

Umer Zahid

List of Publications by Year in descending order

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41
papers

569
citations

623574

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h-index

677027

22
g-index

41
all docs

41
docs citations

41
times ranked

490
citing authors

#	ARTICLE	IF	CITATIONS
1	CO ₂ geological storage: A review on present and future prospects. Korean Journal of Chemical Engineering, 2011, 28, 674-685.	1.2	56
2	Multi-objective optimization of hydrogen liquefaction process integrated with liquefied natural gas system. Energy Conversion and Management, 2021, 231, 113835.	4.4	39
3	Simulation and parametric analysis of CO ₂ capture from natural gas using diglycolamine. International Journal of Greenhouse Gas Control, 2017, 57, 42-51.	2.3	38
4	Integration of IGCC and methane reforming process for power generation with CO ₂ capture. Chemical Engineering and Processing: Process Intensification, 2017, 111, 14-24.	1.8	34
5	Thermo-economic analysis of Phosphoric Acid Fuel-Cell (PAFC) integrated with Organic Ranking Cycle (ORC). Energy, 2021, 220, 119744.	4.5	30
6	IGCC process intensification for simultaneous power generation and CO ₂ capture. Chemical Engineering and Processing: Process Intensification, 2016, 101, 72-86.	1.8	25
7	Process simulation of dehydration unit for the comparative analysis of natural gas processing and carbon capture application. Chemical Engineering Research and Design, 2018, 137, 75-88.	2.7	24
8	Conceptual Design Development of Coal-to-Methanol Process with Carbon Capture and Utilization. Energies, 2020, 13, 6421.	1.6	24
9	Effect of process operating conditions in the biomass torrefaction: A simulation study using one-dimensional reactor and process model. Energy, 2015, 79, 127-139.	4.5	23
10	Conceptual design of syngas production by the integration of gasification and dry-reforming technologies with CO ₂ capture and utilization. Energy Conversion and Management, 2021, 244, 114485.	4.4	23
11	Deep Neural Network for Automatic Image Recognition of Engineering Diagrams. Applied Sciences (Switzerland), 2020, 10, 4005.	1.3	22
12	CO ₂ transport: design considerations and project outlook. Current Opinion in Chemical Engineering, 2015, 10, 42-48.	3.8	19
13	Simulation and Modelling of Hydrogen Production from Waste Plastics: Technoeconomic Analysis. Polymers, 2022, 14, 2056.	2.0	18
14	Techno-economic assessment of CO ₂ liquefaction for ship transportation. , 2014, 4, 734-749.		16
15	Process simulation and integration of IGCC systems for H ₂ /syngas/electricity generation with control on CO ₂ emissions. International Journal of Hydrogen Energy, 2019, 44, 7137-7148.	3.8	16
16	Process design of onboard membrane carbon capture and liquefaction systems for LNG-fueled ships. Separation and Purification Technology, 2022, 282, 120052.	3.9	16
17	Estimation of Disturbance Propagation Path Using Principal Component Analysis (PCA) and Multivariate Granger Causality (MVGC) Techniques. Industrial & Engineering Chemistry Research, 2017, 56, 7260-7272.	1.8	14
18	Design Modification of Acid Gas Cleaning Units for an Enhanced Performance in Natural Gas Processing. Energy & Fuels, 2020, 34, 2545-2552.	2.5	14

#	ARTICLE	IF	CITATIONS
19	Techno-economic analysis of acid gas removal from associated and non-associated sour gas using amine blend. <i>International Journal of Greenhouse Gas Control</i> , 2020, 98, 103078.	2.3	13
20	Techno-economic evaluation and design development of sour water stripping system in the refineries. <i>Journal of Cleaner Production</i> , 2019, 236, 117633.	4.6	12
21	Techno-economic evaluation of methanol production via gasification of vacuum residue and conventional reforming routes. <i>Chemical Engineering Research and Design</i> , 2022, 177, 365-375.	2.7	11
22	Economic analysis for the transport and storage of captured carbon dioxide in South Korea. <i>Environmental Progress and Sustainable Energy</i> , 2014, 33, 978-992.	1.3	10
23	Bayesian optimization of industrial-scale toluene diisocyanate liquid-phase jet reactor with 3-D computational fluid dynamics model. <i>Journal of Industrial and Engineering Chemistry</i> , 2021, 98, 327-339.	2.9	10
24	Design and Operation Strategy of CO ₂ Terminal. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 2353-2365.	1.8	7
25	Fault propagation path estimation in NGL fractionation process using principal component analysis. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2017, 162, 73-82.	1.8	7
26	A Novel Carbon-Resistant Perovskite Catalyst for Hydrogen Production Using Methane Dry Reforming. <i>Topics in Catalysis</i> , 2021, 64, 348-356.	1.3	7
27	Co-Production of Hydrogen and Methanol Using Fuel Mix Systems: Technical and Economic Assessment. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 6577.	1.3	7
28	Simulation of an Acid Gas Removal Unit Using a DGA and MDEA Blend Instead of a Single Amine. <i>Chemical Product and Process Modeling</i> , 2020, 15, .	0.5	5
29	Numerical Simulation of Coal Combustion in a Tangential Pulverized Boiler: Effect of Burner Vertical Tilt Angle. <i>Arabian Journal for Science and Engineering</i> , 0, , 1.	1.7	5
30	A Methodology for Designing Octane Number of Fuels Using Genetic Algorithms and Artificial Neural Networks. <i>Energy & Fuels</i> , 2022, 36, 3867-3880.	2.5	5
31	Modeling and Simulation of Prereformed Naphtha and Methane Steam Reforming in a Catalytic Membrane Reactor. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 13661-13673.	1.8	4
32	Techno-economic Assessment of Future Generation IGCC Processes with Control on Greenhouse Gas Emissions. <i>Computer Aided Chemical Engineering</i> , 2019, 46, 529-534.	0.3	3
33	Comparative analysis of gasification and reforming technologies for the syngas production. <i>Computer Aided Chemical Engineering</i> , 2019, 46, 1759-1764.	0.3	3
34	Techno-Economic Evaluation of Hydrogen Production via Gasification of Vacuum Residue Integrated with Dry Methane Reforming. <i>Sustainability</i> , 2021, 13, 13588.	1.6	3
35	Application case study of enhanced coal bed methane recovery process in tar coal fields. <i>Environmental Progress and Sustainable Energy</i> , 2018, 37, 900-911.	1.3	2
36	Utilization of Low-Rank Coals for Producing Syngas to Meet the Future Energy Needs: Technical and Economic Analysis. <i>Sustainability</i> , 2021, 13, 10724.	1.6	2

#	ARTICLE	IF	CITATIONS
37	Conceptual design of an off-shore topside CO ₂ injection system. International Journal of Greenhouse Gas Control, 2017, 66, 1-9.	2.3	1
38	Performance Analysis of Industrial CO ₂ Capture from Natural Gas using Diglycolamine. Computer Aided Chemical Engineering, 2017, 40, 2641-2646.	0.3	1
39	Effect of Liquefaction Plant Performance and Location on the Cost of CO ₂ Transport. Computer Aided Chemical Engineering, 2014, 33, 1651-1656.	0.3	0
40	Performance Enhancement of Acid Gas Cleaning Units in the Natural Gas Processing via Design Modification. Computer Aided Chemical Engineering, 2020, 48, 301-306.	0.3	0
41	Techno-Economic Assessment of Conceptual Design for Methanol Production Using Coal and Natural Gas Based Parallel Process Configuration. Computer Aided Chemical Engineering, 2020, , 1441-1446.	0.3	0