

Daniel Chemisana

List of Publications by Year in Descending Order

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

101
papers

2,494
citations

32
h-index

46
g-index

106
ext. papers

2,938
ext. citations

7.7
avg, IF

5.83
L-index

#	Paper	IF	Citations
101	Polygeneration systems in buildings 2022 , 351-410		0
100	Effect of non-uniformity on concentrator multi-junction solar cells equipped with refractive secondary optics under shading conditions. <i>Energy</i> , 2022 , 238, 122044	7.9	1
99	User behaviour models to forecast electricity consumption of residential customers based on smart metering data. <i>Energy Reports</i> , 2022 , 8, 3680-3691	4.6	2
98	Study of Full-Color Multiplexed Transmission Holograms of Diffusing Objects Recorded in Photopolymer Bayfol HX. <i>Photonics</i> , 2021 , 8, 465	2.2	1
97	Generalized Dirac Equation for a particle in a gravitational field. <i>General Relativity and Gravitation</i> , 2021 , 53, 1	2.3	1
96	Investigation of AlInAsSb/GaSb tandem cells \square A first step towards GaSb-based multi-junction solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2021 , 219, 110795	6.4	5
95	Photovoltaic/thermal systems based on concentrating and non-concentrating technologies: Working fluids at low, medium and high temperatures. <i>Renewable and Sustainable Energy Reviews</i> , 2021 , 137, 110625	16.2	11
94	Quantum Fluctuations and the N-Slit Interference. <i>International Journal of Theoretical Physics</i> , 2021 , 60, 1-9	1.1	1
93	Data-Driven Virtual Replication of Thermostatically Controlled Domestic Heating Systems. <i>Energies</i> , 2021 , 14, 5430	3.1	1
92	Full-color multiplexed reflection hologram of diffusing objects recorded by using simultaneous exposure with different times in photopolymer Bayfol \square HX. <i>Optics and Laser Technology</i> , 2021 , 143, 107303	4.3	1
91	A data-driven method for unsupervised electricity consumption characterisation at the district level and beyond. <i>Energy Reports</i> , 2021 , 7, 5667-5684	4.6	2
90	Graph Theory-Based Characterization and Classification of Household Photovoltaics. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 10999	2.6	0
89	Quantum fluctuations and the Casimir effect. <i>International Journal of Modern Physics D</i> , 2020 , 29, 2050059	2.9	4
88	Stacked volume holographic gratings for extending the operational wavelength range in LED and solar applications. <i>Applied Optics</i> , 2020 , 59, 2569-2579	1.7	4
87	Solar Cells Operating under Thermal Stress. <i>Cell Reports Physical Science</i> , 2020 , 1, 100267	6.1	4
86	Location-Specific Spectral and Thermal Effects in Tracking and Fixed Tilt Photovoltaic Systems. <i>IScience</i> , 2020 , 23, 101634	6.1	2
85	Corpuscular interaction gravity from uncertainty principle. <i>Europhysics Letters</i> , 2020 , 130, 60002	1.6	5

84	Storage systems for building-integrated photovoltaic (BIPV) and building-integrated photovoltaic/thermal (BIPVT) installations: Environmental profile and other aspects. <i>Science of the Total Environment</i> , 2020 , 699, 134269	10.2	26
83	Spectral nature of soiling and its impact on multi-junction based concentrator systems. <i>Solar Energy Materials and Solar Cells</i> , 2019 , 201, 110118	6.4	5
82	Fine-Tuning of Multijunction Solar Cells: An In-Depth Evaluation. <i>IEEE Journal of Photovoltaics</i> , 2019 , 9, 1637-1643	3.7	1
81	Building-Integrated Photovoltaic/Thermal (BIPVT): LCA of a façade-integrated prototype and issues about human health, ecosystems, resources. <i>Science of the Total Environment</i> , 2019 , 660, 1576-1592	10.2	15
80	Payback times and multiple midpoint/endpoint impact categories about Building-Integrated Solar Thermal (BIST) collectors. <i>Science of the Total Environment</i> , 2019 , 658, 1039-1055	10.2	10
79	Energy and Luminous Performance Investigation of an OPV/ETFE Glazing Element for Building Integration. <i>Energies</i> , 2019 , 12, 1870	3.1	7
78	Fundamentals of solar cells 2019 , 3-33		2
77	Life-cycle assessment of photovoltaic systems 2019 , 35-73		1
76	Outdoor performance evaluation of a holographic solar concentrator optimized for building integration. <i>Applied Energy</i> , 2019 , 250, 1073-1084	10.7	9
75	Biogas production by means of an anaerobic-digestion plant in France: LCA of greenhouse-gas emissions and other environmental indicators. <i>Science of the Total Environment</i> , 2019 , 670, 1226-1239	10.2	20
74	Dynamic performance assessment of multidimensional heat transfer in buildings. <i>Journal of Building Engineering</i> , 2019 , 26, 100893	5.2	6
73	Characterisation and impact of non-uniformity on multi-junction solar cells (MJSC) caused by concentrator optics 2019 ,		3
72	Biogas from a full scale digester operated in psychrophilic conditions and fed only with fruit and vegetable waste. <i>Renewable Energy</i> , 2019 , 133, 676-684	8.1	37
71	Performance and stability of semitransparent OPVs for building integration: A benchmarking analysis. <i>Renewable Energy</i> , 2019 , 137, 177-188	8.1	14
70	Numerical study of PCM integration impact on overall performances of a highly building-integrated solar collector. <i>Renewable Energy</i> , 2019 , 137, 10-19	8.1	19
69	Cumulative energy demand and global warming potential of a building-integrated solar thermal system with/without phase change material. <i>Journal of Environmental Management</i> , 2018 , 212, 301-310	7.9	18
68	Concentrating photovoltaic/thermal system with thermal and electricity storage: CO ₂ .eq emissions and multiple environmental indicators. <i>Journal of Cleaner Production</i> , 2018 , 192, 376-389	10.3	8
67	Fluid-based spectrally selective filters for direct immersed PVT solar systems in building applications. <i>Renewable Energy</i> , 2018 , 123, 263-272	8.1	21

66	Mid-infrared emissivity of crystalline silicon solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2018 , 174, 607-615	6.4	50
65	Ethylene tetrafluoroethylene (ETFE) material: Critical issues and applications with emphasis on buildings. <i>Renewable and Sustainable Energy Reviews</i> , 2018 , 82, 2186-2201	16.2	23
64	Full modeling and experimental validation of cylindrical holographic lenses recorded in Bayfol HX photopolymer and partly operating in the transition regime for solar concentration. <i>Optics Express</i> , 2018 , 26, A398-A412	3.3	9
63	Performance of a dielectric PVT concentrator for building-façade integration. <i>Optics Express</i> , 2018 , 26, A892-A903	3.3	5
62	EMPOWERING, a Smart Big Data Framework for Sustainable Electricity Suppliers. <i>IEEE Access</i> , 2018 , 6, 71132-71142	3.5	4
61	Roadmap for the next-generation of hybrid photovoltaic-thermal solar energy collectors. <i>Solar Energy</i> , 2018 , 174, 386-398	6.8	45
60	Energetic simulation of a dielectric photovoltaic-thermal concentrator. <i>Solar Energy</i> , 2018 , 169, 374-385	6.8	11
59	Building-integrated solar thermal system with/without phase change material: Life cycle assessment based on ReCiPe, USEtox and Ecological footprint. <i>Journal of Cleaner Production</i> , 2018 , 193, 672-683	10.3	27
58	Conjugate refractive-reflective based building integrated photovoltaic system. <i>Materials Letters</i> , 2018 , 228, 25-28	3.3	2
57	Concentrating solar systems: Life Cycle Assessment (LCA) and environmental issues. <i>Renewable and Sustainable Energy Reviews</i> , 2017 , 78, 916-932	16.2	59
56	Energy analysis of holographic lenses for solar concentration 2017 ,		3
55	Disaggregation process for dynamic multidimensional heat flux in building simulation. <i>Energy and Buildings</i> , 2017 , 148, 298-310	7	5
54	Is conversion efficiency still relevant to qualify advanced multi-junction solar cells?. <i>Progress in Photovoltaics: Research and Applications</i> , 2017 , 25, 242-254	6.8	14
53	Dielectric-based 3D building-integrated concentrating photovoltaic modules: An environmental life-cycle assessment. <i>Energy and Buildings</i> , 2017 , 138, 514-525	7	23
52	Photovoltaic/thermal (PVT) systems: A review with emphasis on environmental issues. <i>Renewable Energy</i> , 2017 , 105, 270-287	8.1	109
51	Life cycle assessment of a building added concentrating photovoltaic system (BACPV). <i>Energy Procedia</i> , 2017 , 128, 194-201	2.3	4
50	Improved Light Incoupling in Planar Solar Cells via Improved Texture Morphology of PDMS Scattering Layer 2017 ,		1
49	Design and characterization of refractive secondary optical elements for a point-focus Fresnel lens-based high CPV system 2017 ,		1

48	Experimental performance of a Fresnel-transmission PVT concentrator for building-façade integration. <i>Renewable Energy</i> , 2016 , 85, 564-572	8.1	41
47	Characterization of volume holographic optical elements recorded in Bayfol HX photopolymer for solar photovoltaic applications. <i>Optics Express</i> , 2016 , 24, A720-30	3.3	37
46	Holographic solar energy systems: The role of optical elements. <i>Renewable and Sustainable Energy Reviews</i> , 2016 , 59, 130-140	16.2	17
45	Energy Simulation of a Holographic PVT Concentrating System for Building Integration Applications. <i>Energies</i> , 2016 , 9, 577	3.1	6
44	Specially designed solar cells for hybrid photovoltaic-thermal generators 2016 ,		3
43	Environmental assessment of a building-integrated linear dielectric-based concentrating photovoltaic according to multiple life-cycle indicators. <i>Journal of Cleaner Production</i> , 2016 , 131, 773-784	10.3	24
42	Building-integrated solar thermal systems based on vacuum-tube technology: Critical factors focusing on life-cycle environmental profile. <i>Renewable and Sustainable Energy Reviews</i> , 2016 , 65, 1199-1215	16.2	26
41	Environmental assessment of a pork-production system in North-East of Spain focusing on life-cycle swine nutrition. <i>Journal of Cleaner Production</i> , 2016 , 137, 105-115	10.3	25
40	Evaluation of photovoltaic-green and other roofing systems by means of ReCiPe and multiple life cycle based environmental indicators. <i>Building and Environment</i> , 2015 , 93, 376-384	6.5	35
39	Modelling and simulation of Building-Integrated solar thermal systems: Behaviour of the coupled building/system configuration. <i>Renewable and Sustainable Energy Reviews</i> , 2015 , 48, 178-191	16.2	53
38	Broadband behavior of transmission volume holographic optical elements for solar concentration. <i>Optics Express</i> , 2015 , 23, A671-81	3.3	18
37	Life cycle energy analysis and embodied carbon of a linear dielectric-based concentrating photovoltaic appropriate for building-integrated applications. <i>Energy and Buildings</i> , 2015 , 107, 366-375	7	24
36	Building-Integration of High-Concentration Photovoltaic Systems. <i>Green Energy and Technology</i> , 2015 , 353-376	0.6	4
35	Evaluation of a multi-stage guided search approach for the calibration of building energy simulation models. <i>Energy and Buildings</i> , 2015 , 87, 370-385	7	32
34	A critical analysis of factors affecting photovoltaic-green roof performance. <i>Renewable and Sustainable Energy Reviews</i> , 2015 , 43, 264-280	16.2	38
33	Review and perspectives on Life Cycle Analysis of solar technologies with emphasis on building-integrated solar thermal systems. <i>Renewable Energy</i> , 2015 , 75, 833-846	8.1	40
32	The environmental performance of a building-integrated solar thermal collector, based on multiple approaches and life-cycle impact assessment methodologies. <i>Building and Environment</i> , 2015 , 87, 45-58	6.5	42
31	Modelling and simulation of Building-Integrated solar thermal systems: Behaviour of the system. <i>Renewable and Sustainable Energy Reviews</i> , 2015 , 45, 36-51	16.2	52

30	Photovoltaic-green roofs: An experimental evaluation of system performance. <i>Applied Energy</i> , 2014 , 119, 246-256	10.7	74
29	Photovoltaic-green roofs: a life cycle assessment approach with emphasis on warm months of Mediterranean climate. <i>Journal of Cleaner Production</i> , 2014 , 72, 57-75	10.3	31
28	Life cycle analysis of a building-integrated solar thermal collector, based on embodied energy and embodied carbon methodologies. <i>Energy and Buildings</i> , 2014 , 84, 378-387	7	54
27	Enhancing performance of a linear dielectric based concentrating photovoltaic system using a reflective film along the edge. <i>Energy</i> , 2014 , 73, 177-191	7.9	38
26	Performance analysis of a dielectric based 3D building integrated concentrating photovoltaic system. <i>Solar Energy</i> , 2014 , 103, 525-540	6.8	61
25	Holographic lenses for building integrated concentrating photovoltaics. <i>Applied Energy</i> , 2013 , 110, 227-235	10.7	35
24	Optical performance of solar reflective concentrators: A simple method for optical assessment. <i>Renewable Energy</i> , 2013 , 57, 120-129	8.1	17
23	Experimental study of integrated collector storage solar water heaters. <i>Renewable Energy</i> , 2013 , 50, 1083-1094	8.1	38
22	Solar radiation manipulations and their role in greenhouse claddings: Fresnel lenses, NIR- and UV-blocking materials. <i>Renewable and Sustainable Energy Reviews</i> , 2013 , 18, 271-287	16.2	51
21	Solar radiation manipulations and their role in greenhouse claddings: Fluorescent solar concentrators, photoselective and other materials. <i>Renewable and Sustainable Energy Reviews</i> , 2013 , 27, 175-190	16.2	58
20	Numerical analysis of the most appropriate heat transfer correlations for free ventilated double skin photovoltaic façades. <i>Applied Thermal Engineering</i> , 2013 , 57, 57-68	5.8	18
19	Hybrid photovoltaic-thermal solar collectors dynamic modeling. <i>Applied Energy</i> , 2013 , 101, 797-807	10.7	58
18	Building integration of concentrating systems for solar cooling applications. <i>Applied Thermal Engineering</i> , 2013 , 50, 1472-1479	5.8	48
17	Life Cycle Assessment of a Building Integrated Concentrated Photovoltaic scheme. <i>Applied Energy</i> , 2013 , 111, 505-514	10.7	82
16	Solar Power Generation. <i>International Journal of Photoenergy</i> , 2013 , 2013, 1-2	2.1	4
15	Very high fluxes for concentrating photovoltaics: Considerations from simple experiments and modeling. <i>Renewable Energy</i> , 2012 , 38, 31-39	8.1	41
14	An outdoor Test Reference Environment for double skin applications of Building Integrated PhotoVoltaic Systems. <i>Energy and Buildings</i> , 2012 , 50, 63-73	7	24
13	A dynamic model based on the piston flow concept for the thermal characterization of solar collectors. <i>Applied Energy</i> , 2012 , 94, 244-250	10.7	16

12	Numerical study of a hybrid jet impingement/micro-channel cooling scheme. <i>Applied Thermal Engineering</i> , 2012 , 33-34, 237-245	5.8	38
11	Effect of a hybrid jet impingement/micro-channel cooling device on the performance of densely packed PV cells under high concentration. <i>Solar Energy</i> , 2011 , 85, 2655-2665	6.8	53
10	Characterization of a photovoltaic-thermal module for Fresnel linear concentrator. <i>Energy Conversion and Management</i> , 2011 , 52, 3234-3240	10.6	52
9	Design and optical performance of a nonimaging Fresnel transmissive concentrator for building integration applications. <i>Energy Conversion and Management</i> , 2011 , 52, 3241-3248	10.6	23
8	Electrical performance increase of concentrator solar cells under Gaussian temperature profiles. <i>Progress in Photovoltaics: Research and Applications</i> , 2011 , 21, n/a-n/a	6.8	3
7	Characterization of Fresnel lens optical performances using an opal diffuser. <i>Energy Conversion and Management</i> , 2011 , 52, 658-663	10.6	20
6	Building Integrated Concentrating Photovoltaics: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2011 , 15, 603-611	16.2	215
5	New CPV Systems With Static Reflectors 2010 ,		2
4	Linear Fresnel concentrators for building integrated applications. <i>Energy Conversion and Management</i> , 2010 , 51, 1476-1480	10.6	30
3	An experimental study of a new hybrid jet impingement/micro-channel cooling scheme. <i>Applied Thermal Engineering</i> , 2010 , 30, 2058-2066	5.8	58
2	Comparison of Fresnel concentrators for building integrated photovoltaics. <i>Energy Conversion and Management</i> , 2009 , 50, 1079-1084	10.6	41
1	A two-dimensional finite element model of front surface current flow in cells under non-uniform, concentrated illumination. <i>Solar Energy</i> , 2009 , 83, 1459-1465	6.8	31