

Seyed Mohsen Peyghambarzadeh

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74
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ext. citations

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L-index

#	Paper	IF	Citations
74	Experimental study of heat transfer enhancement using water/ethylene glycol based nanofluids as a new coolant for car radiators. <i>International Communications in Heat and Mass Transfer</i> , 2011 , 38, 1283-1290	5.8	241
73	Improving the cooling performance of automobile radiator with Al ₂ O ₃ /water nanofluid. <i>Applied Thermal Engineering</i> , 2011 , 31, 1833-1838	5.8	209
72	Experimental study of overall heat transfer coefficient in the application of dilute nanofluids in the car radiator. <i>Applied Thermal Engineering</i> , 2013 , 52, 8-16	5.8	142
71	Parametric study of overall heat transfer coefficient of CuO/water nanofluids in a car radiator. <i>International Journal of Thermal Sciences</i> , 2013 , 66, 82-90	4.1	137
70	Performance of water based CuO and Al ₂ O ₃ nanofluids in a CuBe alloy heat sink with rectangular microchannels. <i>Energy Conversion and Management</i> , 2014 , 86, 28-38	10.6	106
69	Experimental investigation on heat transfer performance of /water nanofluid in an air-finned heat exchanger. <i>European Journal of Mechanics, B/Fluids</i> , 2014 , 44, 32-41	2.4	82
68	Thermal performance and efficiency of a thermosyphon heat pipe working with a biologically ecofriendly nanofluid. <i>International Communications in Heat and Mass Transfer</i> , 2014 , 57, 297-303	5.8	77
67	Role of nanofluid fouling on thermal performance of a thermosyphon: Are nanofluids reliable working fluid?. <i>Applied Thermal Engineering</i> , 2015 , 82, 212-224	5.8	76
66	Particulate fouling of CuO/water nanofluid at isothermal diffusive condition inside the conventional heat exchanger-experimental and modeling. <i>Experimental Thermal and Fluid Science</i> , 2015 , 60, 83-95	3	73
65	Thermal behavior of aqueous iron oxide nano-fluid as a coolant on a flat disc heater under the pool boiling condition. <i>Heat and Mass Transfer</i> , 2017 , 53, 265-275	2.2	72
64	On the fouling formation of functionalized and non-functionalized carbon nanotube nano-fluids under pool boiling condition. <i>Applied Thermal Engineering</i> , 2016 , 95, 433-444	5.8	72
63	Experimental study on the heat transfer and flow properties of Al ₂ O ₃ /water nanofluid in a double-tube heat exchanger. <i>Journal of Thermal Analysis and Calorimetry</i> , 2017 , 127, 2561-2575	4.1	65
62	Forced convective and subcooled flow boiling heat transfer to pure water and n-heptane in an annular heat exchanger. <i>Annals of Nuclear Energy</i> , 2013 , 53, 401-410	1.7	64
61	Experimental study on subcooled flow boiling heat transfer to water-diethylene glycol mixtures as a coolant inside a vertical annulus. <i>Experimental Thermal and Fluid Science</i> , 2013 , 50, 154-162	3	60
60	Pool boiling heat transfer to aqueous alumina nano-fluids on the plain and concentric circular micro-structured (CCM) surfaces. <i>Experimental Thermal and Fluid Science</i> , 2016 , 72, 125-139	3	58
59	Enhancement of nucleate pool boiling heat transfer to dilute binary mixtures using endothermic chemical reactions around the smoothed horizontal cylinder. <i>Heat and Mass Transfer</i> , 2012 , 48, 1755-1765	2.2	47
58	Application of asymptotic model for the prediction of fouling rate of calcium sulfate under subcooled flow boiling. <i>Applied Thermal Engineering</i> , 2012 , 39, 105-113	5.8	43

57	Upward Flow Boiling to DI-Water and CuO Nanofluids Inside the Concentric Annuli. <i>Journal of Applied Fluid Mechanics</i> , 2015 , 8, 651-659	1.5	43
56	Subcooled flow boiling heat transfer of ethanol aqueous solutions in vertical annulus space. <i>Chemical Industry and Chemical Engineering Quarterly</i> , 2012 , 18, 315-327	0.7	41
55	Experimental and theoretical study of CO ₂ solubility in N-methyl-2-pyrrolidone (NMP). <i>Fluid Phase Equilibria</i> , 2014 , 365, 106-111	2.5	36
54	Influence of thermodynamic models on the prediction of pool boiling heat transfer coefficient of dilute binary mixtures. <i>International Communications in Heat and Mass Transfer</i> , 2012 , 39, 1303-1310	5.8	35
53	Nucleate pool boiling heat transfer of binary nano mixtures under atmospheric pressure around a smooth horizontal cylinder. <i>Periodica Polytechnica: Chemical Engineering</i> , 2013 , 57, 71	1.3	32
52	Efficient adsorption of cobalt on chemical modified activated carbon: characterization, optimization and modeling studies 111, 310-321		27
51	Local convective heat transfer coefficient and friction factor of CuO/water nanofluid in a microchannel heat sink. <i>Heat and Mass Transfer</i> , 2017 , 53, 661-671	2.2	25
50	Influences of bubble formation on different types of heat exchanger fouling. <i>Applied Thermal Engineering</i> , 2013 , 50, 848-856	5.8	22
49	Experimental study of forced convection and subcooled flow boiling heat transfer in a vertical annulus using different novel functionalized ZnO nanoparticles. <i>Applied Thermal Engineering</i> , 2016 , 109, 789-802	5.8	20
48	CO ₂ absorption using aqueous solution of potassium carbonate: Experimental measurement and thermodynamic modeling. <i>Fluid Phase Equilibria</i> , 2017 , 447, 132-141	2.5	19
47	Pool Boiling Heat Transfer in Diluted Water/Glycerol Binary Solutions. <i>Heat Transfer Engineering</i> , 2013 , 34, 828-837	1.7	18
46	Experimental studies on nucleate pool boiling heat transfer to ethanol/MEG/DEG ternary mixture as a new coolant. <i>Chemical Industry and Chemical Engineering Quarterly</i> , 2012 , 18, 577-586	0.7	18
45	Experimental measurement and thermodynamic modeling of propylene and propane solubility in N-methyl pyrrolidone (NMP). <i>Fluid Phase Equilibria</i> , 2015 , 387, 190-197	2.5	17
44	Experimental and analytical study of solubility of carbon dioxide in aqueous solutions of potassium carbonate. <i>International Journal of Greenhouse Gas Control</i> , 2014 , 29, 169-175	4.2	17
43	Different methods to calculate heat transfer coefficient in a double-tube heat exchanger: A comparative study. <i>Experimental Heat Transfer</i> , 2018 , 31, 32-46	2.4	16
42	Experimental investigation on heat transfer and flow resistance of drag-reducing alumina nanofluid in a fin-and-tube heat exchanger. <i>Applied Thermal Engineering</i> , 2018 , 144, 926-936	5.8	15
41	Heat transfer and Marangoni flow in a circular heat pipe using self-rewetting fluids. <i>Experimental Heat Transfer</i> , 2017 , 30, 218-234	2.4	14
40	Thermal performance of different working fluids in a dual diameter circular heat pipe. <i>Ain Shams Engineering Journal</i> , 2013 , 4, 855-861	4.4	13

39	Saturated nucleate boiling to binary and ternary mixtures on horizontal cylinder. <i>Experimental Thermal and Fluid Science</i> , 2009 , 33, 903-911	3	13
38	Gas absorption using a nanofluid solvent: kinetic and equilibrium study. <i>Heat and Mass Transfer</i> , 2014 , 50, 1699-1706	2.2	12
37	Statistical Analysis of Nanofluid Heat Transfer in a Heat Exchange System. <i>Journal of Thermophysics and Heat Transfer</i> , 2013 , 27, 320-325	1.3	12
36	Dried activated sludge as an appropriate biosorbent for removal of copper (II) ions. <i>Arabian Journal of Chemistry</i> , 2015 , 8, 858-864	5.9	11
35	Experimental measurement of propane and propylene absorption in NMP/AgNO ₃ solvent. <i>Chemical Engineering Research and Design</i> , 2017 , 117, 240-249	5.5	11
34	Experimental study of micro-particle fouling under forced convective heat transfer. <i>Brazilian Journal of Chemical Engineering</i> , 2012 , 29, 713-724	1.7	11
33	Artificial boiling heat transfer in the free convection to carbonic acid solution. <i>Experimental Thermal and Fluid Science</i> , 2011 , 35, 645-652	3	11
32	Experimental and theoretical study of pool boiling heat transfer to amine solutions. <i>Brazilian Journal of Chemical Engineering</i> , 2009 , 26, 33-43	1.7	11
31	Experimental study of the effect of drag reducing agent on pressure drop and thermal efficiency of an air cooler. <i>Heat and Mass Transfer</i> , 2016 , 52, 63-72	2.2	10
30	Experimental investigation of heat transfer enhancement using ionic liquid-Al ₂ O ₃ hybrid nanofluid in a cylindrical microchannel heat sink. <i>Applied Thermal Engineering</i> , 2021 , 191, 116879	5.8	10
29	Experimental study of the effect of drag reducing agent on heat transfer and pressure drop characteristics. <i>Experimental Heat Transfer</i> , 2018 , 31, 68-84	2.4	9
28	Photographic study of bubble departure diameter in saturated pool boiling to electrolyte solutions. <i>Chemical Industry and Chemical Engineering Quarterly</i> , 2014 , 20, 143-153	0.7	9
27	Pb (..) REMOVAL FROM AQUEOUS SOLUTION BY ADSORPTION ON ACTIVATED CARBON FROM KIWI PEEL. <i>Environmental Engineering and Management Journal</i> , 2018 , 17, 1293-1300	0.6	7
26	Boiling Thermal Performance of TiO ₂ Aqueous NanoFluids as a Coolant on a Disc Copper Block. <i>Periodica Polytechnica: Chemical Engineering</i> , 2015 ,	1.3	6
25	Statistical analysis of calcium sulfate scaling under boiling heat transfer. <i>Applied Thermal Engineering</i> , 2013 , 53, 108-113	5.8	6
24	Experimental investigation of the particle size effect on heat transfer coefficient of Al ₂ O ₃ nanofluid in a cylindrical microchannel heat sink. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020 , 141, 957-967	4.1	5
23	Experimental study on optimum concentration of polyacrylamide for drag reduction and heat transfer performance in a compact heat exchanger. <i>Heat and Mass Transfer</i> , 2019 , 55, 1503-1511	2.2	5
22	Modification of carbon paste electrode by surfactant-modified ZSM-5 nanozeolite for potentiometric determination of sulfate. <i>Desalination and Water Treatment</i> , 2015 , 56, 1622-1632		4

21	Application of general multilevel factorial design approach in forced convection and subcooled flow boiling heat transfer to CuO/water nanofluids. <i>Journal of Molecular Liquids</i> , 2020 , 313, 113502	6	4
20	Thermo-economic optimization of steam injection operation in enhanced oil recovery (EOR) using nano-thermal insulation. <i>Energy</i> , 2021 , 226, 120409	7.9	4
19	The modelling and experimental study on molecular diffusion coefficient of CO ₂ in N-methyl pyrrolidone. <i>Separation Science and Technology</i> , 2017 , 52, 2435-2442	2.5	3
18	Influence of fluid flow rate on the fouling resistance of calcium sulfate aqueous solution in subcooled flow boiling condition. <i>International Journal of Thermal Sciences</i> , 2020 , 154, 106397	4.1	3
17	Experimental study and thermodynamic modelling of ethylene absorption in N-methyl-2-pyrrolidone (NMP). <i>Applied Petrochemical Research</i> , 2020 , 10, 95-105	1.9	3
16	Influence of thermal shock on the mitigation of calcium sulfate crystallization fouling under subcooled flow boiling condition. <i>Applied Thermal Engineering</i> , 2020 , 164, 114434	5.8	3
15	Experimental study of implementing nano thermal insulation coating on the steam injection tubes in enhanced oil recovery operation for reducing heat loss. <i>Journal of Petroleum Science and Engineering</i> , 2020 , 189, 107012	4.4	2
14	Enhancement of the pool boiling heat transfer coefficient using the gas injection into the water. <i>Polish Journal of Chemical Technology</i> , 2012 , 14, 100-109	1	2
13	The effect of polyacrylamide drag reducing agent on friction factor and heat transfer coefficient in laminar, transition and turbulent flow regimes in circular pipes with different diameters. <i>International Journal of Heat and Mass Transfer</i> , 2020 , 154, 119815	4.9	2
12	Intensification of ethylene and ethane absorption in N-methyl-2-pyrrolidone (NMP) by adding silver nanoparticles. <i>Chemical Engineering and Processing: Process Intensification</i> , 2020 , 158, 108184	3.7	2
11	Solubility of ethylene in N-methyl-2-pyrrolidone: Experimental study and estimation of UNIQUAC activity model parameters. <i>Korean Journal of Chemical Engineering</i> , 2021 , 38, 852-861	2.8	2
10	Ethylene absorption in N-methyl-2-pyrrolidone/silver nano-solvent: Thermodynamics and kinetics study. <i>Chinese Journal of Chemical Engineering</i> , 2021 , 36, 57-66	3.2	2
9	Forced Convective and Subcooled Flow Boiling Heat Transfer to Water/Al ₂ O ₃ Microfluid in an Annular Heat Exchanger. <i>Iranian Journal of Science and Technology - Transactions of Mechanical Engineering</i> , 2019 , 43, 869-879	1.2	1
8	Estimation of binary interaction parameters of different equations of state using ethane experimental solubility data in N-methyl-2-pyrrolidone (NMP) solvent. <i>Chemical Papers</i> , 2022 , 76, 1789	1.9	1
7	Assessment of Fe ₃ O ₄ /water nanofluid for enhancing laminar convective heat transfer in a car radiator. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020 , 146, 841	4.1	1
6	Comprehensive Study of the Effect of the Addition of Four Drag Reducing Macromolecules on the Pressure Drop and Heat Transfer Performance of Water in a Finned Tube Heat Exchanger. <i>Journal of Macromolecular Science - Physics</i> , 2020 , 59, 747-773	1.4	0
5	Simulation of heat transfer and fluid flow of hot oil in radiation section of an industrial furnace considering coke deposition. <i>Journal of Thermal Analysis and Calorimetry</i> , 1	4.1	0
4	Hazardous air pollutants emission characteristic and environmental effect of typical petrochemical incinerators. <i>International Journal of Environmental Science and Technology</i> , 2020 , 17, 3771-3784	3.3	

- 3 Experimental study on the influence of SO₂ gas injection to pure liquids on pool boiling heat transfer coefficients. *Heat and Mass Transfer*, **2014**, 50, 747-757 2.2
- 2 Mathematical modeling of air duct heater using the finite difference method. *Polish Journal of Chemical Technology*, **2011**, 13, 47-52 1
- 1 AIR POLLUTION BY HEAVY METALS FROM PETROCHEMICAL INCINERATORS: MEASUREMENT AND DISPERSION MODELLING. *Environmental Engineering and Management Journal*, **2020**, 19, 379-390 0.6