Karsten von Maydell

List of Publications by Year in descending order

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57	674	13	25
papers	citations	h-index	g-index
61	61	61	1027 citing authors
all docs	docs citations	times ranked	

#	Article	IF	CITATIONS
1	Technical and economic analysis of curative actions in distribution networks utilizing battery energy storage systems. IET Generation, Transmission and Distribution, 2022, 16, 724-736.	2.5	O
2	Multi-unit Japanese auction for device agnostic energy management. International Journal of Electrical Power and Energy Systems, 2022, 136, 107350.	5.5	1
3	Monte-Carlo Evaluation of Residential Energy System Morphologies Applying Device Agnostic Energy Management. IEEE Access, 2022, 10, 7460-7475.	4.2	6
4	Optimal Power Dispatch in Energy Systems Considering Grid Constraints. Energies, 2022, 15, 192.	3.1	2
5	Voltage-Based Load Recognition in Low Voltage Distribution Grids with Deep Learning. Energies, 2022, 15, 104.	3.1	3
6	Application of Open Source Models and Data Sets for Energy System Research: (User) Experiences from Ongoing and Completed Projects., 2022,,.		0
7	Simultaneous optimization of temperature and energy in linear energy system models. , 2022, , .		1
8	Planning, Optimisation and Evaluation of Small Power-to-Gas-to-Power Systems: Case Study of a German Dairy. Sustainability, 2022, 14, 6050.	3.2	2
9	Adaptive Online-Learning Volt-Var Control for Smart Inverters Using Deep Reinforcement Learning. Energies, 2021, 14, 1991.	3.1	14
10	Technology Pathways and Economic Analysis for Transforming High Temperature to Low Temperature District Heating Systems. Energies, 2021, 14, 3218.	3.1	0
11	Integration and Dimensioning of Battery Storage Systems in Commercial Building Applications with Renewable Powerplants and Battery Electric Vehicles. , 2021, , .		O
12	A Forecast-Based Load Management Approach for Commercial Buildings Demonstrated on an Integration of BEV. Energies, 2021, 14, 3576.	3.1	2
13	A non-intrusive load monitoring approach for very short-term power predictions in commercial buildings. Applied Energy, 2021, 292, 116860.	10.1	11
14	Forecast of Renewable Curtailment in Distribution Grids Considering Uncertainties. IEEE Access, 2021, 9, 60828-60840.	4.2	9
15	Deduction of Optimal Control Strategies for a Sector-Coupled District Energy System. Energies, 2021, 14, 7257.	3.1	0
16	Business case analysis of hybrid systems consisting of battery storage and power-to-heat on the German energy market. Utilities Policy, 2020, 67, 101110.	4.0	8
17	Load predictions: vulnerability of microâ€grids based on renewable energies due to increasing population and individual demand. IET Renewable Power Generation, 2020, 14, 1312-1320.	3.1	O
18	Are standard load profiles suitable for modern electricity grid models?. , 2020, , .		2

#	Article	IF	CITATIONS
19	Simulation of Incidental Distributed Generation Curtailment to Maximize the Integration of Renewable Energy Generation in Power Systems. Energies, 2020, 13, 4173.	3.1	11
20	Optimised curtailment of distributed generators for the provision of congestion management services considering discrete controllability. IET Generation, Transmission and Distribution, 2020, 14, 735-744.	2.5	13
21	Sustainable Residential Energy Supply: A Literature Review-Based Morphological Analysis. Energies, 2020, 13, 432.	3.1	6
22	Determination of the Required Power Response of Inverters to Provide Fast Frequency Support in Power Systems with Low Synchronous Inertia. Energies, 2020, 13, 816.	3.1	3
23	A Machine Learning Approach to Low-Cost Photovoltaic Power Prediction Based on Publicly Available Weather Reports. Energies, 2020, 13, 735.	3.1	27
24	Combined PV Power and Load Prediction for Building-Level Energy Management Applications. , 2020, , .		3
25	Interdependence of charging infrastructure and battery demand of light electric 3-wheel motor taxis. , 2020, , .		2
26	Simulation of vertical power flow at MV/HV transformers for quantification of curtailed renewable power. IET Renewable Power Generation, 2019, 13, 3071-3079.	3.1	6
27	Effect of EV Movement Schedule and Machine Learning-Based Load Forecasting on Electricity Cost of a Single Household. Energies, 2018, 11, 2913.	3.1	13
28	Energy forecast for mobile photovoltaic systems with focus on trucks for cooling applications. Progress in Photovoltaics: Research and Applications, 2017, 25, 525-532.	8.1	6
29	Comparison of silicon oxide and silicon carbide absorber materials in silicon thin-film solar cells. EPJ Photovoltaics, 2015, 6, 65302.	1.6	5
30	Effects of process parameters on $1/4c$ - Si1 a^2 XGeX:H solar cells performance and material properties. EPJ Photovoltaics, 2015, 6, 65301.	1.6	1
31	Optimizing Folded Silicon Thin-Film Solar Cells on ZnO Honeycomb Electrodes. IEEE Journal of Photovoltaics, 2015, 5, 479-486.	2.5	8
32	DCâ \in sputtered ZnO:Al as transparent conductive oxide for silicon heterojunction solar cells with µcâ \in Si:H emitter. Progress in Photovoltaics: Research and Applications, 2015, 23, 1340-1352.	8.1	31
33	Laser perforated ultrathin metal films for transparent electrode applications. Optics Express, 2015, 23, A254.	3.4	8
34	Semitransparent Polymer-Based Solar Cells with Aluminum-Doped Zinc Oxide Electrodes. ACS Applied Materials & Samp; Interfaces, 2015, 7, 287-300.	8.0	36
35	Ultrathin Resonantâ€Cavityâ€Enhanced Solar Cells with Amorphous Germanium Absorbers. Advanced Optical Materials, 2015, 3, 182-186.	7.3	42
36	Thin metal layer as transparent electrode in n-i-p amorphous silicon solar cells. EPJ Photovoltaics, 2014, 5, 55205.	1.6	4

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#	Article	IF	Citations
37	Laser textured substrates for light in-coupling in thin-film solar cells. , 2014, , .		O
38	Enhanced passivation at amorphous/crystalline silicon interface and suppressed Schottky barrier by deposition of microcrystalline silicon emitter layer in silicon heterojunction solar cells. Applied Physics Letters, 2014, 104, .	3. 3	34
39	Cost-effective nanostructured thin-film solar cell with enhanced absorption. Applied Physics Letters, 2014, 105, .	3.3	14
40	Amorphous Silicon Oxinitride in Silicon Thin-film Solar Cells. Energy Procedia, 2014, 44, 203-208.	1.8	2
41	ZnO nanorod arrays as light trapping structures in amorphous silicon thin-film solar cells. Solar Energy Materials and Solar Cells, 2014, 125, 305-309.	6.2	38
42	Effect of the Vertical Transportation Component of the TCO Layer on the Electrical Properties of Silicon Heterojunction Solar Cells. IEEE Journal of Photovoltaics, 2014, 4, 859-865.	2.5	2
43	Comparison of Ag and SiO ₂ Nanoparticles for Light Trapping Applications in Silicon Thin Film Solar Cells. Journal of Physical Chemistry Letters, 2014, 5, 3302-3306.	4.6	15
44	AZO-Ag-AZO transparent electrode for amorphous silicon solar cells. Thin Solid Films, 2014, 558, 294-297.	1.8	44
45	ZnO Nanorods with Broadband Antireflective Properties for Improved Light Management in Silicon Thinâ€Film Solar Cells. Advanced Optical Materials, 2014, 2, 94-99.	7.3	39
46	Study of Surface Passivation of CZ c-Si by PECVD a-Si:H Films; A Comparison Between Quasi-Steady-State and Transient Photoconductance Decay Measurement. Materials Research Society Symposia Proceedings, 2013, 1536, 1.	0.1	1
47	Correlation between optical emission spectroscopy of hydrogen/germane plasma and the Raman crystallinity factor of germanium layers. Applied Physics Letters, 2013, 102, 152109.	3.3	8
48	Investigation on Nanorod TCO Light-trapping for a-Si:H Solar Cells in Superstrate Configuration. Materials Research Society Symposia Proceedings, 2012, 1426, 111-116.	0.1	0
49	Optical modeling of thin film silicon solar cells by combination of the transfer-matrix method and the Raytracer algorithm. Proceedings of SPIE, 2012 , , .	0.8	2
50	Computational investigation of silicon thin-film solar cells with grating structures fabricated by holographic lithography. Proceedings of SPIE, 2012 , , .	0.8	0
51	Simulation of single-junction thin-film silicon solar cells with varying intrinsic layer thickness. , 2012, , .		O
52	Highly Transparent AZO/Ag/AZO Multilayer Front Contact for n-i-p Silicon Thin-Film Solar Cells. Materials Research Society Symposia Proceedings, 2012, 1426, 93-98.	0.1	1
53	A simulation study towards a new concept for realization of thin film triple junction solar cells based on group IV elements. Progress in Photovoltaics: Research and Applications, 2012, 20, 74-81.	8.1	12
54	ITO-free inverted polymer solar cells with ZnO:Al cathodes and stable top anodes. Solar Energy Materials and Solar Cells, 2012, 98, 52-56.	6.2	44

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55	Three dimensional optical modeling of amorphous silicon thin film solar cells using the finite-difference time-domain method including real randomly surface topographies. Journal of Applied Physics, 2011, 110, 023102.	2.5	30
56	Numerical 3D-Simulation of Micromorph Silicon Thin Film Solar Cells. Materials Research Society Symposia Proceedings, 2011, 1321, 273.	0.1	3
57	Photoâ€induced Charge Transfer and Relaxation of Persistent Charge Carriers in Polymer/Nanocrystal Composites for Applications in Hybrid Solar Cells. Advanced Functional Materials, 2009, 19, 3788-3795.	14.9	96