

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