-442	27.8	205
69	Photovoltaics: Temperature and Electrical Poling Effects on Ionic Motion in MAPbI3 Photovoltaic Cells (Adv. Energy Mater. 18/2017). <i>Advanced Energy Materials</i> , 2017 , 7,	21.8	1

68	High Stability Bilayered Perovskites through Crystallization Driven Self-Assembly. <i>ACS Applied Materials & Amp; Interfaces</i> , 2017 , 9, 28743-28749	9.5	18
67	Interfacial Kinetics of Efficient Perovskite Solar Cells. <i>Crystals</i> , 2017 , 7, 252	2.3	20
66	Efficient photoluminescent thin films consisting of anchored hybrid perovskite nanoparticles. <i>Chemical Communications</i> , 2016 , 52, 11351-11354	5.8	13
65	Surface Recombination and Collection Efficiency in Perovskite Solar Cells from Impedance Analysis. Journal of Physical Chemistry Letters, 2016 , 7, 5105-5113	6.4	284
64	Charge Transport in Organometal Halide Perovskites 2016 , 201-222		6
63	Lead-Free MA2CuCl(x)Br(4-x) Hybrid Perovskites. <i>Inorganic Chemistry</i> , 2016 , 55, 1044-52	5.1	345
62	Crystalline Fe 2 O 3 /Fe 2 TiO 5 heterojunction nanorods with efficient charge separation and hole injection as photoanode for solar water oxidation. <i>Nano Energy</i> , 2016 , 22, 310-318	17.1	80
61	Carbon nanotubes as an efficient hole collector for high voltage methylammonium lead bromide perovskite solar cells. <i>Nanoscale</i> , 2016 , 8, 6352-60	7.7	76
60	Highly Active MnO Catalysts Integrated onto Fe2O3 Nanorods for Efficient Water Splitting. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1600176	4.6	18
59	Nanostructuring Mixed-Dimensional Perovskites: A Route Toward Tunable, Efficient Photovoltaics. <i>Advanced Materials</i> , 2016 , 28, 3653-61	24	201
58	Perovskite Materials for Light-Emitting Diodes and Lasers. <i>Advanced Materials</i> , 2016 , 28, 6804-34	24	946
57	Morphological Characterization of the Anterior Palatine Region Using Cone Beam Computed Tomography. <i>Clinical Implant Dentistry and Related Research</i> , 2015 , 17 Suppl 2, e459-64	3.9	19
56	Revealing the Role of TiO2 Surface Treatment of Hematite Nanorods Photoanodes for Solar Water Splitting. <i>ACS Applied Materials & Discourse amp; Interfaces</i> , 2015 , 7, 16960-6	9.5	72
55	Formamidinium tin-based perovskite with low Eg for photovoltaic applications. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 14996-15000	13	338
54	Modulating light propagation in ZnO-CuD-inverse opal solar cells for enhanced photocurrents. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 21694-701	3.6	9
53	Silicon decorated with amorphous cobalt molybdenum sulfide catalyst as an efficient photocathode for solar hydrogen generation. <i>ACS Nano</i> , 2015 , 9, 3829-36	16.7	84
52	Core-shell hematite nanorods: a simple method to improve the charge transfer in the photoanode for photoelectrochemical water splitting. <i>ACS Applied Materials & amp; Interfaces</i> , 2015 , 7, 6852-9	9.5	53
51	Inorganic Halide Perovskites for Efficient Light-Emitting Diodes. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 4360-4	6.4	413

(2014-2015)

50	Facile Synthesis of a Furan-Arylamine Hole-Transporting Material for High-Efficiency, Mesoscopic Perovskite Solar Cells. <i>Chemistry - A European Journal</i> , 2015 , 21, 15113-7	4.8	45
49	Open circuit potential build-up in perovskite solar cells from dark conditions to 1 sun. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 4640-5	6.4	44
48	Impact of Anionic Brl͡substitution on Open Circuit Voltage in Lead Free Perovskite (CsSnI3-xBrx) Solar Cells. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 1763-1767	3.8	263
47	Loading of mesoporous titania films by CH3NH3PbI3 perovskite, single step vs. sequential deposition. <i>Chemical Communications</i> , 2015 , 51, 4603-6	5.8	61
46	Unravelling the Effects of Cl Addition in Single Step CH3NH3PbI3 Perovskite Solar Cells. <i>Chemistry of Materials</i> , 2015 , 27, 2309-2314	9.6	81
45	Perovskite Solar Cells: Beyond Methylammonium Lead Iodide. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 898-907	6.4	234
44	A swivel-cruciform thiophene based hole-transporting material for efficient perovskite solar cells. Journal of Materials Chemistry A, 2014 , 2, 6305-6309	13	156
43	Current progress and future perspectives for organic/inorganic perovskite solar cells. <i>Materials Today</i> , 2014 , 17, 16-23	21.8	293
42	Engineering a Cu2O/NiO/Cu2MoS4 hybrid photocathode for H2 generation in water. <i>Nanoscale</i> , 2014 , 6, 6506-10	7.7	57
41	Band-gap tuning of lead halide perovskites using a sequential deposition process. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 9221-9225	13	398
40	High efficiency electrospun TiOIhanofiber based hybrid organic-inorganic perovskite solar cell. <i>Nanoscale</i> , 2014 , 6, 1675-9	7.7	163
39	Theory of Impedance Spectroscopy of Ambipolar Solar Cells with Trap-Mediated Recombination. Journal of Physical Chemistry C, 2014 , 118, 16574-16580	3.8	24
38	MODULATING CH3NH3Pbi3 PEROVSKITE CRYSTALLIZATION BEHAVIOR THROUGH PRECURSOR CONCENTRATION. <i>Nano</i> , 2014 , 09, 1440003	1.1	8
37	Synthesis and characterization of organic dyes with various electron-accepting substituents for p-type dye-sensitized solar cells. <i>Chemistry - an Asian Journal</i> , 2014 , 9, 3251-63	4.5	23
36	Lead-free halide perovskite solar cells with high photocurrents realized through vacancy modulation. <i>Advanced Materials</i> , 2014 , 26, 7122-7	24	737
35	Incorporation of Cl into sequentially deposited lead halide perovskite films for highly efficient mesoporous solar cells. <i>Nanoscale</i> , 2014 , 6, 13854-60	7.7	70
34	Iron pyrite thin film counter electrodes for dye-sensitized solar cells: high efficiency for iodine and cobalt redox electrolyte cells. <i>ACS Nano</i> , 2014 , 8, 10597-605	16.7	127
33	Formamidinium-Containing Metal-Halide: An Alternative Material for Near-IR Absorption Perovskite Solar Cells. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 16458-16462	3.8	554

32	Facile water-based spray pyrolysis of earth-abundant Cu2FeSnS4 thin films as an efficient counter electrode in dye-sensitized solar cells. <i>ACS Applied Materials & District Science</i> , 2014 , 6, 17661-7	9.5	90
31	Hole-transporting small molecules based on thiophene cores for high efficiency perovskite solar cells. <i>ChemSusChem</i> , 2014 , 7, 3420-5	8.3	122
30	Novel hole transporting materials based on triptycene core for high efficiency mesoscopic perovskite solar cells. <i>Chemical Science</i> , 2014 , 5, 2702-2709	9.4	160
29	Laminated carbon nanotube networks for metal electrode-free efficient perovskite solar cells. <i>ACS Nano</i> , 2014 , 8, 6797-804	16.7	371
28	Novel cobalt/nickel E ungsten-sulfide catalysts for electrocatalytic hydrogen generation from water. <i>Energy and Environmental Science</i> , 2013 , 6, 2452	35.4	167
27	Flexible, low-temperature, solution processed ZnO-based perovskite solid state solar cells. <i>Chemical Communications</i> , 2013 , 49, 11089-91	5.8	481
26	Decoupling light absorption and charge transport properties in near IR-sensitized Fe2O3 regenerative cells. <i>Energy and Environmental Science</i> , 2013 , 6, 3280	35.4	13
25	Effect of Organic and Inorganic Passivation in Quantum-Dot-Sensitized Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2013 , 4, 1519-25	6.4	90
24	High performance PbS Quantum Dot Sensitized Solar Cells exceeding 4% efficiency: the role of metal precursors in the electron injection and charge separation. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 13835-43	3.6	133
23	High efficiency solid-state sensitized solar cell-based on submicrometer rutile TiO2 nanorod and CH3NH3Pbl3 perovskite sensitizer. <i>Nano Letters</i> , 2013 , 13, 2412-7	11.5	825
22	Effect of nanostructured electrode architecture and semiconductor deposition strategy on the photovoltaic performance of quantum dot sensitized solar cells. <i>Electrochimica Acta</i> , 2012 , 75, 139-147	6.7	61
21	Oxygen doping-induced photogeneration loss in P3HT:PCBM solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2012 , 100, 185-191	6.4	69
20	Kinetics of occupancy of defect states in poly(3-hexylthiophene):fullerene solar cells. <i>Thin Solid Films</i> , 2012 , 520, 2265-2268	2.2	14
19	Recombination in Organic Bulk Heterojunction Solar Cells: Small Dependence of Interfacial Charge Transfer Kinetics on Fullerene Affinity. <i>Journal of Physical Chemistry Letters</i> , 2012 , 3, 1386-92	6.4	32
18	How the charge-neutrality level of interface states controls energy level alignment in cathode contacts of organic bulk-heterojunction solar cells. <i>ACS Nano</i> , 2012 , 6, 3453-60	16.7	104
17	From flat to nanostructured photovoltaics: balance between thickness of the absorber and charge screening in sensitized solar cells. <i>ACS Nano</i> , 2012 , 6, 873-80	16.7	156
16	Colloidal PbS and PbSeS Quantum Dot Sensitized Solar Cells Prepared by Electrophoretic Deposition. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 16391-16397	3.8	77
15	Photocurrent enhancement in dye-sensitized photovoltaic devices with titania@raphene composite electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2012 , 683, 43-46	4.1	46

LIST OF PUBLICATIONS

14	Series resistance in organic bulk-heterojunction solar devices: Modulating carrier transport with fullerene electron traps. <i>Organic Electronics</i> , 2012 , 13, 2326-2332	3.5	57
13	Sb2S3-Sensitized Photoelectrochemical Cells: Open Circuit Voltage Enhancement through the Introduction of Poly-3-hexylthiophene Interlayer. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 20717-207	23 ^{.8}	42
12	Hole Transport and Recombination in All-Solid Sb2S3-Sensitized TiO2 Solar Cells Using CuSCN As Hole Transporter. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 1579-1587	3.8	162
11	Photoanodes based on nanostructured WO3 for water splitting. <i>ChemPhysChem</i> , 2012 , 13, 3025-34	3.2	89
10	Fluorine Treatment of TiO2 for Enhancing Quantum Dot Sensitized Solar Cell Performance. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 14400-14407	3.8	99
9	Role of ZnO Electron-Selective Layers in Regular and Inverted Bulk Heterojunction Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2011 , 2, 407-411	6.4	114
8	PEDOT Nanotube Arrays as High Performing Counter Electrodes for Dye Sensitized Solar Cells. Study of the Interactions Among Electrolytes and Counter Electrodes. <i>Advanced Energy Materials</i> , 2011 , 1, 781-784	21.8	137
7	Current-Voltage Characteristics of Bulk Heterojunction Organic Solar Cells: Connection Between Light and Dark Curves. <i>Advanced Energy Materials</i> , 2011 , 1, 1073-1078	21.8	64
6	Carrier recombination losses in inverted polymer: Fullerene solar cells with ZnO hole-blocking layer from transient photovoltage and impedance spectroscopy techniques. <i>Journal of Applied Physics</i> , 2011 , 109, 074514	2.5	54
5	Open-Circuit Voltage Limitation in Low-Bandgap Diketopyrrolopyrrole-Based Polymer Solar Cells Processed from Different Solvents. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 15075-15080	3.8	41
4	Influence of the Intermediate Density-of-States Occupancy on Open-Circuit Voltage of Bulk Heterojunction Solar Cells with Different Fullerene Acceptors. <i>Journal of Physical Chemistry Letters</i> , 2010 , 1, 2566-2571	6.4	126
3	Simultaneous determination of carrier lifetime and electron density-of-states in P3HT:PCBM organic solar cells under illumination by impedance spectroscopy. <i>Solar Energy Materials and Solar Cells</i> , 2010 , 94, 366-375	6.4	283
2	Impedance spectroscopy characterisation of highly efficient silicon solar cells under different light illumination intensities. <i>Energy and Environmental Science</i> , 2009 , 2, 678	35.4	196
1	Determination of gap defect states in organic bulk heterojunction solar cells from capacitance measurements. <i>Applied Physics Letters</i> , 2009 , 95, 233302	3.4	141