

Nathan Chang

List of Publications by Year in descending order

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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	A techno-economic review of silicon photovoltaic module recycling. Renewable and Sustainable Energy Reviews, 2019, 109, 532-550.	16.4	245
2	Crystalline silicon on glass (CSG) thin-film solar cell modules. Solar Energy, 2004, 77, 857-863.	6.1	216
3	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
4	Manufacturing cost and market potential analysis of demonstrated roll-to-roll perovskite photovoltaic cell processes. Solar Energy Materials and Solar Cells, 2018, 174, 314-324.	6.2	113
5	Techno-economic Analysis of Hydrogen Electrolysis from Off-Grid Stand-Alone Photovoltaics Incorporating Uncertainty Analysis. Cell Reports Physical Science, 2020, 1, 100209.	5.6	113
6	Comprehensive recycling of silicon photovoltaic modules incorporating organic solvent delamination – technical, environmental and economic analyses. Resources, Conservation and Recycling, 2021, 165, 105241.	10.8	50
7	Perovskite solar cells for building integrated photovoltaics – glazing applications. Joule, 2022, 6, 1446-1474.	24.0	39
8	A bottom-up cost analysis of silicon-perovskite tandem photovoltaics. Progress in Photovoltaics: Research and Applications, 2021, 29, 401-413.	8.1	35
9	Scaling limits to large area perovskite solar cell efficiency. Progress in Photovoltaics: Research and Applications, 2018, 26, 659-674.	8.1	31
10	Life cycle assessment on PERC solar modules. Solar Energy Materials and Solar Cells, 2018, 187, 154-159.	6.2	27
11	Analysis of manufacturing cost and market niches for $\text{Cu}_{2}\text{ZnSnS}_{4}$ (CZTS) solar cells. Sustainable Energy and Fuels, 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. Cell Reports Physical Science, 2020, 1, 100069.	5.6	25
13	Techno-economic and environmental sustainability of industrial-scale productions of perovskite solar cells. Renewable and Sustainable Energy Reviews, 2022, 158, 112146.	16.4	23
14	Remanufacturing end-of-life silicon photovoltaics: Feasibility and viability analysis. Progress in Photovoltaics: Research and Applications, 2021, 29, 760-774.	8.1	22
15	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. Sustainable Energy and Fuels, 2018, 2, 1007-1019.	4.9	19
16	Estimating the Lifetime of Solar Photovoltaic Modules in Australia. Sustainability, 2022, 14, 5336.	3.2	14
17	Economic assessment of local solar module assembly in a global market. Cell Reports Physical Science, 2022, 3, 100747.	5.6	11
18	Techno-economic analysis of the use of atomic layer deposited transition metal oxides in silicon heterojunction solar cells. Progress in Photovoltaics: Research and Applications, 2023, 31, 414-428.	8.1	11

#	ARTICLE	IF	CITATIONS
19	Peer behaviour boosts recycling. Nature Energy, 2021, 6, 862-863.	39.5	3
20	Techno-economic analysis of silicon heterojunction cell sequences using hydrogenated p-type wafers. , 2018, , .		1
21	Life Cycle Assessment on Hydrogenation Processes on Silicon Solar Modules. , 2018, , .		1
22	Future cost projections for photovoltaic module manufacturing using a bottom-up cost and uncertainty model. Solar Energy Materials and Solar Cells, 2022, 237, 111529.	6.2	1
23	When every cent counts. Nature Energy, 2018, 3, 361-362.	39.5	0
24	Assessing the Competitiveness of Metallization Cell Schemes with a Future-Cost Uncertainty Model. , 2020, , .		0