

Richard P Corkish

List of Publications by Year in descending order

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50
papers

2,139
citations

393982

19
h-index

315357

38
g-index

54
all docs

54
docs citations

54
times ranked

2576
citing authors

#	ARTICLE	IF	CITATIONS
1	Silicon nanostructures for third generation photovoltaic solar cells. <i>Thin Solid Films</i> , 2006, 511-512, 654-662.	0.8	542
2	Temperature dependence of the radiative recombination coefficient of intrinsic crystalline silicon. <i>Journal of Applied Physics</i> , 2003, 94, 4930.	1.1	257
3	Very efficient light emission from bulk crystalline silicon. <i>Applied Physics Letters</i> , 2003, 82, 2996-2998.	1.5	151
4	Solar energy collection by antennas. <i>Solar Energy</i> , 2002, 73, 395-401.	2.9	141
5	Point-of-use water disinfection using ultraviolet and visible light-emitting diodes. <i>Science of the Total Environment</i> , 2016, 553, 626-635.	3.9	93
6	Major challenges and opportunities in silicon solar module recycling. <i>Progress in Photovoltaics: Research and Applications</i> , 2020, 28, 1077-1088.	4.4	82
7	Comparative Life Cycle Assessment of End-of-Life Silicon Solar Photovoltaic Modules. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 1396.	1.3	76
8	A life cycle assessment of perovskite/silicon tandem solar cells. <i>Progress in Photovoltaics: Research and Applications</i> , 2017, 25, 679-695.	4.4	74
9	Photovoltaic powered ultraviolet and visible light-emitting diodes for sustainable point-of-use disinfection of drinking waters. <i>Science of the Total Environment</i> , 2014, 493, 185-196.	3.9	71
10	The impurity photovoltaic (IPV) effect in wide-bandgap semiconductors: an opportunity for very-high-efficiency solar cells?. <i>Progress in Photovoltaics: Research and Applications</i> , 2002, 10, 345-353.	4.4	62
11	Limiting efficiency for a multi-band solar cell containing three and four bands. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2002, 14, 121-125.	1.3	60
12	Detailed balance efficiency limits with quasi-Fermi level variations [QW solar cell]. <i>IEEE Transactions on Electron Devices</i> , 1999, 46, 1932-1939.	1.6	56
13	A Review of Recycling Processes for Photovoltaic Modules. , 0, , .		50
14	Comprehensive recycling of silicon photovoltaic modules incorporating organic solvent delamination – technical, environmental and economic analyses. <i>Resources, Conservation and Recycling</i> , 2021, 165, 105241.	5.3	50
15	Clear quantum-confined luminescence from crystalline silicon/SiO ₂ single quantum wells. <i>Applied Physics Letters</i> , 2004, 84, 2286-2288.	1.5	47
16	Excitons in silicon diodes and solar cells: A three-particle theory. <i>Journal of Applied Physics</i> , 1996, 79, 195-203.	1.1	41
17	Quantitative interpretation of electron-beam-induced current grain boundary contrast profiles with application to silicon. <i>Journal of Applied Physics</i> , 1998, 84, 5473-5481.	1.1	27
18	Life cycle assessment on PERC solar modules. <i>Solar Energy Materials and Solar Cells</i> , 2018, 187, 154-159.	3.0	27

#	ARTICLE	IF	CITATIONS
19	A comparative life cycle assessment of chalcogenide/Si tandem solar modules. <i>Energy</i> , 2018, 145, 700-709.	4.5	26
20	Economic viability of building integrated photovoltaics: A review of forty-five (45) non-domestic buildings in twelve (12) western countries. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 137, 110622.	8.2	23
21	Junction recombination current in abrupt junction diodes under forward bias. <i>Journal of Applied Physics</i> , 1996, 80, 3083-3090.	1.1	19
22	Design trade-offs and rules for multiple energy level solar cells. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2002, 14, 136-141.	1.3	18
23	Band edge optical absorption in intrinsic silicon: Assessment of the indirect transition and disorder models. <i>Journal of Applied Physics</i> , 1993, 73, 3988-3996.	1.1	16
24	Sustainable End of Life Management of Crystalline Silicon and Thin Film Solar Photovoltaic Waste: The Impact of Transportation. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 5465.	1.3	16
25	Photoluminescence in crystalline silicon quantum wells. <i>Journal of Applied Physics</i> , 2007, 101, 024321.	1.1	15
26	Atomistic structure of SiO ₂ •Si•SiO ₂ quantum wells with an apparently crystalline silicon oxide. <i>Journal of Applied Physics</i> , 2004, 96, 3211-3216.	1.1	14
27	A survey of the effects of reflector surface distortions on sidelobe levels. <i>IEEE Antennas and Propagation Magazine</i> , 1990, 32, 6-11.	1.2	13
28	Thin semiconducting layers and nanostructures as active and passive emitters for thermophotonics and thermophotovoltaics. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2002, 14, 91-95.	1.3	10
29	Some candidate materials for lattice-matched liquid-phase epitaxial growth on silicon. <i>Solar Cells</i> , 1991, 31, 537-548.	0.6	9
30	Life Cycle Assessment of tandem LSC-Si devices. <i>Energy</i> , 2019, 181, 1-10.	4.5	9
31	Integrated Solar Photovoltaics for Buildings. <i>Journal of Green Building</i> , 2006, 1, 63-76.	0.4	9
32	An Environmental and Societal Analysis of the US Electrical Energy Industry Based on the Water-Energy Nexus. <i>Energies</i> , 2021, 14, 2633.	1.6	7
33	Numerical simulation of electron-beam-induced current near a silicon grain boundary and impact of a p-n junction space charge region. <i>Solar Energy Materials and Solar Cells</i> , 2001, 65, 63-69.	3.0	5
34	Thin semiconducting layers as active and passive emitters for thermophotonics and thermophotovoltaics. <i>Solar Energy</i> , 2004, 76, 251-254.	2.9	5
35	The use of conical tips to improve the impedance matching of cassegrain subreflectors. <i>Microwave and Optical Technology Letters</i> , 1990, 3, 310-313.	0.9	4
36	Life Cycle Environmental Assessment of Different Solar Photovoltaic Technologies. , 2021, , 5-1-5-34.		3

#	ARTICLE	IF	CITATIONS
37	Life Cycle Assessment of Silicon-Based Tandem Solar Photovoltaics and their End-of-Life. Indonesian Journal of Life Cycle Assessment and Sustainability, 0, , .	0.0	2
38	The effect of electron range on electron beam induced current collection and a simple method to extract an electron range for any generation function. Ultramicroscopy, 2011, 111, 1343-1351.	0.8	1
39	An overview of the Australian Centre for Advanced Photovoltaics and the Australia-US Institute for Advanced Photovoltaics. Materials Research Society Symposia Proceedings, 2015, 1771, 33-44.	0.1	1
40	Life Cycle Assessment on Hydrogenation Processes on Silicon Solar Modules. , 2018, , .		1
41	Recombination via discrete defect levels with application to semiconductor material characterisation. , 0, , .		0
42	Optical transitions from SiO/sub 2//crystalline Si/SiO/sub 2/ quantum wells. , 0, , .		0
43	Evidence for crystalline silicon oxide growth on thin silicon. , 0, , .		0
44	Materials Engineering Education in Two New Engineering Degree Programs at the Centre for Photovoltaic Engineering. Materials Research Society Symposia Proceedings, 2005, 909, 1.	0.1	0
45	New education opportunities and research activities at UNSW. Proceedings of SPIE, 2007, , .	0.8	0
46	β-NaYF<inf>4</inf>:Er³+</sup> nanocrystal films as a spectral converter to improve photoconversion efficiency of crystalline silicon solar cells. , 2013, , .		0
47	The genesis of the first specialist PV Bachelor of Engineering program—The educational legacy of Stuart Ross Wenham. Progress in Photovoltaics: Research and Applications, 2019, , .	4.4	0
48	Undergraduate and Postgraduate Education in Renewable Energy. , 2017, , 81-92.		0
49	Life Cycle Assessment of Two Experimental Recycling Processes for c-Si Solar Modules. , 2019, , .		0
50	Undergraduate and Postgraduate Education in Renewable Energy. Advances in Higher Education and Professional Development Book Series, 0, , 85-95.	0.1	0