

Mohamed S Alshehhi

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2027872/publications.pdf>

Version: 2024-02-01

40
papers

628
citations

758635

12
h-index

610482

24
g-index

40
all docs

40
docs citations

40
times ranked

480
citing authors

#	ARTICLE	IF	CITATIONS
1	Volume of fluid-based numerical modeling of condensation heat transfer and fluid flow characteristics in microchannels. <i>International Journal of Heat and Mass Transfer</i> , 2013, 65, 62-72.	2.5	137
2	Hydrodynamics and mass transfer performance of a microreactor for enhanced gas separation processes. <i>Chemical Engineering Journal</i> , 2015, 266, 258-270.	6.6	82
3	Fluid flow and mass transfer characteristics of enhanced CO ₂ capture in a minichannel reactor. <i>Applied Energy</i> , 2014, 119, 43-56.	5.1	78
4	Process intensification characteristics of a microreactor absorber for enhanced CO ₂ capture. <i>Applied Energy</i> , 2016, 162, 416-427.	5.1	43
5	Droplet size and velocity characteristics of water-air impinging jet atomizer. <i>International Journal of Multiphase Flow</i> , 2017, 94, 31-43.	1.6	41
6	Review of black powder in gas pipelines – An industrial perspective. <i>Journal of Natural Gas Science and Engineering</i> , 2015, 25, 66-76.	2.1	37
7	Prediction of Black Powder distribution in junctions using the Discrete Phase Model. <i>Powder Technology</i> , 2015, 286, 202-211.	2.1	22
8	Characterization and preliminary root cause identification of black powder content in a gas transmission network – A case study. <i>Journal of Natural Gas Science and Engineering</i> , 2015, 27, 769-775.	2.1	17
9	Feasibility and Basic Design of Solar Integrated Absorption Refrigeration for an Industry. <i>Energy Procedia</i> , 2015, 75, 508-513.	1.8	17
10	Atomization of impinging opposed water jets interacting with an air jet. <i>Experimental Thermal and Fluid Science</i> , 2018, 93, 11-22.	1.5	15
11	A One-D approach for modeling transport and deposition of Black Powder particles in gas network. <i>Journal of Natural Gas Science and Engineering</i> , 2016, 28, 241-253.	2.1	14
12	Experimental flow characterization of sand particles for pneumatic transport in horizontal circular pipes. <i>Powder Technology</i> , 2016, 292, 158-168.	2.1	13
13	LES study of the combined effects of groups of vortices generated by a pulsating turbulent plane jet impinging on a semi-cylinder. <i>Applied Thermal Engineering</i> , 2017, 114, 948-960.	3.0	13
14	Parametric Performance Analysis of an Electrostatic Wire-Cylinder Aerosol Separator in Laminar Flow Using a Numerical Modeling Approach. <i>Separation Science and Technology</i> , 2010, 45, 299-309.	1.3	11
15	Flow and heat transfer of FENE-P fluids in ducts of various shapes: Effect of Newtonian solvent contribution. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2014, 207, 7-20.	1.0	11
16	CFD prediction of Black Powder particles' deposition in vertical and horizontal gas pipelines. <i>Journal of Petroleum Science and Engineering</i> , 2017, 149, 822-833.	2.1	11
17	The interaction of confined swirling flow with a conical bluff body: Numerical simulation. <i>Chemical Engineering Research and Design</i> , 2018, 136, 207-218.	2.7	11
18	Spray characteristics of free air-on-water impinging jets. <i>International Journal of Multiphase Flow</i> , 2018, 100, 86-103.	1.6	9

#	ARTICLE	IF	CITATIONS
19	Field demonstration of a microwave black powder detection device in gas transmission pipelines. Journal of Natural Gas Science and Engineering, 2020, 73, 103058.	2.1	9
20	Economic assessment of carbon capture by minichannel absorbers. AIChE Journal, 2018, 64, 620-631.	1.8	7
21	Experimental Investigation of Enhanced Absorption of Carbon Dioxide in Diethanolamine in a Microreactor. , 2013, , .		5
22	Enhanced Carbon Capture in a Multiport Microscale Absorber. , 2013, , .		4
23	Effects of fluid flow split on black powder distribution in pipe junctions. Advanced Powder Technology, 2016, 27, 42-52.	2.0	4
24	Enhancement of CO ₂ Absorption in Aqueous Diethanolamine Amine Using Microchannel Contactors. , 2012, , .		3
25	Experimental Investigation of Advanced Microscale Reactors for Enhanced Carbon Capture and Natural Gas Sweetening Applications. , 2013, , .		3
26	Numerical simulation of FENE-P viscoelastic fluids flow and heat transfer in grooved channel with rectangular cavities. Korea Australia Rheology Journal, 2017, 29, 195-205.	0.7	3
27	Numerical Analysis of Condensation of R134a in a Single Microchannel. , 2012, , .		2
28	Study of CO ₂ Absorption Into Aqueous Diethanolamine (DEA) Using Microchannel Reactors. , 2014, , .		2
29	Numerical Simulation of Solid-Phase Split at Junctions in Particle Laden Pipe Flow. , 2014, , .		1
30	Flow and heat transfer of a Giesekus fluid in plane and 3D ducts. Heat Transfer - Asian Research, 2017, 46, 1380-1398.	2.8	1
31	Characterization of Black Powder Found in Sales Gas Pipelines. , 2017, , .		1
32	Combined effects of groups of vortices generated by a pulsating turbulent plane jet impinging on a semi-cylinder: Effects of the forcing frequency. International Journal of Thermal Sciences, 2018, 133, 273-283.	2.6	1
33	Experimental Characterization of EHD Flow in an Electrostatic Air-Oil Droplets Separator Using Particle Image Velocimetry. , 2010, , .		0
34	Experimental Investigation of EHD Flow Regimes Map in an Electrostatic Air-Oil Droplets Separator. , 2011, , .		0
35	Large Eddy Simulation of Forced and Unforced Plane Jets Impinging on a Convex Surface. , 2014, , .		0
36	Experimental Analysis for Wire-Cylinder Electrostatic Precipitator. , 2017, , .		0

#	ARTICLE	IF	CITATIONS
37	RANS Modelling of a Swirling Flow Interacting With a Conical Bluff Body. , 2018, , .		0
38	Experiments and Large Eddy Simulation of Swirling Flow in a Pipe. , 2018, , .		0
39	Experimental Investigation of the Electric Field and the Electrohydrodynamic (EHD) Flow in Electrostatic Separator. Jixie Gongcheng Xuebao/Chinese Journal of Mechanical Engineering, 2011, 47, 179.	0.7	0
40	Heat-Transfer Analysis of Visco-Elastic Giesekus Fluid in a Duct Between Parallel Plates and in a Straight Pipe of a Circular Cross-Section. , 2015, , .		0