Hadi Ghasemi

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/2660059/publications.pdf

Version: 2024-02-01

72 papers	5,667 citations	136740 32 h-index	118652 62 g-index
77 all docs	77 docs citations	77 times ranked	6044 citing authors

#	Article	IF	Citations
1	Solar steam generation by heat localization. Nature Communications, 2014, 5, 4449.	5.8	1,623
2	Volumetric solar heating of nanofluids for direct vapor generation. Nano Energy, 2015, 17, 290-301.	8.2	350
3	An electrochemical system for efficiently harvesting low-grade heat energy. Nature Communications, 2014, 5, 3942.	5.8	324
4	Plasmonic materials for energy: From physics to applications. Materials Today, 2013, 16, 375-386.	8.3	304
5	Magnetic slippery extreme icephobic surfaces. Nature Communications, 2016, 7, 13395.	5.8	223
6	A flexible anti-clogging graphite film for scalable solar desalination by heat localization. Journal of Materials Chemistry A, 2017, 5, 15227-15234.	5.2	213
7	Charging-free electrochemical system for harvesting low-grade thermal energy. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 17011-17016.	3.3	206
8	Nanostructured polymer films with metal-like thermal conductivity. Nature Communications, 2019, 10, 1771.	5.8	197
9	Membrane-Free Battery for Harvesting Low-Grade Thermal Energy. Nano Letters, 2014, 14, 6578-6583.	4.5	149
10	Flexible artificially-networked structure for ambient/high pressure solar steam generation. Journal of Materials Chemistry A, 2016, 4, 4700-4705.	5.2	138
11	Stress-localized durable icephobic surfaces. Materials Horizons, 2019, 6, 758-766.	6.4	128
12	Making g-C3N4 ultra-thin nanosheets active for photocatalytic overall water splitting. Applied Catalysis B: Environmental, 2021, 282, 119557.	10.8	121
13	Icephobic surfaces: Definition and figures of merit. Advances in Colloid and Interface Science, 2019, 269, 203-218.	7.0	115
14	Hybrid solarâ€“geothermal power generation: Optimal retrofitting. Applied Energy, 2014, 131, 158-170.	5.1	100
15	Modeling and optimization of a binary geothermal power plant. Energy, 2013, 50, 412-428.	4.5	86
16	Energy Transport by Thermocapillary Convection during Sessile-Water-Droplet Evaporation. Physical Review Letters, 2010, 105, 136102.	2.9	85
17	Thermo-economic analysis of a hybrid solar-binary geothermal powerÂplant. Energy, 2015, 87, 326-335.	4.5	81
18	Solar heat localization: concept and emerging applications. Journal of Materials Chemistry A, 2020, 8, 7035-7065.	5.2	79

#	Article	IF	Citations
19	Full Spectrum Solar Thermal Energy Harvesting and Storage by a Molecular and Phase-Change Hybrid Material. Joule, 2019, 3, 3100-3111.	11.7	75
20	Preparation of uniform TiO2 nanostructure film on 316L stainless steel by solâ€“gel dip coating. Applied Surface Science, 2009, 255, 8328-8333.	3.1	70
21	Aerogel-based solar thermal receivers. Nano Energy, 2017, 40, 180-186.	8.2	67
22	The potential of hydrogen hydrate as a future hydrogen storage medium. IScience, 2021, 24, 101907.	1.9	58
23	Transport Phenomena in Nano/Molecular Confinements. ACS Nano, 2020, 14, 16348-16391.	7.3	55
24	Rational Micro/Nanostructuring for Thin-Film Evaporation. Journal of Physical Chemistry C, 2016, 120, 8742-8750.	1.5	54
25	Antiscaling Magnetic Slippery Surfaces. ACS Applied Materials & Interfaces, 2017, 9, 21025-21033.	4.0	47
26	Decoupled Hierarchical Structures for Suppression of Leidenfrost Phenomenon. Langmuir, 2017, 33, 2541-2550.	1.6	45
27	Remote Droplet Manipulation on Selfâ€Healing Thermally Activated Magnetic Slippery Surfaces. Advanced Materials Interfaces, 2017, 4, 1700009.	1.9	43
28	Mechanism of Sessile Water Droplet Evaporation: Kapitza Resistance at the Solidâ€“Liquid Interface. Journal of Physical Chemistry C, 2011, 115, 21311-21319.	1.5	41
29	Evaporation Mass Flux: A Predictive Model and Experiments. Langmuir, 2018, 34, 11676-11684.	1.6	39
30	Ultrahigh Evaporative Heat Fluxes in Nanoconfined Geometries. Langmuir, 2019, 35, 78-85.	1.6	39
31	Sessile-Water-Droplet Contact Angle Dependence on Adsorption at the Solidâ”Liquid Interface. Journal of Physical Chemistry C, 2010, 114, 5088-5100.	1.5	38
32	Flexible GaAs solar cells on roll-to-roll processed epitaxial Ge films on metal foils: a route towards low-cost and high-performance IIIâ€“V photovoltaics. Energy and Environmental Science, 2019, 12, 756-766.	15.6	35
33	Hydrophilic polymer-based anti-biofouling coatings: Preparation, mechanism, and durability. Advances in Colloid and Interface Science, 2020, 284, 102264.	7.0	34
34	Tissue stiffness contributes to YAP activation in bladder cancer patients undergoing transurethral resection. Annals of the New York Academy of Sciences, 2020, 1473, 48-61.	1.8	31
35	Scalable inter-diffused zwitterionic polyurethanes for durable antibacterial coatings. Chemical Engineering Journal, 2021, 422, 130085.	6.6	30
36	Surfaces for high heat dissipation with no Leidenfrost limit. Applied Physics Letters, 2017, 111, .	1.5	26

#	Article	IF	Citations
37	Networked Zwitterionic Durable Antibacterial Surfaces. ACS Applied Bio Materials, 2020, 3, 911-919.	2.3	25
38	Freezing of few nanometers water droplets. Nature Communications, 2021, 12, 6973.	5.8	24
39	Temperature Discontinuity at an Evaporating Water Interface. Journal of Physical Chemistry C, 2020, 124, 1554-1559.	1.5	23
40	Surface Tension of Solids in the Absence of Adsorption. Journal of Physical Chemistry B, 2009, 113, 12632-12634.	1.2	22
41	Continuous fabrication platform for highly aligned polymer films. Technology, 2014, 02, 189-199.	1.4	21
42	Advanced functional surfaces through controlled damage and instabilities. Materials Horizons, 2020, 7, 366-396.	6.4	20
43	Polymorphisms of DNA repair genes XRCC1 and LIG4 and idiopathic male infertility. Systems Biology in Reproductive Medicine, 2017, 63, 382-390.	1.0	19
44	Ultrathin bismuth oxyiodide nanosheets for photocatalytic ammonia generation from nitrogen and water under visible to near-infrared light. Materials Today Physics, 2021, 16, 100293.	2.9	18
45	Capture and conversion of carbon dioxide by solar heat localization. Sustainable Energy and Fuels, 2019, 3, 272-279.	2.5	13
46	Overexpression of reactive oxygen species modulator 1 is associated with advanced grades of bladder cancer. Molecular Biology Reports, 2020, 47, 6497-6505.	1.0	13
47	On interfacial viscosity in nanochannels. Nanoscale, 2020, 12, 14626-14635.	2.8	12
48	Evaporation in nano/molecular materials. Advances in Colloid and Interface Science, 2021, 290, 102385.	7.0	12
49	High thermal conductivity ultra-high molecular weight polyethylene (UHMWPE) films. , 2014, , .		11
50	Dispensing nano-pico droplets of ferrofluids. Applied Physics Letters, 2015, 107, .	1.5	11
51	Stress-localized durable anti-biofouling surfaces. Soft Matter, 2019, 15, 6014-6026.	1.2	11
52	Predictive AI platform on thin film evaporation in hierarchical structures. International Journal of Heat and Mass Transfer, 2021, 171, 121116.	2.5	7
53	Determinants of Iranian dentistsâ€™ behaviour regarding infection control. International Dental Journal, 2011, 61, 85-89.	1.0	6
54	Photocathodic protection of 316L stainless steel by coating of anatase nanoparticles. Protection of Metals and Physical Chemistry of Surfaces, 2013, 49, 109-112.	0.3	6

#	Article	IF	Citations
55	Chlorella vulgaris supplementation attenuates the progression of liver fibrosis through targeting TGF-Î²-signaling pathway in the CCl₄-induced liver fibrosis in rats. Toxin Reviews, 2021, 40, 1347-1355.	1.5	6
56	Roles of preoxidation, Cu2O particles, and interface pores on the strength of eutectically bonded Cu/Î±-Al2O3. Materials & Design, 2009, 30, 1098-1102.	5.1	5
57	Surface Tension Nanogates for Controlled Ion Transport. ACS Applied Nano Materials, 2020, 3, 6979-6986.	2.4	5
58	Optimization of binary geothermal power systems. Computer Aided Chemical Engineering, 2013, , 391-396.	0.3	4
59	Non-isothermal buoyancy-driven exchange flows in inclined pipes. Physics of Fluids, 2017, 29, .	1.6	4
60	Titania nanostructured coating for corrosion mitigation of stainless steel. Protection of Metals and Physical Chemistry of Surfaces, 2014, 50, 371-377.	0.3	3
61	Employing relay ordering in incremental amplify and forward Relaying technique to improve outage probability. , 2011, , .		2
62	Offspring sex ratio of Iranian dentists. Environmental Health and Preventive Medicine, 2016, 21, 446-449.	1.4	2
63	Knowledge of and Attitudes Toward Preventive Oral Health Care at an Iranian Population. Asian Journal of Epidemiology, 2013, 7, 9-15.	0.5	2
64	Sessile-Water-Droplet Contact Angle: the Effect of Adsorption. , 2010, , .		1
65	A Hybrid Geothermal-Solar Power System: Optimal Design and Operation. , 2013, , .		1
66	An in situ method on kinetics of gas hydrates. Review of Scientific Instruments, 2019, 90, 035111.	0.6	1
67	Comment on â€œDiscussion on a mechanical equilibrium condition of a sessile drop on a smooth solid surfaceâ€•[J. Chem. Phys. 130, 144106 (2009)]. Journal of Chemical Physics, 2011, 134, 247101.	1.2	0
68	Invariant for one-dimensional heat conduction in dielectrics and metals. Europhysics Letters, 2017, 118, 34001.	0.7	0
69	Reply to the Comment by Hamou Sadat et al.. Europhysics Letters, 2018, 123, 54002.	0.7	0
70	Unprecedented Capillary Evaporative Heat Flux in Nanochannels. , 2019, , .		0
71	10.1063/1.4993775.1. , 2017, , .		0
72	10.1063/1.5082333.1. , 2019, , .		0