

Seyed Ali Nabavi

List of Publications by Year in descending order

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33
papers

1,531
citations

471061

17
h-index

414034

32
g-index

33
all docs

33
docs citations

33
times ranked

1671
citing authors

#	ARTICLE	IF	CITATIONS
1	A review of developments in carbon dioxide storage. <i>Applied Energy</i> , 2017, 208, 1389-1419.	5.1	517
2	Double emulsion production in glass capillary microfluidic device: Parametric investigation of droplet generation behaviour. <i>Chemical Engineering Science</i> , 2015, 130, 183-196.	1.9	122
3	Microfluidic Production of Multiple Emulsions. <i>Micromachines</i> , 2017, 8, 75.	1.4	115
4	Mechanisms and control of single-step microfluidic generation of multi-core double emulsion droplets. <i>Chemical Engineering Journal</i> , 2017, 322, 140-148.	6.6	80
5	Structured Biodegradable Polymeric Microparticles for Drug Delivery Produced Using Flow Focusing Glass Microfluidic Devices. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 23132-23143.	4.0	72
6	Advances, challenges, and perspectives of biogas cleaning, upgrading, and utilisation. <i>Fuel</i> , 2022, 317, 123085.	3.4	63
7	Dynamics of double emulsion break-up in three phase glass capillary microfluidic devices. <i>Journal of Colloid and Interface Science</i> , 2015, 450, 279-287.	5.0	58
8	Prediction and control of drop formation modes in microfluidic generation of double emulsions by single-step emulsification. <i>Journal of Colloid and Interface Science</i> , 2017, 505, 315-324.	5.0	54
9	Nitrogen-rich hyper-crosslinked polymers for low-pressure CO ₂ capture. <i>Chemical Engineering Journal</i> , 2018, 334, 2004-2013.	6.6	53
10	Carbonation of lime-based materials under ambient conditions for direct air capture. <i>Journal of Cleaner Production</i> , 2020, 242, 118330.	4.6	46
11	Production of molecularly imprinted polymer particles with amide-decorated cavities for CO ₂ capture using membrane emulsification/suspension polymerisation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017, 521, 231-238.	2.3	34
12	Semipermeable Elastic Microcapsules for Gas Capture and Sensing. <i>Langmuir</i> , 2016, 32, 9826-9835.	1.6	33
13	Production of spherical mesoporous molecularly imprinted polymer particles containing tunable amine decorated nanocavities with CO ₂ molecule recognition properties. <i>Chemical Engineering Journal</i> , 2016, 306, 214-225.	6.6	32
14	Technical and economic feasibility evaluation of calcium looping with no CO ₂ recirculation. <i>Chemical Engineering Journal</i> , 2018, 335, 763-773.	6.6	32
15	Synthesis of Size-Tunable CO ₂ -Phobic Imprinted Polymeric Particles (MIPs) for Low-Pressure CO ₂ Capture Using Oil-in-Oil Suspension Polymerization. <i>Environmental Science & Technology</i> , 2017, 51, 11476-11483.	4.6	30
16	Homes of the future: Unpacking public perceptions to power the domestic hydrogen transition. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 164, 112481.	8.2	30
17	CO ₂ -brine-rock interactions: The effect of impurities on grain size distribution and reservoir permeability. <i>International Journal of Greenhouse Gas Control</i> , 2018, 78, 168-176.	2.3	23
18	Effect of combined primary and secondary amine loadings on the adsorption mechanism of CO ₂ and CH ₄ in biogas. <i>Chemical Engineering Journal</i> , 2021, 420, 130294.	6.6	21

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19	Eco-Friendly Fabrication of a Highly Selective Amide-Based Polymer for CO ₂ Capture. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 18160-18167.	1.8	17
20	Formulation, adsorption performance, and mechanical integrity of triamine grafted binder-based mesoporous silica pellets for CO ₂ capture. <i>Powder Technology</i> , 2021, 393, 257-264.	2.1	14
21	Effect of impurities on ultra-pure hydrogen production by pressure vacuum swing adsorption. <i>Journal of Industrial and Engineering Chemistry</i> , 2020, 82, 278-289.	2.9	12
22	Production of negative-emission biomethane by twin double-bed pressure swing adsorption with tail gas sequestration. <i>Chemical Engineering Journal</i> , 2021, 408, 127312.	6.6	12
23	Assessment of optimal conditions for the performance of greenhouse gas removal methods. <i>Journal of Environmental Management</i> , 2021, 294, 113039.	3.8	12
24	Thermal Management System Architecture for Hydrogen-Powered Propulsion Technologies: Practices, Thematic Clusters, System Architectures, Future Challenges, and Opportunities. <i>Energies</i> , 2022, 15, 304.	1.6	10
25	3D CFD modelling of liquid dispersion in structured packed bed column for CO ₂ capture. <i>Chemical Engineering Science</i> , 2020, 225, 115800.	1.9	8
26	Demonstration of a kW-scale solid oxide fuel cell-calciner for power generation and production of calcined materials. <i>Applied Energy</i> , 2019, 255, 113731.	5.1	6
27	CO ₂ capture performance and environmental impact of copolymers of ethylene glycol dimethacrylate with acrylamide, methacrylamide and triallylamine. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 103536.	3.3	6
28	Thermodynamic models applied to CO ₂ absorption modelling. <i>Reviews in Chemical Engineering</i> , 2019, .	2.3	5
29	Numerical Analysis of the Effects of Using Effervescent Atomization on Solution Precursor Thermal Spraying Process. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 14231-14244.	1.8	4
30	The Role of Bi-Polar Plate Design and the Start-Up Protocol in the Spatiotemporal Dynamics during Solid Oxide Fuel Cell Anode Reduction. <i>Energies</i> , 2020, 13, 3552.	1.6	4
31	Evaluation of Moderately Grafted Primary, Diamine, and Triamine Sorbents for CO ₂ Adsorption from Ambient Air: Balancing Kinetics and Capacity under Humid Conditions. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 13309-13317.	1.8	4
32	Simulative optimization of catalyst configuration for biogas dry reforming. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 12835-12845.	3.8	2
33	Pilot-scale calcination of limestone in steam-rich gas for direct air capture. <i>Energy Conversion and Management: X</i> , 2019, 1, 100007.	0.9	0