

Luis G Gerling

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

1,289
citations

516710

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752698

20
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21
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docs citations

21
times ranked

1608
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. | 4.6 | 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. | 19.5 | 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. | 5.1 | 8 |
| 4 | Germanium photovoltaic cells with MoOx hole-selective contacts. <i>Solar Energy</i> , 2019, 181, 357-360. | 6.1 | 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. | 10.3 | 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. | 6.2 | 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. | 10.3 | 94 |
| 8 | Superior performance of V ₂ O ₅ 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. | 6.2 | 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. | 2.6 | 129 |
| 10 | Passivating/hole-selective contacts based on V ₂ O ₅ /SiO _x 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/V ₂ O ₅ /n-Si Schottky diode. <i>AIP Advances</i> , 2017, 7, . | 1.3 | 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. | 30.8 | 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. | 2.6 | 13 |
| 14 | Intermittent chaos for ergodic light trapping in a photonic fiber plate. <i>Light: Science and Applications</i> , 2016, 5, e16216-e16216. | 16.6 | 17 |
| 15 | Back Junction n-type Silicon Heterojunction Solar Cells with V ₂ O ₅ 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. | 1.8 | 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. | 2.5 | 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. | 6.2 | 328 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Characterization of Transition Metal Oxide/Silicon Heterojunctions for Solar Cell Applications. Applied Sciences (Switzerland), 2015, 5, 695-705. | 2.5 | 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. | 2.6 | 14 |