

Angèle H M E Reinders

List of Publications by Year in descending order

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83
papers

1,631
citations

361045

20
h-index

315357

38
g-index

101
all docs

101
docs citations

101
times ranked

1681
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental research on the use of micro-encapsulated Phase Change Materials to store solar energy in concrete floors and to save energy in Dutch houses. <i>Solar Energy</i> , 2011, 85, 1007-1020.	2.9	198
2	The direct and indirect energy requirement of households in the European Union. <i>Energy Policy</i> , 2003, 31, 139-153.	4.2	189
3	Empowering the end-user in smart grids: Recommendations for the design of products and services. <i>Energy Policy</i> , 2013, 61, 151-161.	4.2	167
4	Comparison of the indoor performance of 12 commercial <sc>PV</sc> products by a simple model. <i>Energy Science and Engineering</i> , 2016, 4, 69-85.	1.9	60
5	A comparison of 15 polymers for application in photovoltaic modules in PV-powered boats. <i>Applied Energy</i> , 2012, 92, 286-297.	5.1	59
6	Evaluation of energy performance indicators and financial aspects of energy saving techniques in residential real estate. <i>Energy and Buildings</i> , 2010, 42, 618-629.	3.1	58
7	A comparison of performance of flat and bent photovoltaic luminescent solar concentrators. <i>Solar Energy</i> , 2015, 112, 120-127.	2.9	46
8	Luminescent solar concentrator photovoltaic designs. <i>Japanese Journal of Applied Physics</i> , 2018, 57, 08RD10.	0.8	44
9	Reviewing the potential and cost-effectiveness of off-grid PV systems in Indonesia on a provincial level. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 52, 757-769.	8.2	43
10	Sukatani revisited: on the performance of nine-year-old solar home systems and street lighting systems in Indonesia. <i>Renewable and Sustainable Energy Reviews</i> , 1999, 3, 1-47.	8.2	39
11	Optimizing a steam-methane reformer for hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2009, 34, 285-292.	3.8	39
12	Reviewing the potential and cost-effectiveness of grid-connected solar PV in Indonesia on a provincial level. <i>Renewable and Sustainable Energy Reviews</i> , 2013, 27, 315-324.	8.2	39
13	Overview of Design Issues in Product-Integrated Photovoltaics. <i>Energy Technology</i> , 2014, 2, 229-242.	1.8	38
14	A feasibility study of solar PV-powered electric cars using an interdisciplinary modeling approach for the electricity balance, CO ₂ emissions, and economic aspects: The cases of The Netherlands, Norway, Brazil, and Australia. <i>Progress in Photovoltaics: Research and Applications</i> , 2020, 28, 517-532.	4.4	36
15	Comparison of two residential Smart Grid pilots in the Netherlands and in the USA, focusing on energy performance and user experiences. <i>Applied Energy</i> , 2017, 191, 264-275.	5.1	29
16	Environmental Impacts of Integrated Photovoltaic Modules in Light Utility Electric Vehicles. <i>Energies</i> , 2020, 13, 5120.	1.6	29
17	Measured Efficiency of a Luminescent Solar Concentrator PV Module Called Leaf Roof. <i>IEEE Journal of Photovoltaics</i> , 2017, 7, 1663-1666.	1.5	27
18	Review of technology specific degradation in crystalline silicon, cadmium telluride, copper indium gallium selenide, dye sensitised, organic and perovskite solar cells in photovoltaic modules: Understanding how reliability improvements in mature technologies can enhance emerging technologies. <i>Progress in Photovoltaics: Research and Applications</i> , 2022, 30, 1365-1392.	4.4	26

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19	A comparative life cycle analysis of low power PV lighting products for rural areas in South East Asia. <i>Renewable Energy</i> , 2012, 41, 96-104.	4.3	23
20	Autonomous Monitoring of Line-to-Line Faults in Photovoltaic Systems by Feature Selection and Parameter Optimization of Support Vector Machine Using Genetic Algorithms. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 5527.	1.3	22
21	Technical, Financial, and Environmental Feasibility Analysis of Photovoltaic EV Charging Stations With Energy Storage in China and the United States. <i>IEEE Journal of Photovoltaics</i> , 2020, 10, 1892-1899.	1.5	22
22	Training and Testing of a Single-Layer LSTM Network for Near-Future Solar Forecasting. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 5873.	1.3	19
23	Designing innovative solutions for solar-powered electric mobility applications. <i>Progress in Photovoltaics: Research and Applications</i> , 2021, 29, 802-818.	4.4	19
24	An Overview of Existing Experiences with Solar-Powered E-Bikes. <i>Energies</i> , 2018, 11, 2129.	1.6	18
25	Simulation of Bifacial and Monofacial Silicon Solar Cell Short-Circuit Current Density Under Measured Spectro-Angular Solar Irradiance. <i>IEEE Journal of Photovoltaics</i> , 2020, 10, 1803-1815.	1.5	18
26	Performance Analysis and Degradation of a Large Fleet of PV Systems. <i>IEEE Journal of Photovoltaics</i> , 2021, 11, 1312-1318.	1.5	18
27	An Empirical Model for Rack-Mounted PV Module Temperatures for Southeast Asian Locations Evaluated for Minute Time Scales. <i>IEEE Journal of Photovoltaics</i> , 2015, 5, 774-782.	1.5	17
28	Simulation of a Novel Configuration for Luminescent Solar Concentrator Photovoltaic Devices Using Bifacial Silicon Solar Cells. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 871.	1.3	17
29	Perceived and Reported Reliability of the Electricity Supply at Three Urban Locations in Indonesia. <i>Energies</i> , 2018, 11, 140.	1.6	15
30	Assessing the Implementation Potential of PCMs: The Situation for Residential Buildings in the Netherlands. <i>Energy Procedia</i> , 2016, 96, 17-32.	1.8	14
31	Resonance Instability of Photovoltaic E-Bike Charging Stations: Control Parameters Analysis, Modeling and Experiment. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 252.	1.3	13
32	Measured power conversion efficiencies of bifacial luminescent solar concentrator photovoltaic devices of the mosaic series. <i>Progress in Photovoltaics: Research and Applications</i> , 2022, 30, 726-739.	4.4	13
33	An Exploration of the Three-Layer Model Including Stakeholders, Markets and Technologies for Assessments of Residential Smart Grids. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 2363.	1.3	12
34	A Comparison of Households' Energy Balance in Residential Smart Grid Pilots in the Netherlands. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 2993.	1.3	12
35	Smart Appliances for Efficient Integration of Solar Energy: A Dutch Case Study of a Residential Smart Grid Pilot. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 581.	1.3	12
36	Real-Time Irradiance Simulation for PV Products and Building Integrated PV in a Virtual Reality Environment. <i>IEEE Journal of Photovoltaics</i> , 2012, 2, 352-358.	1.5	11

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37	Insights from Stakeholders of Five Residential Smart Grid Pilot Projects in the Netherlands. Smart Grid and Renewable Energy, 2016, 07, 1-15.	0.7	11
38	Leaf roof " Designing luminescent solar concentrating PV roof tiles. , 2016, , .		10
39	Operational Performance and Degradation of PV Systems Consisting of Six Technologies in Three Climates. Applied Sciences (Switzerland), 2020, 10, 5412.	1.3	10
40	Product-Integrated Photovoltaics. , 2012, , 709-732.		9
41	Design it with LSCs; an exploration of applications for Luminescent Solar Concentrator PV technologies. , 2017, , .		8
42	Simulations of Luminescent Solar Concentrator Bifacial Photovoltaic Mosaic Devices Containing Four Different Organic Luminophores. IEEE Journal of Photovoltaics, 2022, 12, 771-777.	1.5	8
43	Performance of the first flight experiment with dedicated space CIGS cells onboard the Delfi-C3 nanosatellite. , 2010, , .		7
44	A new design for luminescent solar concentrating PV roof tiles. , 2015, , .		7
45	How do users interact with photovoltaic-powered products? Investigating 100 'lead-users' and 6 PV products. Journal of Design Research, 2016, 14, 66.	0.1	6
46	The Role of Photovoltaics (PV) in the Present and Future Situation of Suriname. Energies, 2019, 12, 185.	1.6	6
47	Energy Balance, Cost and Architectural Design Features of 24 Building Integrated Photovoltaic Projects Using a Modelling Approach. Applied Sciences (Switzerland), 2020, 10, 8860.	1.3	6
48	Using CAD software to simulate PV energy yield: Predicting the charge yield of solar cells incorporated into a PV powered consumer product under 3D-irradiation conditions. , 2009, , .		5
49	Estimating the performance of product integrated photovoltaic (PIPV) cells under indoor conditions for the support of design processes. , 2014, , .		5
50	A Comparative Performance Analysis of a 1 MW CIS PV System and a 5 kW Crystalline-Si PV System under the Tropical Climate of Indonesia. International Journal of Technology, 2019, 10, 1082.	0.4	5
51	PV-powered boats: Evaluation of design parameters. , 2011, , .		4
52	An end-user perspective on smart home energy systems in the PowerMatching City demonstration project. , 2013, , .		4
53	Evaluation of spectrally distributed irradiance in the Netherlands regarding the energy performance of various PV technologies. , 2015, , .		4
54	Self-consumption of electricity produced with photovoltaic systems in apartment buildings - Update of the situation in various IEA PVPS countries. , 2020, , .		4

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55	Product-integrated PV applications - How industrial design methods yield innovative PV powered products. Conference Record of the IEEE Photovoltaic Specialists Conference, 2008, , .	0.0	3
56	Designing PV powered LED products - sensing new opportunities for advanced technologies. , 2009, , .		3
57	Environmental benefits of PV powered lighting products for rural areas in south east Asia: A life cycle analysis with geographic allocation. , 2010, , .		3
58	Development of grid-connected PV systems for remote electrification in Indonesia. , 2011, , .		3
59	Scenario-based simulation of PV boats in an early design stage. , 2013, , .		3
60	A design-driven approach for developing new products for smart grid households. , 2014, , .		3
61	Introducing â€”PEARL-PVâ€”™: Performance and Reliability of Photovoltaic Systems: Evaluations of Large-Scale Monitoring Data. , 2018, , .		3
62	Plug-and-play liquid PV thermal panels - integrated design for easy manufacturing and installation. , 2009, , .		2
63	Conceptual product development with integrated concentrating PV systems â€” CPV in the built environment from a designer's perspective. , 2013, , .		2
64	Preferred attributes of home energy management products for smart grids - results of a design study and related user survey. Journal of Design Research, 2018, 16, 99.	0.1	2
65	Simulation-Supported Testing of Smart Energy Product Prototypes. Applied Sciences (Switzerland), 2019, 9, 2030.	1.3	2
66	Development of a big data bank for PV monitoring data, analysis and simulation in COST Action â€”PEARL PVâ€”™. , 2019, , .		2
67	Diffusion of Solar Energy Use in the Built Environment Supported by New Design. Journal of Civil Engineering and Architecture, 2014, 8, .	0.0	2
68	Users' interaction with PV-powered products: An evaluation of 6 products by 100 end-users. , 2015, , .		1
69	Integration of flexible photovoltaic modules on top of inflatable tents. , 2016, , .		1
70	Co-evolution of smart energy products and services: A novel approach towards smart grids. , 2016, , .		1
71	Leaf roof â€” designing luminescent solar concentrating PV roof tiles. , 2017, , .		1
72	Designing with Luminescent Solar Concentrator Photovoltaics. , 2019, , .		1

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73	Photovoltaic Technologies in the Context of Design. , 2020, , 61-78.		1
74	A Short History of Photovoltaic-Powered Products. , 2020, , 27-60.		1
75	Real-time irradiance simulation for PV products and building integrated PV in a virtual dynamic environment. , 2011, , .		0
76	Case F: Light Urban Mobility. , 2012, , 307-316.		0
77	Smart energy households' pilot projects in The Netherlands with a design-driven approach. , 2013, , .		0
78	PV Systems in Smart Energy Homes. , 2017, , 601-611.		0
79	Special Issue on Advanced Applications for Smart Energy Systems Considering Grid-Interactive Demand Response. Applied Sciences (Switzerland), 2019, 9, 4088.	1.3	0
80	Product-Integrated Photovoltaics. , 2021, , .		0
81	On the Performance of Nine-Year-Old Solar Home Systems and Street Lighting Systems in Sukatani Village in Indonesia. , 2000, , 212-216.		0
82	A design-driven exploration of photovoltaic applications in electric mobility systems. , 2020, , .		0
83	Public survey regarding the user acceptance of photovoltaic (PV) systems in Suriname. , 2020, , .		0