

Arny Leroy

List of Publications by Year in descending order

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Version: 2024-02-01

16
papers

960
citations

1040056

9
h-index

996975

15
g-index

16
all docs

16
docs citations

16
times ranked

853
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermal transport in solar-reflecting and infrared-transparent polyethylene aerogels. International Journal of Heat and Mass Transfer, 2022, 184, 122307.	4.8	5
2	Highly efficient and salt rejecting solar evaporation via a wick-free confined water layer. Nature Communications, 2022, 13, 849.	12.8	101
3	Design and modeling of a multiscale porous ceramic heat exchanger for high temperature applications with ultrahigh power density. International Journal of Heat and Mass Transfer, 2022, 194, 122996.	4.8	4
4	Dual-Stage Atmospheric Water Harvesting Device for Scalable Solar-Driven Water Production. Joule, 2021, 5, 166-182.	24.0	173
5	Solar-Driven Soft Robots. Advanced Science, 2021, 8, 2004235.	11.2	17
6	Zinc sulfide-pigmented polyethylene aerogel covers for daytime radiative cooling. Journal of Photonics for Energy, 2021, 11, .	1.3	6
7	A Passive High-Temperature High-Pressure Solar Steam Generator for Medical Sterilization. Joule, 2020, 4, 2733-2745.	24.0	76
8	Polymer Infused Porous Surfaces for Robust, Thermally Conductive, Self-Healing Coatings for Dropwise Condensation. ACS Nano, 2020, 14, 14878-14886.	14.6	46
9	Theoretical and experimental investigation of haze in transparent aerogels. Optics Express, 2019, 27, A39.	3.4	27
10	High-performance subambient radiative cooling enabled by optically selective and thermally insulating polyethylene aerogel. Science Advances, 2019, 5, eaat9480.	10.3	281
11	Plasmonic absorption-induced haze suppression in random scattering media. Applied Physics Letters, 2019, 114, .	3.3	2
12	Passive directional sub-ambient daytime radiative cooling. Nature Communications, 2018, 9, 5001.	12.8	179
13	Specular side reflectors for high efficiency thermal-to-optical energy conversion. Optics Express, 2018, 26, A462.	3.4	8
14	Combined selective emitter and filter for high performance incandescent lighting. Applied Physics Letters, 2017, 111, .	3.3	7
15	High performance incandescent light bulb using a selective emitter and nanophotonic filters. , 2017, , .		2
16	Development of a novel spiral coil ground heat exchanger model considering axial effects. Applied Thermal Engineering, 2015, 84, 409-419.	6.0	26