

# Belen Arredondo

## List of Publications by Year in descending order

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Version: 2024-02-01

21  
papers

463  
citations

687363

13  
h-index

794594

19  
g-index

21  
all docs

21  
docs citations

21  
times ranked

731  
citing authors

#	ARTICLE	IF	CITATIONS
1	Visible Light Communication System Using an Organic Bulk Heterojunction Photodetector. <i>Sensors</i> , 2013, 13, 12266-12276.	3.8	57
2	Monitoring degradation mechanisms in PTB7:PC71BM photovoltaic cells by means of impedance spectroscopy. <i>Solar Energy Materials and Solar Cells</i> , 2016, 144, 422-428.	6.2	54
3	Impedance spectroscopy analysis of small molecule solution processed organic solar cell. <i>Solar Energy Materials and Solar Cells</i> , 2014, 128, 351-356.	6.2	52
4	Enhanced stability in semi-transparent PTB7/PC71BM photovoltaic cells. <i>Solar Energy Materials and Solar Cells</i> , 2015, 137, 44-49.	6.2	43
5	Performance of ITO-free inverted organic bulk heterojunction photodetectors: Comparison with standard device architecture. <i>Organic Electronics</i> , 2013, 14, 2484-2490.	2.6	34
6	An All-Organic Flexible Visible Light Communication System. <i>Sensors</i> , 2018, 18, 3045.	3.8	32
7	Visible Light Communication system using an organic emitter and a perovskite photodetector. <i>Organic Electronics</i> , 2019, 73, 292-298.	2.6	26
8	Modelling solar cell S-shaped I-V characteristics with DC lumped-parameter equivalent circuits a review. <i>Facta Universitatis - Series Electronics and Energetics</i> , 2017, 30, 327-350.	0.9	24
9	S-Shaped $I-V$ Characteristics of Organic Solar Cells: Solving Mazhari's Lumped-Parameter Equivalent Circuit Model. <i>IEEE Transactions on Electron Devices</i> , 2017, 64, 4622-4627.	3.0	22
10	Degradation of PEIE interlayer in PTB7:[70]PCBM based solar cells characterized by impedance spectroscopy. <i>Solar Energy</i> , 2017, 144, 105-110.	6.1	19
11	Exploring the impact of fractional-order capacitive behavior on the hysteresis effects of perovskite solar cells: A theoretical perspective. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2020, 90, 105371.	3.3	17
12	The dominant role of memory-based capacitive hysteretic currents in operation of photovoltaic perovskites. <i>Nano Energy</i> , 2020, 78, 105398.	16.0	14
13	Analytical Evaluation of the Ratio Between Injection and Space-Charge Limited Currents in Single Carrier Organic Diodes. <i>IEEE Transactions on Electron Devices</i> , 2008, 55, 674-680.	3.0	13
14	High-Bandwidth Organic Photodetector Analyzed by Impedance Spectroscopy. <i>IEEE Photonics Technology Letters</i> , 2012, 24, 1868-1871.	2.5	13
15	Unraveling the Key Relationship Between Perovskite Capacitive Memory, Long Timescale Cooperative Relaxation Phenomena, and Anomalous $I-V$ Hysteresis. <i>Solar Rrl</i> , 2021, 5, 2000707.	5.8	13
16	Bis(pyridylpyrazolate)platinum( $\pi$ ): a mechanochromic complex useful as a dopant for colour-tunable polymer OLEDs. <i>New Journal of Chemistry</i> , 2015, 39, 8467-8473.	2.8	12
17	Influence of solvent additive on the performance and aging behavior of non-fullerene organic solar cells. <i>Solar Energy</i> , 2022, 232, 120-127.	6.1	9
18	Identification of Degradation Mechanisms in Slot-Die-Coated Nonfullerene ITO-Free Organic Solar Cells Using Different Illumination Spectra. <i>ACS Applied Energy Materials</i> , 2020, 3, 6476-6485.	5.1	7

#	ARTICLE	IF	CITATIONS
19	P&#172: Determination of Hole Mobilities in New Blue Emitting Organic Diodes by Means of Impedance Spectroscopy. Digest of Technical Papers SID International Symposium, 2007, 38, 841-844.	0.3	1
20	Evaluation of Active Layer Thickness Influence in Long-Term Stability and Degradation Mechanisms in CsFAPbI <sub>3</sub> Perovskite Solar Cells. Applied Sciences (Switzerland), 2021, 11, 11668.	2.5	1
21	Analysis of dynamical mechanisms of CsFAPbI <sub>3</sub> perovskite solar cells. , 2019, , .		0