

# Pilar Lopez-Varo

## List of Publications by Year in descending order

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31  
papers

972  
citations

687363

13  
h-index

580821

25  
g-index

31  
all docs

31  
docs citations

31  
times ranked

1928  
citing authors

#	ARTICLE	IF	CITATIONS
1	Device Physics of Hybrid Perovskite Solar cells: Theory and Experiment. <i>Advanced Energy Materials</i> , 2018, 8, 1702772.	19.5	186
2	Physical aspects of ferroelectric semiconductors for photovoltaic solar energy conversion. <i>Physics Reports</i> , 2016, 653, 1-40.	25.6	166
3	Dynamic Phenomena at Perovskite/Electron-Selective Contact Interface as Interpreted from Photovoltage Decays. <i>CheM</i> , 2016, 1, 776-789.	11.7	153
4	Charge transfer processes at the semiconductor/electrolyte interface for solar fuel production: insight from impedance spectroscopy. <i>Journal of Materials Chemistry A</i> , 2016, 4, 2873-2879.	10.3	94
5	Combinatorial Investigation and Modelling of MoO <sub>3</sub> Hole-Selective Contact in TiO <sub>2</sub>   Co <sub>3</sub> O <sub>4</sub>   MoO <sub>3</sub> All-Oxide Solar Cells. <i>Advanced Materials Interfaces</i> , 2016, 3, 1500405.	3.7	48
6	Effects of Ion Distributions on Charge Collection in Perovskite Solar Cells. <i>ACS Energy Letters</i> , 2017, 2, 1450-1453.	17.4	45
7	Understanding the synergistic effect of WO <sub>3</sub> /BiVO <sub>4</sub> heterostructures by impedance spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 9255-9261.	2.8	41
8	Modeling the transition from ohmic to space charge limited current in organic semiconductors. <i>Organic Electronics</i> , 2012, 13, 1700-1709.	2.6	32
9	Compact Modeling and Contact Effects in Thin Film Transistors. <i>IEEE Transactions on Electron Devices</i> , 2014, 61, 266-277.	3.0	29
10	Ionic dipolar switching hinders charge collection in perovskite solar cells with normal and inverted hysteresis. <i>Solar Energy Materials and Solar Cells</i> , 2019, 195, 291-298.	6.2	29
11	Co <sub>3</sub> O <sub>4</sub> Based All-Oxide PV: A Numerical Simulation Analyzed Combinatorial Material Science Study. <i>Journal of Physical Chemistry C</i> , 2016, 120, 9053-9060.	3.1	22
12	Space-charge and injection limited current in organic diodes: A unified model. <i>Organic Electronics</i> , 2014, 15, 2526-2535.	2.6	20
13	Analysis of the Influence of Selective Contact Heterojunctions on the Performance of Perovskite Solar Cells. <i>Journal of Physical Chemistry C</i> , 2018, 122, 13920-13925.	3.1	20
14	Characterization of organic thin film transistors with hysteresis and contact effects. <i>Organic Electronics</i> , 2013, 14, 3286-3296.	2.6	14
15	Compact Modeling of Organic Thin-Film Transistors with Solution Processed Octadecyl Substituted Tetrabenzotriazaporphyrin as an Active Layer. <i>IEEE Transactions on Electron Devices</i> , 2017, 64, 2629-2634.	3.0	12
16	Organic thin film transistors using a liquid crystalline palladium phthalocyanine as active layer. <i>Journal of Applied Physics</i> , 2018, 123, .	2.5	10
17	Boundary condition model for the simulation of organic solar cells. <i>Organic Electronics</i> , 2017, 48, 85-95.	2.6	9
18	Backside light management of 4-terminal bifacial perovskite/silicon tandem PV modules evaluated under realistic conditions. <i>Optics Express</i> , 2020, 28, 37487.	3.4	9

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19	Electrical characterization of controlled and unintentional modified metal-organic contacts. Organic Electronics, 2014, 15, 2536-2545.	2.6	6
20	Charge density at the contacts of symmetric and asymmetric organic diodes. Organic Electronics, 2016, 35, 74-86.	2.6	6
21	Dynamic temperature effects in perovskite solar cells and energy yield. Sustainable Energy and Fuels, 0, , .	4.9	5
22	Compact modeling of the effects of illumination on the contact region of organic phototransistors. Organic Electronics, 2019, 70, 113-121.	2.6	4
23	Degradation through Directional Self-Doping and Homogeneous Density of Recombination Centers Hindered by 1,8-Diiodooctane Additive in Non-Fullerene Organic Solar Cells. Solar Rrl, 2021, 5, 2100024.	5.8	4
24	Detrimental effects of ion migration in the perovskite and hole transport layers on the efficiency of inverted perovskite solar cells. Journal of Photonics for Energy, 2020, 10, 1.	1.3	3
25	On the equilibrium electrostatic potential and light-induced charge redistribution in halide perovskite structures. Progress in Photovoltaics: Research and Applications, 2022, 30, 994-1002.	8.1	2
26	Study of 1/f and generation-recombination noise in four gate transistors. , 2011, , .		1
27	Influence of the contact effects on the variation of the trapped charge in the intrinsic channel of organic thin film transistors. , 2013, , .		1
28	Thin-Film Photovoltaics: Combinatorial Investigation and Modelling of MoO <sub>3</sub> Hole-Selective Contact in TiO <sub>2</sub>   Co <sub>3</sub> O <sub>4</sub>   MoO <sub>3</sub> All-Oxide Solar Cells (Adv. Mater. Interfaces 1/2016). Advanced Materials Interfaces, 2016, 3, .	3.7	1
29	Effect of doping in the current voltage characteristics of organic diodes. , 2015, , .		0
30	Theoretical study of the MAPbI <sub>3</sub> /SnO <sub>2</sub> interface band offset in perovskite solar cells considering mobile ions. , 2019, , .		0
31	Temperature Effects on the Energy Yield of Perovskite Solar Cells. , 2021, , .		0