

Wilfried Gjhm Van Sark

List of Publications by Citations

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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.

245
papers

7,707
citations

45
h-index

81
g-index

280
ext. papers

9,093
ext. citations

5.9
avg, IF

6.65
L-index

#	Paper	IF	Citations
245	Luminescent Solar Concentrators--a review of recent results. <i>Optics Express</i> , 2008 , 16, 21773-92	3.3	364
244	Photooxidation and Photobleaching of Single CdSe/ZnS Quantum Dots Probed by Room-Temperature Time-Resolved Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2001 , 105, 8281-8284	3.4	340
243	Upconverter solar cells: materials and applications. <i>Energy and Environmental Science</i> , 2011 , 4, 4835	35.4	309
242	Blueing, Bleaching, and Blinking of Single CdSe/ZnS Quantum Dots. <i>ChemPhysChem</i> , 2002 , 3, 871-879	3.2	236
241	Feasibility of photovoltaic Thermoelectric hybrid modules. <i>Applied Energy</i> , 2011 , 88, 2785-2790	10.7	223
240	Enhanced near-infrared response of a-Si:H solar cells with NaYF ₄ :Yb ³⁺ (18%), Er ³⁺ (2%) upconversion phosphors. <i>Solar Energy Materials and Solar Cells</i> , 2010 , 94, 2395-2398	6.4	218
239	Smart charging of electric vehicles with photovoltaic power and vehicle-to-grid technology in a microgrid; a case study. <i>Applied Energy</i> , 2015 , 152, 20-30	10.7	188
238	Fluorescence lifetime imaging in scanning microscopes: acquisition speed, photon economy and lifetime resolution. <i>Journal of Microscopy</i> , 2002 , 206, 218-24	1.9	178
237	Monitoring and remote failure detection of grid-connected PV systems based on satellite observations. <i>Solar Energy</i> , 2007 , 81, 548-564	6.8	166
236	Upconversion in solar cells. <i>Nanoscale Research Letters</i> , 2013 , 8, 81	5	164
235	A cost roadmap for silicon heterojunction solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2016 , 147, 295-314	6.4	155
234	Performance ratio revisited: is PR > 90% realistic?. <i>Progress in Photovoltaics: Research and Applications</i> , 2012 , 20, 717-726	6.8	155
233	Enhancing solar cell efficiency by using spectral converters. <i>Solar Energy Materials and Solar Cells</i> , 2005 , 87, 395-409	6.4	153
232	Fabrication and full characterization of state-of-the-art quantum dot luminescent solar concentrators. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, 2087-2094	6.4	142
231	Crystalline silicon cell performance at low light intensities. <i>Solar Energy Materials and Solar Cells</i> , 2009 , 93, 1471-1481	6.4	131
230	Re-assessment of net energy production and greenhouse gas emissions avoidance after 40 years of photovoltaics development. <i>Nature Communications</i> , 2016 , 7, 13728	17.4	125
229	A self-consistent fluid model for radio-frequency discharges in SiH ₄ /H ₂ compared to experiments. <i>Journal of Applied Physics</i> , 1997 , 82, 2060-2071	2.5	117

228	Techno-economic analysis of household and community energy storage for residential prosumers with smart appliances. <i>Applied Energy</i> , 2018 , 209, 266-276	10.7	117
227	Tackling self-absorption in luminescent solar concentrators with type-II colloidal quantum dots. <i>Solar Energy Materials and Solar Cells</i> , 2013 , 111, 57-65	6.4	116
226	Towards upconversion for amorphous silicon solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2010 , 94, 1919-1922	6.4	108
225	Unraveling the photovoltaic technology learning curve by incorporation of input price changes and scale effects. <i>Renewable and Sustainable Energy Reviews</i> , 2011 , 15, 324-337	16.2	101
224	Technical potential for photovoltaics on buildings in the EU-27. <i>Solar Energy</i> , 2012 , 86, 2644-2653	6.8	93
223	An integrated blockchain-based energy management platform with bilateral trading for microgrid communities. <i>Applied Energy</i> , 2020 , 263, 114613	10.7	86
222	An artificial neural network to assess the impact of neighbouring photovoltaic systems in power forecasting in Utrecht, the Netherlands. <i>Renewable Energy</i> , 2016 , 85, 631-641	8.1	84
221	Luminescent solar concentrators [A low cost photovoltaics alternative. <i>Renewable Energy</i> , 2013 , 49, 207-210	8.1	83
220	Multi-objective optimization of energy arbitrage in community energy storage systems using different battery technologies. <i>Applied Energy</i> , 2019 , 239, 356-372	10.7	83
219	Nanoparticles for Luminescent Solar Concentrators - A review. <i>Optical Materials</i> , 2018 , 84, 636-645	3.3	79
218	Renewable energy technologies in the Maldives [Determining the potential. <i>Renewable and Sustainable Energy Reviews</i> , 2007 , 11, 1650-1674	16.2	67
217	Luminescence quenching in erbium-doped hydrogenated amorphous silicon. <i>Applied Physics Letters</i> , 1996 , 68, 997-999	3.4	67
216	Analysis of the silicon market: Will thin films profit?. <i>Energy Policy</i> , 2007 , 35, 3121-3125	7.2	64
215	The energy payback time of advanced crystalline silicon PV modules in 2020: a prospective study. <i>Progress in Photovoltaics: Research and Applications</i> , 2014 , 22, 1180-1194	6.8	62
214	Charge yield potential of indoor-operated solar cells incorporated into Product Integrated Photovoltaic (PIPV). <i>Renewable Energy</i> , 2011 , 36, 642-647	8.1	61
213	A new hybrid ocean thermal energy conversion [Offshore solar pond (OTEC) [OSP) design: A cost optimization approach. <i>Solar Energy</i> , 2008 , 82, 520-527	6.8	60
212	Photovoltaic systems coupled with batteries that are optimally sized for household self-consumption: Assessment of peak shaving potential. <i>Applied Energy</i> , 2018 , 223, 69-81	10.7	59
211	Fabrication and spectroscopic studies on highly luminescent CdSe/CdS nanorod polymer composites. <i>Beilstein Journal of Nanotechnology</i> , 2010 , 1, 94-100	3	55

210	Gamification-based framework for engagement of residential customers in energy applications. <i>Energy Research and Social Science</i> , 2018 , 44, 187-195	7.7	55
209	A comparative review of building integrated photovoltaics ecosystems in selected European countries. <i>Renewable and Sustainable Energy Reviews</i> , 2018 , 90, 1027-1040	16.2	54
208	Excellent crystalline silicon surface passivation by amorphous silicon irrespective of the technique used for chemical vapor deposition. <i>Applied Physics Letters</i> , 2011 , 98, 153514	3.4	54
207	Enhancement of solar cell performance by employing planar spectral converters. <i>Applied Physics Letters</i> , 2005 , 87, 151117	3.4	54
206	Unravelling historical cost developments of offshore wind energy in Europe. <i>Energy Policy</i> , 2016 , 88, 435-444	7.2	53
205	Impact of rapid PV fluctuations on power quality in the low-voltage grid and mitigation strategies using electric vehicles. <i>International Journal of Electrical Power and Energy Systems</i> , 2020 , 118, 105741	5.1	49
204	Annual performance enhancement of building integrated photovoltaic modules by applying phase change materials. <i>Progress in Photovoltaics: Research and Applications</i> , 2013 , 21, 620-630	6.8	47
203	On the transmission function of an ion-energy and mass spectrometer. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1998 , 173, 91-98		47
202	Modeling improvement of spectral response of solar cells by deployment of spectral converters containing semiconductor nanocrystals. <i>Semiconductors</i> , 2004 , 38, 962-969	0.7	47
201	Accuracy of progress ratios determined from experience curves: the case of crystalline silicon photovoltaic module technology development. <i>Progress in Photovoltaics: Research and Applications</i> , 2008 , 16, 441-453	6.8	46
200	Photovoltaics in the shade: one bypass diode per solar cell revisited. <i>Progress in Photovoltaics: Research and Applications</i> , 2017 , 25, 836-849	6.8	45
199	Short-term peer-to-peer solar forecasting in a network of photovoltaic systems. <i>Applied Energy</i> , 2017 , 206, 1464-1483	10.7	45
198	Should we reinforce the grid? Cost and emission optimization of electric vehicle charging under different transformer limits. <i>Applied Energy</i> , 2020 , 276, 115285	10.7	45
197	Structural properties of a-Si:H related to ion energy distributions in VHF silane deposition plasmas. <i>Journal of Non-Crystalline Solids</i> , 1998 , 226, 205-216	3.9	44
196	A new method for the evaluation of solar cell parameters. <i>Solar Cells</i> , 1986 , 17, 241-251		44
195	Compensation of self-absorption losses in luminescent solar concentrators by increasing luminophore concentration. <i>Solar Energy Materials and Solar Cells</i> , 2017 , 167, 133-139	6.4	42
194	Comprehensive characterisation and analysis of PV module performance under real operating conditions. <i>Progress in Photovoltaics: Research and Applications</i> , 2017 , 25, 218-232	6.8	42
193	Economic benefits of combining self-consumption enhancement with frequency restoration reserves provision by photovoltaic-battery systems. <i>Applied Energy</i> , 2018 , 223, 172-187	10.7	41

192	Local structure and bonding states in a-Si _{1-x} C _x H. <i>Journal of Applied Physics</i> , 1994 , 76, 251-256	2.5	41
191	Life-cycle greenhouse gas emissions and energy payback time of current and prospective silicon heterojunction solar cell designs. <i>Progress in Photovoltaics: Research and Applications</i> , 2015 , 23, 1406-1428	6.8	40
190	Renewable energy technologies in the Maldives: Realizing the potential. <i>Renewable and Sustainable Energy Reviews</i> , 2008 , 12, 162-180	16.2	40
189	Simulating performance of solar cells with spectral downshifting layers. <i>Thin Solid Films</i> , 2008 , 516, 6808-6812	26.12	40
188	Optimal energy management in all-electric residential energy systems with heat and electricity storage. <i>Applied Energy</i> , 2019 , 254, 113580	10.7	38
187	Tropicalisation of Feed-in Tariffs: A custom-made support scheme for hybrid PV/diesel systems in isolated regions. <i>Renewable and Sustainable Energy Reviews</i> , 2009 , 13, 2279-2294	16.2	38
186	Life cycle assessment of carbon dioxide removal technologies: a critical review. <i>Energy and Environmental Science</i> , 2021 , 14, 1701-1721	35.4	38
185	Introducing errors in progress ratios determined from experience curves. <i>Technological Forecasting and Social Change</i> , 2008 , 75, 405-415	9.5	37
184	Technological Learning in the Energy Sector 2010 ,		37
183	Lowering greenhouse gas emissions in the built environment by combining ground source heat pumps, photovoltaics and battery storage. <i>Energy and Buildings</i> , 2018 , 180, 51-71	7	37
182	Status and Outlook for Building Integrated Photovoltaics (BIPV) in Relation to Educational needs in the BIPV Sector. <i>Energy Procedia</i> , 2017 , 111, 993-999	2.3	35
181	Provision of regulating- and reserve power by electric vehicle owners in the Dutch market. <i>Applied Energy</i> , 2017 , 190, 1008-1019	10.7	35
180	A systematic analysis of meteorological variables for PV output power estimation. <i>Renewable Energy</i> , 2020 , 153, 12-22	8.1	35
179	FULLSPECTRUM: a new PV wave making more efficient use of the solar spectrum. <i>Solar Energy Materials and Solar Cells</i> , 2005 , 87, 467-479	6.4	34
178	Luminescent solar concentrators with fiber geometry. <i>Optics Express</i> , 2013 , 21 Suppl 3, A503-14	3.3	33
177	Assessment of forecasting methods on performance of photovoltaic-battery systems. <i>Applied Energy</i> , 2018 , 221, 358-373	10.7	32
176	Influence of demand patterns on the optimal orientation of photovoltaic systems. <i>Solar Energy</i> , 2017 , 155, 1002-1014	6.8	32
175	Increased Upconversion Response in a-Si:H Solar Cells With Broad-Band Light. <i>IEEE Journal of Photovoltaics</i> , 2013 , 3, 17-21	3.7	32

174	Greenhouse gas emissions associated with photovoltaic electricity from crystalline silicon modules under various energy supply options. <i>Progress in Photovoltaics: Research and Applications</i> , 2011 , 19, 603-613	6.8	32
173	A comprehensive study on partial shading response of c-Si modules and yield modeling of string inverter and module level power electronics. <i>Solar Energy</i> , 2016 , 135, 731-741	6.8	32
172	Luminescence quenching in erbium-doped hydrogenated amorphous silicon. <i>Applied Physics Letters</i> , 1996 , 68, 46-48	3.4	30
171	Simulation of performance differences between offshore and land-based photovoltaic systems. <i>Progress in Photovoltaics: Research and Applications</i> , 2020 , 28, 873-886	6.8	28
170	High quality crystalline silicon surface passivation by combined intrinsic and n-type hydrogenated amorphous silicon. <i>Applied Physics Letters</i> , 2011 , 99, 203503	3.4	28
169	Structural, compositional and optical properties of hydrogenated amorphous silicon-carbon alloys. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1992 , 66, 787-800		28
168	Deposition-rate reduction through improper substrate-to-electrode attachment in very-high-frequency deposition of a-Si:H. <i>Journal of Applied Physics</i> , 1996 , 80, 3546-3551	2.5	27
167	The Electric Mondrian as a Luminescent Solar Concentrator Demonstrator Case Study. <i>Solar Rrl</i> , 2017 , 1, 1600015	7.1	26
166	Diffusion of solar photovoltaic systems and electric vehicles among Dutch consumers: Implications for the energy transition. <i>Energy Research and Social Science</i> , 2018 , 46, 68-85	7.7	26
165	On the search for representative characteristics of PV systems: Data collection and analysis of PV system azimuth, tilt, capacity, yield and shading. <i>Solar Energy</i> , 2018 , 173, 1087-1106	6.8	25
164	Spatial power fluctuation correlations in urban rooftop photovoltaic systems. <i>Progress in Photovoltaics: Research and Applications</i> , 2015 , 23, 1390-1397	6.8	24
163	Potential for solar water heating in Zimbabwe. <i>Renewable and Sustainable Energy Reviews</i> , 2009 , 13, 567-582	16.2	24
162	Comparison of surface passivation of crystalline silicon by a-Si:H with and without atomic hydrogen treatment using hot-wire chemical vapor deposition. <i>Thin Solid Films</i> , 2011 , 519, 4476-4478	2.2	24
161	Review of barriers to the introduction of residential demand response: a case study in the Netherlands. <i>International Journal of Energy Research</i> , 2017 , 41, 790-816	4.5	23
160	Flexibility of Electric Vehicle Demand: Analysis of Measured Charging Data and Simulation for the Future. <i>World Electric Vehicle Journal</i> , 2019 , 10, 14	2.5	23
159	Improving the performance of amorphous and crystalline silicon heterojunction solar cells by monitoring surface passivation. <i>Journal of Non-Crystalline Solids</i> , 2012 , 358, 2245-2248	3.9	22
158	A system perspective to the deployment of flexibility through aggregator companies in the Netherlands. <i>Energy Policy</i> , 2018 , 118, 534-551	7.2	22
157	Comparison of the Greenhouse Gas Emission Reduction Potential of Energy Communities. <i>Energies</i> , 2019 , 12, 4440	3.1	21

156	A framework for the provision of flexibility services at the transmission and distribution levels through aggregator companies. <i>Sustainable Energy, Grids and Networks</i> , 2019 , 17, 100187	3.6	21
155	Reconsidering the capacity credit of wind power: Application of cumulative prospect theory. <i>Renewable Energy</i> , 2014 , 68, 752-760	8.1	19
154	Using CAD software to simulate PV energy yield □The case of product integrated photovoltaic operated under indoor solar irradiation. <i>Solar Energy</i> , 2010 , 84, 1526-1537	6.8	19
153	Experimental determination of demand side management potential of wet appliances in the Netherlands. <i>Sustainable Energy, Grids and Networks</i> , 2017 , 9, 80-94	3.6	18
152	On the Trade-Off Between Environmental and Economic Objectives in Community Energy Storage Operational Optimization. <i>IEEE Transactions on Sustainable Energy</i> , 2020 , 11, 2653-2661	8.2	18
151	A solar powered wireless computer mouse: Industrial design concepts. <i>Solar Energy</i> , 2009 , 83, 202-210	6.8	18
150	Nanoclustering of hydrogen in ion-implanted and plasma-grown amorphous silicon. <i>Physical Review B</i> , 1998 , 58, 12853-12864	3.3	18
149	Urban Environment and Solar PV Performance: The Case of the Netherlands. <i>Energies</i> , 2018 , 11, 1333	3.1	17
148	Outdoor characterization and comparison of string and MLPE under clear and partially shaded conditions. <i>Energy Science and Engineering</i> , 2015 , 3, 510-519	3.4	17
147	Time-Resolved Fluorescence Spectroscopy Study on the Photophysical Behavior of Quantum Dots. <i>Journal of Fluorescence</i> , 2002 , 12, 69-76	2.4	17
146	High Sensitivity Spectrograph for Use in Fluorescence Microscopy. <i>Applied Spectroscopy</i> , 2001 , 55, 1005-1012	3.1	17
145	. <i>IEEE Transactions on Plasma Science</i> , 1995 , 23, 644-649	1.3	17
144	Analytical models for growth by metal organic vapour phase epitaxy: I. Isothermal models. <i>Semiconductor Science and Technology</i> , 1990 , 5, 16-35	1.8	17
143	Temperature-dependent aluminum incorporation in Al _x Ga _{1-x} As layers grown by metalorganic vapor phase epitaxy. <i>Journal of Applied Physics</i> , 1988 , 64, 195-199	2.5	17
142	Towards the determination of metal criticality in home-based battery systems using a Life Cycle Assessment approach. <i>Journal of Cleaner Production</i> , 2019 , 221, 667-677	10.3	16
141	Do we really need rotor equivalent wind speed?. <i>Wind Energy</i> , 2019 , 22, 745-763	3.4	15
140	Solar water heating potential in South Africa in dynamic energy market conditions. <i>Renewable and Sustainable Energy Reviews</i> , 2012 , 16, 3002-3013	16.2	15
139	Response to simulated typical daily outdoor irradiation conditions of thin-film silicon-based triple-band-gap, triple-junction solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2009 , 93, 691-697	6.4	15

138	Agent-Based Modelling of Charging Behaviour of Electric Vehicle Drivers. <i>Jasss</i> , 2019 , 22,	4.8	15
137	Assessment of policy based residential solar PV potential using GIS-based multicriteria decision analysis: A case study of Apeldoorn, The Netherlands. <i>Energy Procedia</i> , 2017 , 134, 110-120	2.3	14
136	Long-term optical stability of fluorescent solar concentrator plates. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2014 , 211, 1150-1154	1.6	14
135	Consensus statement: Standardized reporting of power-producing luminescent solar concentrator performance. <i>Joule</i> , 2022 , 6, 8-15	27.8	14
134	Life Cycle Assessment of Direct Air Carbon Capture and Storage with Low-Carbon Energy Sources. <i>Environmental Science & Technology</i> , 2021 ,	10.3	14
133	Price development of photovoltaic modules, inverters, and systems in the Netherlands in 2012. <i>Renewable Energy</i> , 2014 , 71, 18-22	8.1	12
132	Solar eclipse: The rise and 'dusk' of the Dutch PV innovation system. <i>International Journal of Technology, Policy and Management</i> , 2012 , 12, 135	0.3	12
131	A spatio-temporal city-scale assessment of residential photovoltaic power integration scenarios. <i>Solar Energy</i> , 2018 , 174, 1185-1197	6.8	12
130	Review of Energy in the Built Environment. <i>Smart Cities</i> , 2020 , 3, 248-288	3.3	11
129	Economic evaluation of offshore wind power in the liberalized Dutch power market. <i>Wind Energy</i> , 2009 , 12, 507-523	3.4	11
128	Pooling the cable: A techno-economic feasibility study of integrating offshore floating photovoltaic solar technology within an offshore wind park. <i>Solar Energy</i> , 2021 , 219, 65-74	6.8	11
127	Solar Irradiance Forecasting Using Triple Exponential Smoothing 2018 ,		11
126	Methods of Deposition of Hydrogenated Amorphous Silicon for Device Applications. <i>Thin Films and Nanostructures</i> , 2002 , 30, 1-215		10
125	Provision of Ancillary Services from an Aggregated Portfolio of Residential Heat Pumps on the Dutch Frequency Containment Reserve Market. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 590	2.6	9
124	Analysis of high frequency photovoltaic solar energy fluctuations. <i>Solar Energy</i> , 2020 , 206, 381-389	6.8	9
123	Visualization of Operational Performance of Grid-Connected PV Systems in Selected European Countries. <i>Energies</i> , 2018 , 11, 1330	3.1	9
122	Geospatial analysis of the energy yield and environmental footprint of different photovoltaic module technologies. <i>Solar Energy</i> , 2017 , 155, 1339-1353	6.8	9
121	Renewable energy fueled desalination in Israel. <i>Desalination and Water Treatment</i> , 2010 , 13, 450-463		9

120	Fast Imaging of Single Molecules and Nanoparticles by Wide-Field Microscopy and Spectrally Resolved Confocal Microscopy. <i>Single Molecules</i> , 2000 , 1, 291-298		9
119	International collaboration framework for the calculation of performance loss rates: Data quality, benchmarks, and trends (towards a uniform methodology). <i>Progress in Photovoltaics: Research and Applications</i> , 2021 , 29, 573-602	6.8	9
118	Inverse photovoltaic yield model for global horizontal irradiance reconstruction. <i>Energy Science and Engineering</i> , 2017 , 5, 226-239	3.4	8
117	Smart charging of community storage units using Markov chains 2017 ,		8
116	Product-Integrated Photovoltaics 2012 , 709-732		8
115	Ion Bombardment in Silane VHF Deposition Plasmas. <i>Materials Research Society Symposia Proceedings</i> , 1997 , 467, 603		8
114	Structural defects and hydrogen clustering in amorphous silicon. <i>Journal of Non-Crystalline Solids</i> , 1998 , 227-230, 128-132	3.9	8
113	Teaching the relation between solar cell efficiency and annual energy yield. <i>European Journal of Physics</i> , 2007 , 28, 415-427	0.8	8
112	VHF aSi:H solar cells: A systematic material and cell study. <i>Journal of Materials Research</i> , 1998 , 13, 45-52.5		8
111	Role of ions in PECVD of amorphous silicon. <i>Surface and Coatings Technology</i> , 1995 , 74-75, 63-66	4.4	8
110	Laser alloying of Cu and Cr. <i>Journal of Materials Research</i> , 1986 , 1, 652-660	2.5	8
109	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	2.6	8
108	Visual Appearance of Nanocrystal-Based Luminescent Solar Concentrators. <i>Materials</i> , 2019 , 12,	3.5	7
107	Improvement of Shade Resilience in Photovoltaic Modules Using Buck Converters in a Smart Module Architecture. <i>Energies</i> , 2018 , 11, 250	3.1	7
106	PV System Performance Evaluation by Clustering Production Data to Normal and Non-Normal Operation. <i>Energies</i> , 2018 , 11, 977	3.1	7
105	Three years experience in a Dutch public awareness campaign on photovoltaic system performance. <i>IET Renewable Power Generation</i> , 2017 , 11, 1229-1233	2.9	7
104	2012 ,		7
103	Sheath thickness in very-high-frequency plasma chemical vapor deposition of hydrogenated amorphous silicon. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1997 , 15, 654-658	2.9	7

102	Analytical models for growth by metal organic vapour phase epitaxy: II. Influence of temperature gradient. <i>Semiconductor Science and Technology</i> , 1990 , 5, 36-44	1.8	7
101	Operational day-ahead solar power forecasting for aggregated PV systems with a varying spatial distribution. <i>Renewable Energy</i> , 2022 , 183, 267-282	8.1	7
100	Introduction [Physics and Technology of Amorphous-Crystalline Heterostructure Silicon Solar Cells. <i>Engineering Materials</i> , 2012 , 1-12	0.4	7
99	Multiple roads ahead: How charging behavior can guide charging infrastructure roll-out policy. <i>Transportation Research, Part D: Transport and Environment</i> , 2020 , 85, 102452	6.4	7
98	Benchmark analysis of day-ahead solar power forecasting techniques using weather predictions 2019 ,		7
97	Structural order in thin a-Si:H films. <i>Journal of Applied Physics</i> , 1995 , 78, 1964-1967	2.5	6
96	Frequency effects in capacitively coupled radio-frequency glow discharges: A comparison between experiments and a two-dimensional fluid model. <i>Applied Physics Letters</i> , 1994 , 64, 1780-1782	3.4	6
95	Bond-Angle Variation and Microstructure in Hydrogenated Amorphous Silicon. <i>Materials Research Society Symposia Proceedings</i> , 1992 , 258, 275		6
94	Analytical models for the growth by metal organic vapour phase epitaxy: III. Applications. <i>Semiconductor Science and Technology</i> , 1990 , 5, 291-298	1.8	6
93	On the Use of Average versus Marginal Emission Factors 2019 ,		6
92	Calibration and Validation of ArcGIS Solar Radiation Tool for Photovoltaic Potential Determination in the Netherlands. <i>Energies</i> , 2021 , 14, 1865	3.1	6
91	A Time-Series Data Analysis Methodology for Effective Monitoring of Partially Shaded Photovoltaic Systems. <i>Energies</i> , 2019 , 12, 1722	3.1	5
90	A Blockchain-Based Configuration for Balancing the Electricity Grid with Distributed Assets. <i>World Electric Vehicle Journal</i> , 2020 , 11, 62	2.5	5
89	A Comparison of Households' Energy Balance in Residential Smart Grid Pilots in the Netherlands. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 2993	2.6	5
88	Operational performance of grid-connected PV systems 2014 ,		5
87	2014 ,		5
86	Luminescent Solar Concentrators [a low cost photovoltaics alternative. <i>EPJ Web of Conferences</i> , 2012 , 33, 02003	0.3	5
85	Ion Energy Distributions in Silane-Hydrogen Plasmas. <i>Materials Research Society Symposia Proceedings</i> , 1996 , 420, 461		5

84	The pulse reactor: A high-efficiency, high-precision low-pressure MOCVD machine. <i>Journal of Crystal Growth</i> , 1988 , 93, 201-206	1.6	5
83	Empirical Evaluation of V2G Round-trip Efficiency 2020 ,		5
82	Should Anisotropic Emission or Reabsorption of Nanoparticle Luminophores Be Optimized for Increasing Luminescent Solar Concentrator Efficiency?. <i>Solar Rrl</i> , 2020 , 4, 2000279	7.1	5
81	On the influence of electricity demand patterns, battery storage and PV system design on PV self-consumption and grid interaction 2016 ,		5
80	Evaluation of different indicators for representing solar spectral variation 2016 ,		5
79	A Review of the Dutch Ecosystem for Building Integrated Photovoltaics. <i>Energy Procedia</i> , 2017 , 111, 974-981	2.81	4
78	Luminescent Solar Concentrators: The route to 10% efficiency 2014 ,		4
77	Exploration of parameters influencing the self-absorption losses in luminescent solar concentrators with an experimentally validated combined ray-tracing/Monte-Carlo model 2013 ,		4
76	Nanoparticles for solar spectrum conversion 2010 ,		4
75	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 ,		4
74	Inhomogeneities in PECVD deposited a-Si:H films induced by a spacing between substrate and substrate holder. <i>Solar Energy Materials and Solar Cells</i> , 1997 , 45, 57-63	6.4	4
73	A new method for estimating insolation based on PV-module currents in a cluster of stand-alone solar systems. <i>Progress in Photovoltaics: Research and Applications</i> , 2007 , 15, 387-404	6.8	4
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