

Daniel Chemisana

List of Publications by Citations

Source: <https://exaly.com/author-pdf/5692003/daniel-chemisana-publications-by-citations.pdf>

Version: 2024-04-27

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.

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	Building Integrated Concentrating Photovoltaics: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2011 , 15, 603-611	16.2	215
100	Photovoltaic/thermal (PVT) systems: A review with emphasis on environmental issues. <i>Renewable Energy</i> , 2017 , 105, 270-287	8.1	109
99	Life Cycle Assessment of a Building Integrated Concentrated Photovoltaic scheme. <i>Applied Energy</i> , 2013 , 111, 505-514	10.7	82
98	Photovoltaic-green roofs: An experimental evaluation of system performance. <i>Applied Energy</i> , 2014 , 119, 246-256	10.7	74
97	Performance analysis of a dielectric based 3D building integrated concentrating photovoltaic system. <i>Solar Energy</i> , 2014 , 103, 525-540	6.8	61
96	Concentrating solar systems: Life Cycle Assessment (LCA) and environmental issues. <i>Renewable and Sustainable Energy Reviews</i> , 2017 , 78, 916-932	16.2	59
95	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
94	Hybrid photovoltaic-thermal solar collectors dynamic modeling. <i>Applied Energy</i> , 2013 , 101, 797-807	10.7	58
93	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
92	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
91	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
90	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
89	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
88	Characterization of a photovoltaic-thermal module for Fresnel linear concentrator. <i>Energy Conversion and Management</i> , 2011 , 52, 3234-3240	10.6	52
87	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
86	Mid-infrared emissivity of crystalline silicon solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2018 , 174, 607-615	6.4	50
85	Building integration of concentrating systems for solar cooling applications. <i>Applied Thermal Engineering</i> , 2013 , 50, 1472-1479	5.8	48

84	Roadmap for the next-generation of hybrid photovoltaic-thermal solar energy collectors. <i>Solar Energy</i> , 2018 , 174, 386-398	6.8	45
83	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
82	Experimental performance of a Fresnel-transmission PVT concentrator for building-façade integration. <i>Renewable Energy</i> , 2016 , 85, 564-572	8.1	41
81	Very high fluxes for concentrating photovoltaics: Considerations from simple experiments and modeling. <i>Renewable Energy</i> , 2012 , 38, 31-39	8.1	41
80	Comparison of Fresnel concentrators for building integrated photovoltaics. <i>Energy Conversion and Management</i> , 2009 , 50, 1079-1084	10.6	41
79	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
78	A critical analysis of factors affecting photovoltaic-green roof performance. <i>Renewable and Sustainable Energy Reviews</i> , 2015 , 43, 264-280	16.2	38
77	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
76	Experimental study of integrated collector storage solar water heaters. <i>Renewable Energy</i> , 2013 , 50, 1083-1094	8.1	38
75	Numerical study of a hybrid jet impingement/micro-channel cooling scheme. <i>Applied Thermal Engineering</i> , 2012 , 33-34, 237-245	5.8	38
74	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
73	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
72	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
71	Holographic lenses for building integrated concentrating photovoltaics. <i>Applied Energy</i> , 2013 , 110, 227-235	10.7	35
70	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
69	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
68	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
67	Linear Fresnel concentrators for building integrated applications. <i>Energy Conversion and Management</i> , 2010 , 51, 1476-1480	10.6	30

66	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
65	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
64	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
63	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
62	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
61	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
60	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
59	Dielectric-based 3D building-integrated concentrating photovoltaic modules: An environmental life-cycle assessment. <i>Energy and Buildings</i> , 2017 , 138, 514-525	7	23
58	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
57	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
56	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
55	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
54	Characterization of Fresnel lens optical performances using an opal diffuser. <i>Energy Conversion and Management</i> , 2011 , 52, 658-663	10.6	20
53	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
52	Broadband behavior of transmission volume holographic optical elements for solar concentration. <i>Optics Express</i> , 2015 , 23, A671-81	3.3	18
51	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
50	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
49	Holographic solar energy systems: The role of optical elements. <i>Renewable and Sustainable Energy Reviews</i> , 2016 , 59, 130-140	16.2	17

48	Optical performance of solar reflective concentrators: A simple method for optical assessment. <i>Renewable Energy</i> , 2013 , 57, 120-129	8.1	17
47	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
46	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
45	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
44	Performance and stability of semitransparent OPVs for building integration: A benchmarking analysis. <i>Renewable Energy</i> , 2019 , 137, 177-188	8.1	14
43	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
42	Energetic simulation of a dielectric photovoltaic-thermal concentrator. <i>Solar Energy</i> , 2018 , 169, 374-385	6.8	11
41	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
40	Outdoor performance evaluation of a holographic solar concentrator optimized for building integration. <i>Applied Energy</i> , 2019 , 250, 1073-1084	10.7	9
39	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
38	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
37	Energy and Luminous Performance Investigation of an OPV/ETFE Glazing Element for Building Integration. <i>Energies</i> , 2019 , 12, 1870	3.1	7
36	Dynamic performance assessment of multidimensional heat transfer in buildings. <i>Journal of Building Engineering</i> , 2019 , 26, 100893	5.2	6
35	Energy Simulation of a Holographic PVT Concentrating System for Building Integration Applications. <i>Energies</i> , 2016 , 9, 577	3.1	6
34	Disaggregation process for dynamic multidimensional heat flux in building simulation. <i>Energy and Buildings</i> , 2017 , 148, 298-310	7	5
33	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
32	Performance of a dielectric PVT concentrator for building-façade integration. <i>Optics Express</i> , 2018 , 26, A892-A903	3.3	5
31	Corpuscular interaction gravity from uncertainty principle. <i>Europhysics Letters</i> , 2020 , 130, 60002	1.6	5

30	Investigation of AllnAsSb/GaSb tandem cells [A first step towards GaSb-based multi-junction solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2021 , 219, 110795	6.4	5
29	Life cycle assessment of a building added concentrating photovoltaic system (BACPV). <i>Energy Procedia</i> , 2017 , 128, 194-201	2.3	4
28	Building-Integration of High-Concentration Photovoltaic Systems. <i>Green Energy and Technology</i> , 2015 , 353-376	0.6	4
27	Quantum fluctuations and the Casimir effect. <i>International Journal of Modern Physics D</i> , 2020 , 29, 2050059	5.2	4
26	Solar Power Generation. <i>International Journal of Photoenergy</i> , 2013 , 2013, 1-2	2.1	4
25	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
24	Solar Cells Operating under Thermal Stress. <i>Cell Reports Physical Science</i> , 2020 , 1, 100267	6.1	4
23	EMPOWERING, a Smart Big Data Framework for Sustainable Electricity Suppliers. <i>IEEE Access</i> , 2018 , 6, 71132-71142	3.5	4
22	Energy analysis of holographic lenses for solar concentration 2017 ,		3
21	Characterisation and impact of non-uniformity on multi-junction solar cells (MJSC) caused by concentrator optics 2019 ,		3
20	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
19	Specially designed solar cells for hybrid photovoltaic-thermal generators 2016 ,		3
18	Fundamentals of solar cells 2019 , 3-33		2
17	New CPV Systems With Static Reflectors 2010 ,		2
16	Location-Specific Spectral and Thermal Effects in Tracking and Fixed Tilt Photovoltaic Systems. <i>IScience</i> , 2020 , 23, 101634	6.1	2
15	Conjugate refractive/reflective based building integrated photovoltaic system. <i>Materials Letters</i> , 2018 , 228, 25-28	3.3	2
14	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
13	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

12	Fine-Tuning of Multijunction Solar Cells: An In-Depth Evaluation. <i>IEEE Journal of Photovoltaics</i> , 2019 , 9, 1637-1643	3.7	1
11	Life-cycle assessment of photovoltaic systems 2019 , 35-73		1
10	Improved Light Incoupling in Planar Solar Cells via Improved Texture Morphology of PDMS Scattering Layer 2017 ,		1
9	Design and characterization of refractive secondary optical elements for a point-focus Fresnel lens-based high CPV system 2017 ,		1
8	Study of Full-Color Multiplexed Transmission Holograms of Diffusing Objects Recorded in Photopolymer Bayfol HX. <i>Photonics</i> , 2021 , 8, 465	2.2	1
7	Generalized Dirac Equation for a particle in a gravitational field. <i>General Relativity and Gravitation</i> , 2021 , 53, 1	2.3	1
6	Quantum Fluctuations and the N-Slit Interference. <i>International Journal of Theoretical Physics</i> , 2021 , 60, 1-9	1.1	1
5	Data-Driven Virtual Replication of Thermostatically Controlled Domestic Heating Systems. <i>Energies</i> , 2021 , 14, 5430	3.1	1
4	Full-color multiplexed reflection hologram of diffusing objects recorded by using simultaneous exposure with different times in photopolymer Bayfol HX. <i>Optics and Laser Technology</i> , 2021 , 143, 107403	4.3	1
3	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
2	Polygeneration systems in buildings 2022 , 351-410		0
1	Graph Theory-Based Characterization and Classification of Household Photovoltaics. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 10999	2.6	0