AngÃ¨le H M E Reinders

List of Publications by Year
in descending order

83	1,631	361045	315357
papers	citations	20 h-index	38 g-index

101	101	101	1681
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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
2	Measured power conversion efficiencies of bifacial luminescent solar concentrator photovoltaic devices of the mosaic series. Progress in Photovoltaics: Research and Applications, 2022, 30, 726-739.	4.4	13
3	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. Progress in Photovoltaics: Research and Applications, 2022, 30, 1365-1392.	4.4	26
4	Performance Analysis and Degradation of a Large Fleet of PV Systems. IEEE Journal of Photovoltaics, 2021, 11, 1312-1318.	1.5	18
5	Product-Integrated Photovoltaics. , 2021, , .		0
6	Designing innovative solutions for solarâ€powered electric mobility applications. Progress in Photovoltaics: Research and Applications, 2021, 29, 802-818.	4.4	19
7	A feasibility study of solar PVâ€powered electric cars using an interdisciplinary modeling approach for the electricity balance, CO₂ emissions, and economic aspects: The cases of The Netherlands, Norway, Brazil, and Australia. Progress in Photovoltaics: Research and Applications, 2020, 28, 517-532.	4.4	36
8	Environmental Impacts of Integrated Photovoltaic Modules in Light Utility Electric Vehicles. Energies, 2020, 13, 5120.	1.6	29
9	Simulation of Bifacial and Monofacial Silicon Solar Cell Short-Circuit Current Density Under Measured Spectro-Angular Solar Irradiance. IEEE Journal of Photovoltaics, 2020, 10, 1803-1815.	1.5	18
10	Training and Testing of a Single-Layer LSTM Network for Near-Future Solar Forecasting. Applied Sciences (Switzerland), 2020, 10, 5873.	1.3	19
11	Autonomous Monitoring of Line-to-Line Faults in Photovoltaic Systems by Feature Selection and Parameter Optimization of Support Vector Machine Using Genetic Algorithms. Applied Sciences (Switzerland), 2020, 10, 5527.	1.3	22
12	Operational Performance and Degradation of PV Systems Consisting of Six Technologies in Three Climates. Applied Sciences (Switzerland), 2020, 10, 5412.	1.3	10
13	Technical, Financial, and Environmental Feasibility Analysis of Photovoltaic EV Charging Stations With Energy Storage in China and the United States. IEEE Journal of Photovoltaics, 2020, 10, 1892-1899.	1.5	22
14	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
15	Simulation of a Novel Configuration for Luminescent Solar Concentrator Photovoltaic Devices Using Bifacial Silicon Solar Cells. Applied Sciences (Switzerland), 2020, 10, 871.	1.3	17
16	Photovoltaic Technologies in the Context of Design. , 2020, , 61-78.		1
17	A design-driven exploration of photovoltaic applications in electric mobility systems. , 2020, , .		0
18	Public survey regarding the user acceptance of photovoltaic (PV) systems in Suriname. , 2020, , .		0

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19	Self-consumption of electricity produced with photovoltaic systems in apartment buildings - Update of the situation in various IEA PVPS countries. , 2020, , .		4
20	A Short History of Photovoltaic-Powered Products. , 2020, , 27-60.		1
21	A Comparison of Householdsâ€™ Energy Balance in Residential Smart Grid Pilots in the Netherlands. Applied Sciences (Switzerland), 2019, 9, 2993.	1.3	12
22	The Role of Photovoltaics (PV) in the Present and Future Situation of Suriname. Energies, 2019, 12, 185.	1.6	6
23	Simulation-Supported Testing of Smart Energy Product Prototypes. Applied Sciences (Switzerland), 2019, 9, 2030.	1.3	2
24	Smart Appliances for Efficient Integration of Solar Energy: A Dutch Case Study of a Residential Smart Grid Pilot. Applied Sciences (Switzerland), 2019, 9, 581.	1.3	12
25	Special Issue on Advanced Applications for Smart Energy Systems Considering Grid-Interactive Demand Response. Applied Sciences (Switzerland), 2019, 9, 4088.	1.3	0
26	Designing with Luminescent Solar Concentrator Photovoltaics. , 2019, , .		1
27	Development of a big data bank for PV monitoring data, analysis and simulation in COST Action â€˜PEARL PVâ€™. , 2019, , .		2
28	Resonance Instability of Photovoltaic E-Bike Charging Stations: Control Parameters Analysis, Modeling and Experiment. Applied Sciences (Switzerland), 2019, 9, 252.	1.3	13
29	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
30	Introducing â€˜PEARL-PVâ€™: Performance and Reliability of Photovoltaic Systems: Evaluations of Large-Scale Monitoring Data. , 2018, , .		3
31	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
32	An Exploration of the Three-Layer Model Including Stakeholders, Markets and Technologies for Assessments of Residential Smart Grids. Applied Sciences (Switzerland), 2018, 8, 2363.	1.3	12
33	Luminescent solar concentrator photovoltaic designs. Japanese Journal of Applied Physics, 2018, 57, 08RD10.	0.8	44
34	Perceived and Reported Reliability of the Electricity Supply at Three Urban Locations in Indonesia. Energies, 2018, 11, 140.	1.6	15
35	An Overview of Existing Experiences with Solar-Powered E-Bikes. Energies, 2018, 11, 2129.	1.6	18
36	PV Systems in Smart Energy Homes. , 2017, , 601-611.		0

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37	Comparison of two residential Smart Grid pilots in the Netherlands and in the USA, focusing on energy performance and user experiences. Applied Energy, 2017, 191, 264-275.	5.1	29
38	Measured Efficiency of a Luminescent Solar Concentrator PV Module Called Leaf Roof. IEEE Journal of Photovoltaics, 2017, 7, 1663-1666.	1.5	27
39	Leaf roof â€" designing luminescent solar concentrating PV roof tiles. , 2017, , .		1
40	Design it with LSCs; an exploration of applications for Luminescent Solar Concentrator PV technologies. , 2017, , .		8
41	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
42	Leaf roof â€" Designing luminescent solar concentrating PV roof tiles. , 2016, , .		10
43	Integration of flexible photovoltaic modules on top of inflatable tents. , 2016, , .		1
44	Co-evolution of smart energy products and services: A novel approach towards smart grids. , 2016, , .		1
45	Assessing the Implementation Potential of PCMs: The Situation for Residential Buildings in the Netherlands. Energy Procedia, 2016, 96, 17-32.	1.8	14
46	Comparison of the indoor performance of 12 commercial <scp>PV</scp> products by a simple model. Energy Science and Engineering, 2016, 4, 69-85.	1.9	60
47	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
48	Users' interaction with PV-powered products: An evaluation of 6 products by 100 end-users. , 2015, , .		1
49	A new design for luminescent solar concentrating PV roof tiles. , 2015, , .		7
50	Evaluation of spectrally distributed irradiance in the Netherlands regarding the energy performance of various PV technologies. , 2015, , .		4
51	An Empirical Model for Rack-Mounted PV Module Temperatures for Southeast Asian Locations Evaluated for Minute Time Scales. IEEE Journal of Photovoltaics, 2015, 5, 774-782.	1.5	17
52	Reviewing the potential and cost-effectiveness of off-grid PV systems in Indonesia on a provincial level. Renewable and Sustainable Energy Reviews, 2015, 52, 757-769.	8.2	43
53	A comparison of performance of flat and bent photovoltaic luminescent solar concentrators. Solar Energy, 2015, 112, 120-127.	2.9	46
54	Estimating the performance of product integrated photovoltaic (PIPV) cells under indoor conditions for the support of design processes. , 2014, , .		5

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55	A design-driven approach for developing new products for smart grid households. , 2014, , .		3
56	Overview of Design Issues in Productâ€Integrated Photovoltaics. Energy Technology, 2014, 2, 229-242.	1.8	38
57	Diffusion of Solar Energy Use in the Built Environment Supported by New Design. Journal of Civil Engineering and Architecture, 2014, 8, .	0.0	2
58	Empowering the end-user in smart grids: Recommendations for the design of products and services. Energy Policy, 2013, 61, 151-161.	4.2	167
59	Scenario-based simulation of PV boats in an early design stage. , 2013, , .		3
60	An end-user perspective on smart home energy systems in the PowerMatching City demonstration project. , 2013, , .		4
61	Smart energy households' pilot projects in The Netherlands with a design-driven approach. , 2013, , .		0
62	Reviewing the potential and cost-effectiveness of grid-connected solar PV in Indonesia on a provincial level. Renewable and Sustainable Energy Reviews, 2013, 27, 315-324.	8.2	39
63	Conceptual product development with integrated concentrating PV systems â€" CPV in the built environment from a designer's perspective. , 2013, , .		2
64	Case F: Light Urban Mobility. , 2012, , 307-316.		0
65	Real-Time Irradiance Simulation for PV Products and Building Integrated PV in a Virtual Reality Environment. IEEE Journal of Photovoltaics, 2012, 2, 352-358.	1.5	11
66	Product-Integrated Photovoltaics. , 2012, , 709-732.		9
67	A comparison of 15 polymers for application in photovoltaic modules in PV-powered boats. Applied Energy, 2012, 92, 286-297.	5.1	59
68	A comparative life cycle analysis of low power PV lighting products for rural areas in South East Asia. Renewable Energy, 2012, 41, 96-104.	4.3	23
69	Real-time irradiance simulation for PV products and building integrated PV in a virtual dynamic environment. , 2011, , .		0
70	Development of grid-connected PV systems for remote electrification in Indonesia. , 2011, , .		3
71	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. Solar Energy, 2011, 85, 1007-1020.	2.9	198
72	PV-powered boats: Evaluation of design parameters. , 2011, , .		4

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73	Evaluation of energy performance indicators and financial aspects of energy saving techniques in residential real estate. Energy and Buildings, 2010, 42, 618-629.	3.1	58
74	Environmental benefits of PV powered lighting products for rural areas in south east Asia: A life cycle analysis with geographic allocation. , 2010, , .		3
75	Performance of the first flight experiment with dedicated space CIGS cells onboard the Delfi-C3 nanosatellite. , 2010, , .		7
76	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
77	Designing PV powered LED products - sensing new opportunities for advanced technologies. , 2009, , .		3
78	Plug-and-play liquid PV thermal panels - integrated design for easy manufacturing and installation. , 2009, , .		2
79	Optimizing a steam-methane reformer for hydrogen production. International Journal of Hydrogen Energy, 2009, 34, 285-292.	3.8	39
80	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
81	The direct and indirect energy requirement of households in the European Union. Energy Policy, 2003, 31, 139-153.	4.2	189
82	On the Performance of Nine-Year-Old Solar Home Systems and Street Lighting Systems in Sukatani Village in Indonesia. , 2000, , 212-216.		0
83	Sukatani revisited: on the performance of nine-year-old solar home systems and street lighting systems in Indonesia. Renewable and Sustainable Energy Reviews, 1999, 3, 1-47.	8.2	39