

Lawrence L Kazmerski

List of Publications by Year in descending order

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37
papers

3,024
citations

516710

16
h-index

501196

28
g-index

38
all docs

38
docs citations

38
times ranked

3218
citing authors

#	ARTICLE	IF	CITATIONS
1	Energy consumption and water production cost of conventional and renewable-energy-powered desalination processes. <i>Renewable and Sustainable Energy Reviews</i> , 2013, 24, 343-356.	16.4	842
2	A comprehensive review of the impact of dust on the use of solar energy: History, investigations, results, literature, and mitigation approaches. <i>Renewable and Sustainable Energy Reviews</i> , 2013, 22, 698-733.	16.4	702
3	Solar photovoltaics R&D at the tipping point: A 2005 technology overview. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2006, 150, 105-135.	1.7	247
4	Dust and soiling issues and impacts relating to solar energy systems: Literature review update for 2012-2015. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 63, 33-61.	16.4	207
5	Photovoltaics: A review of cell and module technologies. <i>Renewable and Sustainable Energy Reviews</i> , 1997, 1, 71-170.	16.4	156
6	Solar energy dust and soiling R&D progress: Literature review update for 2016. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 82, 2504-2536.	16.4	133
7	Solar and wind opportunities for water desalination in the Arab regions. <i>Renewable and Sustainable Energy Reviews</i> , 2009, 13, 2397-2407.	16.4	122
8	Technical and economic assessment of photovoltaic-driven desalination systems. <i>Renewable Energy</i> , 2010, 35, 323-328.	8.9	109
9	Electroplated CuInS ₂ and CuInSe ₂ layers: Preparation and physical and photovoltaic characterization. <i>Thin Solid Films</i> , 1985, 128, 93-106.	1.8	91
10	Fundamental Studies of Adhesion of Dust to PV Module Surfaces: Chemical and Physical Relationships at the Microscale. <i>IEEE Journal of Photovoltaics</i> , 2016, 6, 719-729.	2.5	69
11	Formation and Composition-Dependent Properties of Alloys of Cubic Halide Perovskites. <i>Chemistry of Materials</i> , 2019, 31, 2497-2506.	6.7	48
12	The effects of grain boundary and interface recombination on the performance of thin-film solar cells. <i>Solid-State Electronics</i> , 1978, 21, 1545-1550.	1.4	47
13	An overview of the use of solar chimneys for desalination. <i>Solar Energy</i> , 2019, 183, 83-95.	6.1	47
14	Historical Analysis of Champion Photovoltaic Module Efficiencies. <i>IEEE Journal of Photovoltaics</i> , 2018, 8, 363-372.	2.5	37
15	Preparation and characterization of vacuum deposited CuInSe ₂ thin films. <i>Solar Cells</i> , 1986, 16, 369-380.	0.6	30
16	Electrodeposited layers of CuInS ₂ , CuIn ₅ S ₈ and CuInSe ₂ . <i>Progress in Crystal Growth and Characterization</i> , 1984, 10, 345-351.	0.8	16
17	Analysis and characterization of thin films: A tutorial. <i>Solar Cells</i> , 1988, 24, 387-418.	0.6	16
18	Photovoltaics characterization: A survey of diagnostic measurements. <i>Journal of Materials Research</i> , 1998, 13, 2684-2708.	2.6	15

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19	Materials design and discovery: Potential for application to soiling mitigation in photovoltaic systems. Solar Energy, 2019, 183, 791-804.	6.1	15
20	Composition and structure of CuInSe ₂ thin films prepared by vacuum evaporation of the constituent elements. Solar Cells, 1984, 13, 59-65.	0.6	12
21	Atomic-level imaging, processing and characterization of defects and surfaces using proximal probe techniques. Vacuum, 1992, 43, 1011-1017.	3.5	12
22	Estimate of Soiling Rates Based on Soiling Monitoring Station and PV System Data: Case Study for Equatorial-Climate Brazil. IEEE Journal of Photovoltaics, 2021, 11, 461-468.	2.5	12
23	Atomic Imaging, Atomic Processing and Nanocharacterization of CuInSe ₂ Using Proximal Probe Techniques. Japanese Journal of Applied Physics, 1993, 32, 25.	1.5	9
24	Soiling particle interactions on PV modules: Surface and inter-particle adhesion and chemistry effects. , 2016, , .		8
25	Impact of soiling on Si and CdTe PV modules: Case study in different Brazil climate zones. Energy Conversion and Management: X, 2021, 10, 100084.	1.6	5
26	Micro- to nano-characterization of semiconductor grain boundaries. Surface Science Reports, 1993, 19, 169-189.	7.2	4
27	Roof-mounted photovoltaic generator temperature modeling based on common Brazil roofing materials. Renewable Energy and Environmental Sustainability, 2022, 7, 5.	1.4	3
28	Study of Snail Trail Effects on Performance of Crystalline Silicon Photovoltaic Modules. , 2021, , .		2
29	PV Module Technology Comparisons: Comprehensive Study Differentiating Soiling Spectral Effects, Operating Temperature, and Climate Conditions. , 2020, , .		2
30	Cleaning efficacy of anti-soiling coatings. , 2020, , .		2
31	Worrying about Climate Change. Atmospheric and Climate Sciences, 2022, 12, 441-461.	0.3	2
32	Arrays to atoms: The range, evolution, and frontiers of characterization. Renewable Energy, 1994, 5, 107-117.	8.9	1
33	Scaling Sustainable Integrated PV Manufacturing Globally. , 2021, , .		1
34	Photovoltaics characterization: Beyond the horizon. , 1997, , .		0
35	Solar photovoltaics technology: The revolution begins…. , 2009, , .		0
36	Solar Photovoltaics: Living a Technology From Research Curiosity to Reality. , 2021, , .		0

#	ARTICLE	IF	CITATIONS
37	Impact of Soiling Deposition on CdTe and Si PV Modules in Different Climate Zones in Brazil. , 2020, , .		0