

Abbas Elhambakhsh

List of Publications by Year in descending order

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15
papers

257
citations

840776

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996975

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15
docs citations

15
times ranked

86
citing authors

#	ARTICLE	IF	CITATIONS
1	Investigation of Carbon Dioxide Absorption Using Different Functionalized Fe ₃ O ₄ Magnetic Nanoparticles. Energy & Fuels, 2020, 34, 7198-7208.	5.1	42
2	Synthesis of different modified magnetic nanoparticles for selective physical/chemical absorption of CO ₂ in a bubble column reactor. Journal of Environmental Chemical Engineering, 2020, 8, 104195.	6.7	41
3	Effects of different amin-based core-shell magnetic NPs on CO ₂ capture using NMP solution at high pressures. Journal of Natural Gas Science and Engineering, 2020, 84, 103645.	4.4	25
4	Effect of Modified Fe ₃ O ₄ Magnetic NPs on the Absorption Capacity of CO ₂ in Water, Wettability Alteration of Carbonate Rock Surface, and Water–Oil Interfacial Tension for Oilfield Applications. Industrial & Engineering Chemistry Research, 2021, 60, 3421-3434.	3.7	25
5	Glutamine functionalized iron oxide nanoparticles for high-performance carbon dioxide absorption. Journal of Natural Gas Science and Engineering, 2021, 94, 104081.	4.4	22
6	Enhanced CO ₂ capture efficiency applying amine-based nano magnetite/sulfinol-M nano solvents at high pressures. Environmental Science and Pollution Research, 2021, 28, 3455-3464.	5.3	19
7	Highly Selective Physical/Chemical CO ₂ Separation by Functionalized Fe ₃ O ₄ Nanoparticles in Hollow Fiber Membrane Contactors: Experimental and Modeling Approaches. Energy & Fuels, 2022, 36, 4456-4469.	5.1	17
8	Experimental study of carbon dioxide absorption by Fe ₂ O ₃ @glutamine/NMP nanofluid. Environmental Science and Pollution Research, 2022, 29, 1060-1072.	5.3	15
9	Air dehumidification using various TEG based nano solvents in hollow fiber membrane contactors. Heat and Mass Transfer, 2021, 57, 1623-1631.	2.1	13
10	CO ₂ separation by rotating liquid sheet contactor: A novel procedure to improve mass transfer characterization. Chemical Engineering Research and Design, 2021, 172, 120-126.	5.6	13
11	Sono-hollow fiber membrane contactors: A new approach for CO ₂ separation by physical/chemical absorbents. Journal of Natural Gas Science and Engineering, 2022, 101, 104538.	4.4	13
12	Treatment of methyldiethanolamine wastewater using subcritical and supercritical water oxidation: parameters study, process optimization and degradation mechanism. Environmental Science and Pollution Research, 2022, 29, 57688-57702.	5.3	6
13	Absorption increment of various physical/chemical CO ₂ absorbents using CeO ₂ /SiO ₂ /TiO ₂ nanocomposite. Chemical Papers, 2022, 76, 4817-4834.	2.2	4
14	Insight into the application of supercritical water oxidation for dichlorvos degradation: experimental and simulation aspects. Environmental Technology (United Kingdom), 2023, 44, 4113-4122.	2.2	1
15	Coating SiO ₂ nanoparticles with polyvinyl alcohol for interfacial tension alteration in the system CO ₂ +polyethylen glycol+water. Surfaces and Interfaces, 2022, 32, 102164.	3.0	1