

# Babak Aghel

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

44 papers	868 citations	19 h-index	28 g-index
47 ext. papers	1,223 ext. citations	5.3 avg, IF	5.32 L-index

#	Paper	IF	Citations
44	Optimizing the Production of Biodiesel from Waste Cooking Oil Utilizing Industrial Waste-Derived MgO/CaO Catalysts. <i>Chemical Engineering and Technology</i> , <b>2022</b> , 45, 348-354	2	1
43	Transesterification of waste cooking oil using clinoptilolite/ industrial phosphoric waste as green and environmental catalysts. <i>Energy</i> , <b>2022</b> , 244, 123138	7.9	2
42	Application of Nanofluids in CO <sub>2</sub> Absorption: A Review. <i>Applied Sciences (Switzerland)</i> , <b>2022</b> , 12, 3200	2.6	1
41	Discrimination between Pore and Throat Resistances against Single-Phase Flow in Porous Media. <i>Water (Switzerland)</i> , <b>2022</b> , 14, 1064	3	
40	Intensified biogas upgrading via various wastewater using microchannel. <i>Chemical Engineering and Processing: Process Intensification</i> , <b>2022</b> , 108927	3.7	0
39	A review of recent progress in biogas upgrading: With emphasis on carbon capture. <i>Biomass and Bioenergy</i> , <b>2022</b> , 160, 106422	5.3	4
38	Transesterification of waste cooking oil using Clay/CaO as a solid base catalyst. <i>Energy</i> , <b>2021</b> , 122536	7.9	3
37	The effect of alkanolamine mixtures on CO <sub>2</sub> absorption efficiency in T-Shaped microchannel. <i>Environmental Technology and Innovation</i> , <b>2021</b> , 24, 102006	7	4
36	Forecasting of water thermal conductivity enhancement by adding nano-sized alumina particles. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2021</b> , 145, 1791-1800	4.1	8
35	Biodiesel production from waste cooking oil using wheat bran ash as a sustainable biomass. <i>Fuel</i> , <b>2021</b> , 295, 120542	7.1	23
34	Removal of dissolved oxygen from industrial raw water in a microchannel. <i>Environmental Technology and Innovation</i> , <b>2021</b> , 23, 101672	7	3
33	Estimation of kinematic viscosity of biodiesel-diesel blends: Comparison among accuracy of intelligent and empirical paradigms. <i>Renewable Energy</i> , <b>2021</b> , 177, 318-326	8.1	18
32	Desorption of carbon dioxide from a mixture of monoethanolamine with alcoholic solvents in a microreactor. <i>Fuel</i> , <b>2021</b> , 306, 121636	7.1	5
31	Comparison of aqueous and non-aqueous alkanolamines solutions for carbon dioxide desorption in a microreactor. <i>Energy</i> , <b>2020</b> , 201, 117618	7.9	16
30	Review on microfluidic device applications for fluids separation and water treatment processes. <i>SN Applied Sciences</i> , <b>2020</b> , 2, 1	1.8	9
29	Study of the transesterification of waste cooking oil for the production of biodiesel in a microreactor pilot: The effect of acetone as the co-solvent. <i>Fuel</i> , <b>2020</b> , 273, 117736	7.1	33
28	Remediation of Spent Caustic in the Wastewater of Oil Refinery by Photo-Fenton Process <b>2020</b> , 9, 179-188		2

27	Feature validity during machine learning paradigms for predicting biodiesel purity. <i>Fuel</i> , <b>2020</b> , 262, 116498	2.2	22
26	Liquid-liquid equilibrium of a ternary system of water+ ethanol+ benzene or furfural in a micro-extractor: experimental investigation and thermodynamic modeling. <i>Separation Science and Technology</i> , <b>2020</b> , 55, 3402-3411	2.5	2
25	The feasibility of Levenberg-Marquardt algorithm combined with imperialist competitive computational method predicting drag reduction in crude oil pipelines. <i>Journal of Petroleum Science and Engineering</i> , <b>2020</b> , 185, 106634	4.4	26
24	The use of KOH/Clinoptilolite catalyst in pilot of microreactor for biodiesel production from waste cooking oil. <i>Fuel</i> , <b>2020</b> , 263, 116659	7.1	53
23	Carbon dioxide desorption from aqueous solutions of monoethanolamine and diethanolamine in a microchannel reactor. <i>Separation and Purification Technology</i> , <b>2020</b> , 237, 116390	8.3	19
22	Use of modified Iranian clinoptilolite zeolite for cadmium and lead removal from oil refinery wastewater. <i>International Journal of Environmental Science and Technology</i> , <b>2020</b> , 17, 1239-1250	3.3	15
21	Application of the microchannel reactor to carbon dioxide absorption. <i>Journal of Cleaner Production</i> , <b>2019</b> , 231, 723-732	10.3	22
20	Simulation of pentane plant of Kermanshah oil refinery company. <i>Petroleum Science and Technology</i> , <b>2019</b> , 37, 1917-1923	1.4	1
19	Pilot-scale production of biodiesel from waste cooking oil using kettle limescale as a heterogeneous catalyst. <i>Renewable Energy</i> , <b>2019</b> , 142, 207-214	8.1	37
18	Modeling and prediction of water quality parameters using a hybrid particle swarm optimization-Neural fuzzy approach. <i>International Journal of Environmental Science and Technology</i> , <b>2019</b> , 16, 4823-4832	3.3	22
17	Applications of rice husk ash as green and sustainable biomass. <i>Journal of Cleaner Production</i> , <b>2019</b> , 237, 117851	10.3	70
16	Experimental study of carbon dioxide absorption by mixed aqueous solutions of methyl diethanolamine (MDEA) and piperazine (PZ) in a microreactor. <i>Chemical Engineering Research and Design</i> , <b>2019</b> , 131, 152-159	5.5	26
15	Production of biodiesel from waste cooking oil using a homogeneous catalyst: Study of semi-industrial pilot of microreactor. <i>Renewable Energy</i> , <b>2019</b> , 136, 677-682	8.1	72
14	Effect of Different Cosolvents on Transesterification of Waste Cooking Oil in a Microreactor. <i>Chemical Engineering and Technology</i> , <b>2018</b> , 41, 598-605	2	21
13	Optimization of monoethanolamine for CO <sub>2</sub> absorption in a microchannel reactor. <i>Journal of CO<sub>2</sub> Utilization</i> , <b>2018</b> , 28, 264-273	7.6	26
12	Optimization of biodiesel production process in a continuous microchannel using response surface methodology. <i>Korean Journal of Chemical Engineering</i> , <b>2017</b> , 34, 1013-1020	2.8	21
11	New heterogeneous process for continuous biodiesel production in microreactors. <i>Canadian Journal of Chemical Engineering</i> , <b>2017</b> , 95, 1280-1287	2.3	20
10	Heat-transfer enhancement of two-phase closed thermosyphon using a novel cross-flow condenser. <i>Heat and Mass Transfer</i> , <b>2017</b> , 53, 765-773	2.2	11

9	Experimental study on heat transfer characteristics of a modified two-phase closed thermosyphon. <i>Thermal Science</i> , <b>2017</b> , 21, 2481-2489	1.2	5
8	On the viscosity of natural gas. <i>Fuel</i> , <b>2015</b> , 150, 609-618	7.1	23
7	Optimization of biodiesel production from soybean oil in a microreactor. <i>Energy Conversion and Management</i> , <b>2014</b> , 79, 599-605	10.6	110
6	Using a wire coil insert for biodiesel production enhancement in a microreactor. <i>Energy Conversion and Management</i> , <b>2014</b> , 84, 541-549	10.6	48
5	CFD modeling of mixing intensification assisted with ultrasound wave in a T-type microreactor. <i>Chemical Engineering and Processing: Process Intensification</i> , <b>2014</b> , 86, 36-46	3.7	32
4	Using Y-shaped microreactor for continuous decolorization of an Azo dye. <i>Desalination and Water Treatment</i> , <b>2014</b> , 52, 5513-5519		13
3	Experimental and CFD studies on using coil wire insert in a proton exchange membrane fuel cell. <i>Chemical Engineering and Processing: Process Intensification</i> , <b>2010</b> , 49, 689-696	3.7	8
2	Biodiesel production from waste cooking oil in a micro-sized reactor in the presence of cow bone-based KOH catalyst. <i>Biomass Conversion and Biorefinery</i> , 1	2.3	3
1	Stripping of hydrogen sulfide from crude oil desalter effluent via different adsorbents. <i>International Journal of Environmental Science and Technology</i> , 1	3.3	0