

Nathan Chang

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

1,197
citations

567281

15
h-index

752698

20
g-index

24
all docs

24
docs citations

24
times ranked

1336
citing authors

#	ARTICLE	IF	CITATIONS
1	Techno-economic analysis of the use of atomic layer deposited transition metal oxides in silicon heterojunction solar cells. <i>Progress in Photovoltaics: Research and Applications</i> , 2023, 31, 414-428.	8.1	11
2	Future cost projections for photovoltaic module manufacturing using a bottom-up cost and uncertainty model. <i>Solar Energy Materials and Solar Cells</i> , 2022, 237, 111529.	6.2	1
3	Economic assessment of local solar module assembly in a global market. <i>Cell Reports Physical Science</i> , 2022, 3, 100747.	5.6	11
4	Techno-economic and environmental sustainability of industrial-scale productions of perovskite solar cells. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 158, 112146.	16.4	23
5	Estimating the Lifetime of Solar Photovoltaic Modules in Australia. <i>Sustainability</i> , 2022, 14, 5336.	3.2	14
6	Perovskite solar cells for building integrated photovoltaics—glazing applications. <i>Joule</i> , 2022, 6, 1446-1474.	24.0	39
7	Remanufacturing end-of-life silicon photovoltaics: Feasibility and viability analysis. <i>Progress in Photovoltaics: Research and Applications</i> , 2021, 29, 760-774.	8.1	22
8	Comprehensive recycling of silicon photovoltaic modules incorporating organic solvent delamination—technical, environmental and economic analyses. <i>Resources, Conservation and Recycling</i> , 2021, 165, 105241.	10.8	50
9	A bottom-up cost analysis of silicon-perovskite tandem photovoltaics. <i>Progress in Photovoltaics: Research and Applications</i> , 2021, 29, 401-413.	8.1	35
10	Peer behaviour boosts recycling. <i>Nature Energy</i> , 2021, 6, 862-863.	39.5	3
11	Analysis of manufacturing cost and market niches for $\text{Cu}_2\text{ZnSnS}_4$ (CZTS) solar cells. <i>Sustainable Energy and Fuels</i> , 2021, 5, 1044-1058.	4.9	26
12	The Technical and Economic Viability of Replacing n-type with p-type Wafers for Silicon Heterojunction Solar Cells. <i>Cell Reports Physical Science</i> , 2020, 1, 100069.	5.6	25
13	Techno-economic Analysis of Hydrogen Electrolysis from Off-Grid Stand-Alone Photovoltaics Incorporating Uncertainty Analysis. <i>Cell Reports Physical Science</i> , 2020, 1, 100209.	5.6	113
14	Assessing the Competitiveness of Metallization Cell Schemes with a Future-Cost Uncertainty Model. , 2020, , .		0
15	A techno-economic review of silicon photovoltaic module recycling. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 109, 532-550.	16.4	245
16	A techno-economic analysis method for guiding research and investment directions for c-Si photovoltaics and its application to Al-BSF, PERC, LDSE and advanced hydrogenation. <i>Sustainable Energy and Fuels</i> , 2018, 2, 1007-1019.	4.9	19
17	When every cent counts. <i>Nature Energy</i> , 2018, 3, 361-362.	39.5	0
18	Manufacturing cost and market potential analysis of demonstrated roll-to-roll perovskite photovoltaic cell processes. <i>Solar Energy Materials and Solar Cells</i> , 2018, 174, 314-324.	6.2	113

#	ARTICLE	IF	CITATIONS
19	Techno-economic analysis of silicon heterojunction cell sequences using hydrogenated p-type wafers. , 2018, , .		1
20	Life Cycle Assessment on Hydrogenation Processes on Silicon Solar Modules. , 2018, , .		1
21	Scaling limits to large area perovskite solar cell efficiency. Progress in Photovoltaics: Research and Applications, 2018, 26, 659-674.	8.1	31
22	Life cycle assessment on PERC solar modules. Solar Energy Materials and Solar Cells, 2018, 187, 154-159.	6.2	27
23	A manufacturing cost estimation method with uncertainty analysis and its application to perovskite on glass photovoltaic modules. Progress in Photovoltaics: Research and Applications, 2017, 25, 390-405.	8.1	171
24	Crystalline silicon on glass (CSG) thin-film solar cell modules. Solar Energy, 2004, 77, 857-863.	6.1	216