

Ali Abbas

List of Publications by Citations

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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.

88

papers

1,732

citations

24

h-index

39

g-index

94

ext. papers

2,148

ext. citations

5.9

avg, IF

5.27

L-index

#	Paper	IF	Citations
88	Global Potential of Rice Husk as a Renewable Feedstock for Ethanol Biofuel Production. <i>Bioenergy Research</i> , 2010 , 3, 328-334	3.1	100
87	A model-based analysis of CO ₂ utilization in methanol synthesis plant. <i>Journal of CO₂ Utilization</i> , 2015 , 10, 12-22	7.6	95
86	Solar-assisted Post-combustion Carbon Capture feasibility study. <i>Applied Energy</i> , 2012 , 92, 668-676	10.7	83
85	HEN optimization for efficient retrofitting of coal-fired power plants with post-combustion carbon capture. <i>International Journal of Greenhouse Gas Control</i> , 2011 , 5, 189-199	4.2	81
84	A comparative study of CO ₂ utilization in methanol synthesis with various syngas production technologies. <i>Journal of CO₂ Utilization</i> , 2015 , 12, 62-76	7.6	65
83	Impact of Flue Gas Compounds on Microalgae and Mechanisms for Carbon Assimilation and Utilization. <i>ChemSusChem</i> , 2018 , 11, 334-355	8.3	63
82	Evaluation of using thermoelectric coolers in a dehumidification system to generate freshwater from ambient air. <i>Chemical Engineering Science</i> , 2011 , 66, 2491-2501	4.4	60
81	Analysis for flexible operation of supercritical CO ₂ Brayton cycle integrated with solar thermal systems. <i>Energy</i> , 2017 , 124, 752-771	7.9	59
80	A comparative study of solar heliostat assisted supercritical CO ₂ recompression Brayton cycles: Dynamic modelling and control strategies. <i>Journal of Supercritical Fluids</i> , 2017 , 120, 113-124	4.2	57
79	Dynamic modelling and start-up operation of a solar-assisted recompression supercritical CO ₂ Brayton power cycle. <i>Applied Energy</i> , 2017 , 199, 247-263	10.7	55
78	Dynamic modelling and control strategies for flexible operation of amine-based post-combustion CO ₂ capture systems. <i>International Journal of Greenhouse Gas Control</i> , 2015 , 39, 377-389	4.2	49
77	Model-Based Optimal Strategies for Controlling Particle Size in Antisolvent Crystallization Operations. <i>Crystal Growth and Design</i> , 2008 , 8, 2698-2706	3.5	49
76	Optimizing an advanced hybrid of solar-assisted supercritical CO ₂ Brayton cycle: A vital transition for low-carbon power generation industry. <i>Energy Conversion and Management</i> , 2017 , 148, 1317-1331	10.6	47
75	Sustainable transformation of fly ash industrial waste into a construction cement blend via CO ₂ carbonation. <i>Journal of Cleaner Production</i> , 2017 , 156, 660-669	10.3	46
74	Potential for solar-assisted post-combustion carbon capture in Australia. <i>Applied Energy</i> , 2013 , 111, 175-185	10.7	45
73	Integration of solar energy in coal-fired power plants retrofitted with carbon capture: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2014 , 38, 1029-1044	16.2	44
72	Dynamic modelling, identification and preliminary control analysis of an amine-based post-combustion CO ₂ capture pilot plant. <i>Journal of Cleaner Production</i> , 2016 , 113, 635-653	10.3	36

71	Flexible dynamic operation of solar-integrated power plant with solvent based post-combustion carbon capture (PCC) process. <i>Energy Conversion and Management</i> , 2015 , 97, 7-19	10.6	34
70	Analysis of CO2 utilization for methanol synthesis integrated with enhanced gas recovery. <i>Journal of Cleaner Production</i> , 2016 , 112, 3540-3554	10.3	34
69	Advanced control strategies for dynamic operation of a solar-assisted recompression supercritical CO2 Brayton power cycle. <i>Applied Thermal Engineering</i> , 2018 , 136, 682-700	5.8	33
68	Experimentally validated model for atmospheric water generation using a solar assisted desiccant dehumidification system. <i>Energy and Buildings</i> , 2014 , 77, 236-246	7	32
67	Modeling and parametric analysis of hollow fiber membrane system for carbon capture from multicomponent flue gas. <i>AIChE Journal</i> , 2012 , 58, 1550-1561	3.6	26
66	The use of fly ashes from waste-to-energy processes as mineral CO sequesters and supplementary cementitious materials. <i>Journal of Hazardous Materials</i> , 2020 , 398, 122906	12.8	25
65	Model-based design and analysis of heat pipe working fluid for optimal performance in a concentric evacuated tube solar water heater. <i>Solar Energy</i> , 2013 , 94, 162-176	6.8	24
64	Automated process synthesis for optimal flowsheet design of a hybrid membrane cryogenic carbon capture process. <i>Journal of Cleaner Production</i> , 2017 , 150, 309-323	10.3	23
63	Temporal multiscalar decision support framework for flexible operation of carbon capture plants targeting low-carbon management of power plant emissions. <i>Applied Energy</i> , 2016 , 169, 912-926	10.7	23
62	Pyrolysis of waste tires: A modeling and parameter estimation study using Aspen Plus. <i>Waste Management</i> , 2017 , 60, 482-493	8.6	23
61	Graphene nanosheets derived from plastic waste for the application of DSSCs and supercapacitors. <i>Scientific Reports</i> , 2021 , 11, 3916	4.9	23
60	Analysis of di-methyl ether production routes: Process performance evaluations at various syngas compositions. <i>Chemical Engineering Science</i> , 2016 , 149, 143-155	4.4	22
59	Lovastatin and (+)-geodin production by <i>Aspergillus terreus</i> from crude glycerol. <i>Engineering in Life Sciences</i> , 2015 , 15, 220-228	3.4	20
58	Use of Predictive Solubility Models for Isothermal Antisolvent Crystallization Modeling and Optimization. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 8304-8313	3.9	20
57	Overexpression of acetyl-CoA carboxylase in <i>Aspergillus terreus</i> to increase lovastatin production. <i>New Biotechnology</i> , 2018 , 44, 64-71	6.4	18
56	Particle grinding by high-intensity ultrasound: Kinetic modeling and identification of breakage mechanisms. <i>AIChE Journal</i> , 2011 , 57, 2025-2035	3.6	18
55	A novel process for direct solvent regeneration via solar thermal energy for carbon capture. <i>Renewable Energy</i> , 2017 , 104, 60-75	8.1	17
54	A model-based approach for analysis of working fluids in heat pipes. <i>Applied Thermal Engineering</i> , 2014 , 73, 751-763	5.8	16

53	Water Storage Instead of Energy Storage for Desalination Powered by Renewable Energy King Island Case Study. <i>Energies</i> , 2016 , 9, 839	3.1	16
52	Mineral sequestration of CO ₂ using saprolite mine tailings in the presence of alkaline industrial wastes. <i>Journal of Cleaner Production</i> , 2018 , 188, 686-697	10.3	14
51	Model-based analysis of CO ₂ revalorization for di-methyl ether synthesis driven by solar catalytic reforming. <i>Applied Energy</i> , 2016 , 177, 863-878	10.7	14
50	Switchable DNA-origami nanostructures that respond to their environment and their applications. <i>Biophysical Reviews</i> , 2018 , 10, 1283-1293	3.7	14
49	The hybrid MPC-MINLP algorithm for optimal operation of coal-fired power plants with solvent based post-combustion CO ₂ capture. <i>Petroleum</i> , 2017 , 3, 155-166	4.1	13
48	Modeling and analysis of process configurations for solvent-based post-combustion carbon capture. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2015 , 10, 764-780	1.3	12
47	Dynamic modelling and analysis of a novel latent heat battery in tankless domestic solar water heating. <i>Energy and Buildings</i> , 2017 , 152, 227-242	7	11
46	Optimal Operation of Solvent-based Post-combustion Carbon Capture Processes with Reduced Models. <i>Energy Procedia</i> , 2013 , 37, 1500-1508	2.3	10
45	Tailored solar field and solvent storage for direct solvent regeneration: A novel approach to solarise carbon capture technology. <i>Applied Thermal Engineering</i> , 2020 , 171, 115119	5.8	9
44	Economic and policy evaluation of SPCC (solar-assisted post-combustion carbon capture) in Australia. <i>Energy</i> , 2015 , 93, 294-308	7.9	8
43	Environmental and economic impact of using increased fresh gas flow to reduce carbon dioxide absorbent consumption in the absence of inhalational anaesthetics. <i>British Journal of Anaesthesia</i> , 2020 , 125, 773-778	5.4	8
42	Modelling and sequential simulation of multi-tubular metallic membrane and techno-economics of a hydrogen production process employing thin-layer membrane reactor. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 19081-19097	6.7	8
41	In silico design of solvents for carbon capture with simultaneous optimisation of operating conditions. <i>International Journal of Greenhouse Gas Control</i> , 2014 , 30, 179-187	4.2	7
40	Fabrication of Cyclodextrin-mediated single bimolecular inclusion complex: characterization, molecular docking, in-vitro release and bioavailability studies for gefitinib and simvastatin conjugate. <i>Journal of Pharmacy and Pharmacology</i> , 2017 , 69, 1304-1317	4.8	7
39	A Modelling Framework for the Conceptual Design of Low-Emission Eco-Industrial Parks in the Circular Economy: A Case for Algae-Centered Business Consortia. <i>Water (Switzerland)</i> , 2021 , 13, 69	3	7
38	Modeling and Simulation Environments for Sustainable Low-Carbon Energy Production [A Review]. <i>Chemical Product and Process Modeling</i> , 2016 , 11, 97-124	1.1	6
37	Molecular studies of time- and environment-dependent effects on bone DNA survival. <i>Australian Journal of Forensic Sciences</i> , 2010 , 42, 211-220	1.1	6
36	Waste plastics derived graphene nanosheets for supercapacitor application. <i>Materials and Manufacturing Processes</i> , 2021 , 36, 171-177	4.1	6

35	Pretreatment Strategies to Improve Crude Glycerol Utilisation and Metabolite Production by <i>Aspergillus terreus</i> . <i>International Journal of Chemical Engineering</i> , 2019 , 2019, 1-6	2.2	5
34	Improved lovastatin production by inhibiting (+)-geodin biosynthesis in <i>Aspergillus terreus</i> . <i>New Biotechnology</i> , 2019 , 52, 19-24	6.4	5
33	A design protocol for enhanced discharge exergy in phase change material heat battery. <i>Applied Energy</i> , 2020 , 265, 114801	10.7	5
32	Effects of operating conditions on particle size in sonocrystallization. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2010 , 5, 599-608	1.3	5
31	Life Cycle Assessment of Disposed and Recycled End-of-Life Photovoltaic Panels in Australia. <i>Sustainability</i> , 2021 , 13, 11025	3.6	5
30	Understanding dietary carbohydrates in black soldier fly larvae treatment of organic waste in the circular economy. <i>Waste Management</i> , 2022 , 137, 9-19	8.6	5
29	Relevancy of Emission Reduction Fund (ERF) policy towards large-scale deployment of carbon capture technology in black coal-fired power plant. <i>Journal of Cleaner Production</i> , 2019 , 211, 1471-1479	10.3	5
28	Analysis for a solar stripper design for carbon capture under transient conditions. <i>International Journal of Heat and Mass Transfer</i> , 2021 , 166, 120799	4.9	5
27	Computer-aided design for high efficiency latent heat storage in a case study of a novel domestic solar hot water process. <i>Computer Aided Chemical Engineering</i> , 2017 , 1153-1158	0.6	4
26	Semi-quantitative PCR Analysis of DNA Degradation. <i>Australian Journal of Forensic Sciences</i> , 2011 , 43, 53-64	1.1	4
25	A Clustering Approach for the Separation of Touching Edges in Particle Images. <i>Particle and Particle Systems Characterization</i> , 2008 , 25, 143-152	3.1	4
24	Enhancing the performance of a solar-assisted adsorption chiller using advanced composite materials. <i>Computers and Chemical Engineering</i> , 2018 , 119, 406-424	4	4
23	Economic and environmental sustainability of low-carbon power generation: relevancy in the Malaysia Green Technology Master Plan (GTMP). <i>Journal of Chemical Technology and Biotechnology</i> , 2019 , 94, 1425-1432	3.5	3
22	Hypercapnia slows down proliferation and apoptosis of human bone marrow promyeloblasts. <i>Bioprocess and Biosystems Engineering</i> , 2016 , 39, 1465-75	3.7	3
21	Optimization-Based Design and Selection of Working Fluids for Heat Transfer: Case Study in Heat Pipes. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 920-929	3.9	3
20	A simulation-based analysis for the performance of thermal solar energy for pyrolysis applications. <i>International Journal of Energy Research</i> , 2021 , 45, 15022-15035	4.5	3
19	A new genetic algorithm based on prenatal genetic screening (PGS-GA) and its application in an automated process flowsheet synthesis problem for a membrane based carbon capture case-study. <i>Chemical Engineering Research and Design</i> , 2017 , 128, 265-289	5.5	2
18	The effect of viscosity, friction, and sonication on the morphology and metabolite production from <i>Aspergillus terreus</i> ATCC 20542. <i>Bioprocess and Biosystems Engineering</i> , 2017 , 40, 1753-1761	3.7	2

17	Highly integrated post-combustion carbon capture process in a coal-fired power plant with solar repowering. <i>International Journal of Energy Research</i> , 2015 , 39, n/a-n/a	4.5	2
16	Kinetic modelling for thermal decomposition of agricultural residues at different heating rates. <i>Biomass Conversion and Biorefinery</i> ,1	2.3	2
15	An intelligent platform for evaluating investment in low-emissions technology for clean power production under ETS policy. <i>Journal of Cleaner Production</i> , 2021 , 317, 128362	10.3	2
14	A novel design protocol for solar-powered carbon capture. <i>Thermal Science and Engineering Progress</i> , 2021 , 26, 101059	3.6	2
13	Efficient energy management of CO ₂ capture plant using control-based optimization approach under plant and market uncertainties. <i>Journal of Process Control</i> , 2019 , 74, 2-12	3.9	1
12	Learning dynamics and control in a virtual world 2010 ,		1
11	Computational investigation of particle penetration and deposition pattern in a realistic respiratory tract model from different types of dry powder inhalers. <i>International Journal of Pharmaceutics</i> , 2021 , 612, 121293	6.5	1
10	Process control strategies for solar-powered carbon capture under transient solar conditions. <i>Energy</i> , 2021 , 239, 122382	7.9	1
9	Agile control of CO ₂ capture technology for maximum net operating revenue. <i>IFAC-PapersOnLine</i> , 2016 , 49, 332-335	0.7	1
8	Binding of DNA origami to lipids: maximizing yield and switching via strand displacement. <i>Nucleic Acids Research</i> , 2021 , 49, 10835-10850	20.1	1
7	A CFD study of a direct solar-driven desorption process for carbon capture under transient conditions. <i>Sustainable Energy Technologies and Assessments</i> , 2021 , 47, 101516	4.7	1
6	Increasing Lovastatin Production by Re-routing the Precursors Flow of <i>Aspergillus terreus</i> via Metabolic Engineering. <i>Molecular Biotechnology</i> , 2021 , 1	3	0
5	Solar-powered PCC: An upfront levy for sustainable carbon capture. <i>International Journal of Greenhouse Gas Control</i> , 2022 , 115, 103611	4.2	0
4	Influence of particle size and operating parameters on virus ultrafiltration efficiency. <i>Water Science and Technology: Water Supply</i> , 2011 , 11, 31-38	1.4	
3	Modeling of Crystallization Processes239-285		
2	Off-line optimisation and control of carbon capture operations. <i>Computer Aided Chemical Engineering</i> , 2016 , 38, 1183-1188	0.6	
1	Modeling of Crystallization Processes239-285		