

# Marta Victoria

## List of Publications by Year in descending order

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62  
papers

1,687  
citations

394421

19  
h-index

302126

39  
g-index

64  
all docs

64  
docs citations

64  
times ranked

1308  
citing authors

#	ARTICLE	IF	CITATIONS
1	Performance assessment of using various solar radiation data in modelling large-scale solar thermal systems integrated in district heating networks. <i>Renewable Energy</i> , 2022, 190, 699-712.	8.9	11
2	Principal spatiotemporal mismatch and electricity price patterns in a highly decarbonized networked European power system. <i>IScience</i> , 2022, 25, 104380.	4.1	2
3	Speed of technological transformations required in Europe to achieve different climate goals. <i>Joule</i> , 2022, 6, 1066-1086.	24.0	45
4	Self-consumption for energy communities in Spain: A regional analysis under the new legal framework. <i>Energy Policy</i> , 2021, 150, 112144.	8.8	53
5	CO <sub>2</sub> quota attribution effects on the European electricity system comprised of self-centred actors. <i>Advances in Applied Energy</i> , 2021, 2, 100012.	13.2	6
6	Solar photovoltaics is ready to power a sustainable future. <i>Joule</i> , 2021, 5, 1041-1056.	24.0	265
7	Comparison of achromatic doublet on glass Fresnel lenses for concentrator photovoltaics. <i>Optics Express</i> , 2021, 29, 20601.	3.4	3
8	Exploring flexibility of near-optimal solutions to highly renewable energy systems. , 2021, , .		2
9	Future operation of hydropower in Europe under high renewable penetration and climate change. <i>IScience</i> , 2021, 24, 102999.	4.1	20
10	Modeling all alternative solutions for highly renewable energy systems. <i>Energy</i> , 2021, 234, 121294.	8.8	33
11	Improving Energy Transition Analysis Tool through Hydropower Statistical Modelling. <i>Energies</i> , 2021, 14, 98.	3.1	4
12	The role of photovoltaics in a sustainable European energy system under variable CO <sub>2</sub> emissions targets, transmission capacities, and costs assumptions. <i>Progress in Photovoltaics: Research and Applications</i> , 2020, 28, 483-492.	8.1	15
13	Early decarbonisation of the European energy system pays off. <i>Nature Communications</i> , 2020, 11, 6223.	12.8	123
14	Outdoor experimental characterization of novel high-efficiency high-concentrator photovoltaic (HCPV) modules using achromatic doublet on glass (ADG) Fresnel lenses as primary optics. <i>AIP Conference Proceedings</i> , 2019, , .	0.4	1
15	Using validated reanalysis data to investigate the impact of the PV system configurations at high penetration levels in European countries. <i>Progress in Photovoltaics: Research and Applications</i> , 2019, 27, 576-592.	8.1	20
16	The role of storage technologies throughout the decarbonisation of the sector-coupled European energy system. <i>Energy Conversion and Management</i> , 2019, 201, 111977.	9.2	138
17	Hourly-resolution analysis of electricity decarbonization in Spain (2017â€“2030). <i>Applied Energy</i> , 2019, 233-234, 674-690.	10.1	19
18	Spectral Impact on Multijunction Solar Cells Obtained by Means of Component Cells of a Different Technology. <i>IEEE Journal of Photovoltaics</i> , 2018, 8, 646-653.	2.5	8

#	ARTICLE	IF	CITATIONS
19	A strategy to ensure the correct thickness of optical couplers in concentrating photovoltaic systems. AIP Conference Proceedings, 2018, , .	0.4	0
20	Technical specification IEC TS 62989:2018 " Primary optics for concentrator photovoltaic systems. AIP Conference Proceedings, 2018, , .	0.4	0
21	From component to multi-junction solar cells for spectral monitoring. AIP Conference Proceedings, 2018, , .	0.4	1
22	Impact of the temperature dependence of CPV optics transmittance on the current mismatch of multi-junction solar cells. AIP Conference Proceedings, 2018, , .	0.4	2
23	Improvements in the manufacturing process of achromatic doublet on glass (ADG) Fresnel lens. AIP Conference Proceedings, 2018, , .	0.4	3
24	Experimental analysis and simulation of a production line for <scp>CPV</scp> modules: impact of defects, misalignments, and binning of receivers. Energy Science and Engineering, 2017, 5, 257-269.	4.0	12
25	A review of the promises and challenges of micro-concentrator photovoltaics. AIP Conference Proceedings, 2017, , .	0.4	55
26	Indoor Experimental Assessment of the Efficiency and Irradiance Spot of the Achromatic Doublet on Glass (ADG) Fresnel Lens for Concentrating Photovoltaics. Journal of Visualized Experiments, 2017, , .	0.3	3
27	Modeling of a concentrating photovoltaic module. , 2017, , .		1
28	Spectrally-resolved optical efficiency using a multi-junction cell as light sensor: Application cases. AIP Conference Proceedings, 2017, , .	0.4	0
29	Experimental characterization of achromatic doublet on glass (ADG) Fresnel lenses. AIP Conference Proceedings, 2017, , .	0.4	9
30	Determination of spectral variations by means of component cells useful for CPV rating and design. Progress in Photovoltaics: Research and Applications, 2016, 24, 663-679.	8.1	23
31	Hybrid dome with total internal reflector as a secondary optical element for CPV. AIP Conference Proceedings, 2016, , .	0.4	5
32	Measuring primary lens efficiency: A proposal for standardization. AIP Conference Proceedings, 2016, , .	0.4	4
33	A novel achromatic Fresnel lens for high concentrating photovoltaic systems. AIP Conference Proceedings, 2016, , .	0.4	7
34	A manufacturable achromatic fresnel lens for CPV. , 2016, , .		0
35	Using a multi-junction cell receiver as self-detector for spectrally-resolved optical efficiency measurement of concentrators. , 2016, , .		0
36	Assessment of the optical efficiency of a primary lens to be used in a CPV system. Solar Energy, 2016, 134, 406-415.	6.1	33

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37	Design and modeling of a cost-effective achromatic Fresnel lens for concentrating photovoltaics. Optics Express, 2016, 24, A1245.	3.4	35
38	Spectral study and classification of worldwide locations considering several multijunction solar cell technologies. Progress in Photovoltaics: Research and Applications, 2016, 24, 1214-1228.	8.1	15
39	Understanding causes and effects of non-uniform light distributions on multi-junction solar cells: Procedures for estimating efficiency losses. AIP Conference Proceedings, 2015, , .	0.4	14
40	Cost-free feed-in tariffs for renewable energy deployment in Spain. Renewable Energy, 2015, 81, 411-420.	8.9	47
41	Temperature effects on two-stage optics made of silicone. AIP Conference Proceedings, 2014, , .	0.4	2
42	Experimental analysis of a photovoltaic concentrator based on a single reflective stage immersed in an optical fluid. Progress in Photovoltaics: Research and Applications, 2014, 22, 1213-1225.	8.1	8
43	On the analytical approach for modeling photovoltaic systems behavior. Journal of Power Sources, 2014, 247, 467-474.	7.8	192
44	Characterization of the spatial distribution of irradiance and spectrum in concentrating photovoltaic systems and their effect on multi-junction solar cells. Progress in Photovoltaics: Research and Applications, 2013, 21, 308-318.	8.1	74
45	Durability of dielectric fluids for concentrating photovoltaic systems. Solar Energy Materials and Solar Cells, 2013, 113, 31-36.	6.2	17
46	Tuning the current ratio of a CPV system to maximize the energy harvesting in a particular location. , 2013, , .		15
47	Characterizing FluidReflex Optical Transfer Function. Japanese Journal of Applied Physics, 2012, 51, 10ND06.	1.5	2
48	Antireflective coatings for multijunction solar cells under wide-angle ray bundles. Optics Express, 2012, 20, 8136.	3.4	39
49	Characterization Capabilities of Solar Simulators for Concentrator Photovoltaic Modules. Japanese Journal of Applied Physics, 2012, 51, 10ND12.	1.5	4
50	Probing the effects of non-uniform light beams and chromatic aberration on the performance of concentrators using multijunction cells. , 2012, , .		3
51	Outdoor performance of fluid dielectric CPV modules. AIP Conference Proceedings, 2012, , .	0.4	1
52	Concentration photovoltaic optical system irradiance distribution measurements and its effect on multi-junction solar cells. Progress in Photovoltaics: Research and Applications, 2012, 20, 423-430.	8.1	65
53	Power rating of CPV systems based on spectrally corrected DNI. , 2012, , .		29
54	Characterizing FluidReflex Optical Transfer Function. Japanese Journal of Applied Physics, 2012, 51, 10ND06.	1.5	2

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55	Characterization Capabilities of Solar Simulators for Concentrator Photovoltaic Modules. Japanese Journal of Applied Physics, 2012, 51, 10ND12.	1.5	6
56	FluidReflex Concentrator: From Elementary Unit to Module. , 2011, , .		1
57	Effects of Temperature on Hybrid Lens Performance. AIP Conference Proceedings, 2011, , .	0.4	31
58	Spatial and spectral non-uniform irradiance distribution effects on multijunction solar cells. , 2011, , .		1
59	Indoor Characterization of Multi-Junction Solar Cells Under Non Uniform Light Patterns. , 2010, , .		7
60	Optical Characterization of FluidReflex Concentrator. , 2010, , .		0
61	Comparative analysis of different secondary optical elements for aspheric primary lenses. Optics Express, 2009, 17, 6487.	3.4	140
62	NACIR: A new project on CPV'S funded by the European comission under 7THFP. , 2009, , .		0