

Luis G Gerling

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

1,289
citations

586496

16
h-index

843174

20
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21
all docs

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docs citations

21
times ranked

1863
citing authors

#	ARTICLE	IF	CITATIONS
1	Photocurrent-Detected 2D Electronic Spectroscopy Reveals Ultrafast Hole Transfer in Operating PM6/Y6 Organic Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 3983-3988.	2.1	26
2	Light Harvesting at Oblique Incidence Decoupled from Transmission in Organic Solar Cells Exhibiting 9.8% Efficiency and 50% Visible Light Transparency. <i>Advanced Energy Materials</i> , 2020, 10, 1904196.	10.2	46
3	Improved Electron Selectivity in Silicon Solar Cells by Cathode Modification with a Dipolar Conjugated Polyelectrolyte Interlayer. <i>ACS Applied Energy Materials</i> , 2019, 2, 5954-5959.	2.5	8
4	Germanium photovoltaic cells with MoOx hole-selective contacts. <i>Solar Energy</i> , 2019, 181, 357-360.	2.9	14
5	Interdigitated back-contacted crystalline silicon solar cells with low-temperature dopant-free selective contacts. <i>Journal of Materials Chemistry A</i> , 2018, 6, 3977-3985.	5.2	48
6	Transport mechanisms in silicon heterojunction solar cells with molybdenum oxide as a hole transport layer. <i>Solar Energy Materials and Solar Cells</i> , 2018, 185, 61-65.	3.0	41
7	V ₂ O _x -based hole-selective contacts for c-Si interdigitated back-contacted solar cells. <i>Journal of Materials Chemistry A</i> , 2017, 5, 9182-9189.	5.2	94
8	Superior performance of V2O5 as hole selective contact over other transition metal oxides in silicon heterojunction solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2017, 168, 221-226.	3.0	124
9	Origin of passivation in hole-selective transition metal oxides for crystalline silicon heterojunction solar cells. <i>Journal of Materials Research</i> , 2017, 32, 260-268.	1.2	129
10	Passivating/hole-selective contacts based on V2O5/SiOx stacks deposited at ambient temperature. <i>Energy Procedia</i> , 2017, 124, 584-592.	1.8	33
11	Analysis of temperature dependent current-voltage and capacitance-voltage characteristics of an Au/V2O5/n-Si Schottky diode. <i>AIP Advances</i> , 2017, 7, .	0.6	63
12	A prototype reactor for highly selective solar-driven CO ₂ reduction to synthesis gas using nanosized earth-abundant catalysts and silicon photovoltaics. <i>Energy and Environmental Science</i> , 2017, 10, 2256-2266.	15.6	116
13	High efficiency ITO-free hybrid solar cell using highly conductive PEDOT:PSS with co-solvent and surfactant treatments. <i>Materials Letters</i> , 2017, 186, 165-167.	1.3	13
14	Intermittent chaos for ergodic light trapping in a photonic fiber plate. <i>Light: Science and Applications</i> , 2016, 5, e16216-e16216.	7.7	17
15	Back Junction n-type Silicon Heterojunction Solar Cells with V2O5 Hole-selective Contact. <i>Energy Procedia</i> , 2016, 92, 633-637.	1.8	25
16	Main properties of Al ₂ O ₃ thin films deposited by magnetron sputtering of an Al ₂ O ₃ ceramic target at different radio-frequency power and argon pressure and their passivation effect on p-type c-Si wafers. <i>Thin Solid Films</i> , 2016, 619, 288-296.	0.8	33
17	PEDOT:PSS as an Alternative Hole Selective Contact for ITO-Free Hybrid Crystalline Silicon Solar Cell. <i>IEEE Journal of Photovoltaics</i> , 2016, 6, 934-939.	1.5	25
18	Transition metal oxides as hole-selective contacts in silicon heterojunctions solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2016, 145, 109-115.	3.0	328

#	ARTICLE	IF	CITATIONS
19	Characterization of Transition Metal Oxide/Silicon Heterojunctions for Solar Cell Applications. Applied Sciences (Switzerland), 2015, 5, 695-705.	1.3	92
20	Straightforward determination of the effective mobility-lifetime product of small molecule organic solar cells. , 2015, , .		0
21	Influence of the density of states on the open-circuit voltage in small-molecule solar cells. Organic Electronics, 2014, 15, 2553-2560.	1.4	14