

Abdelsalam Al-Sarkhi

List of Publications by Year in descending order

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105
papers

2,200
citations

201575

27
h-index

265120

42
g-index

105
all docs

105
docs citations

105
times ranked

1249
citing authors

#	ARTICLE	IF	CITATIONS
1	Efficiency of a Miller engine. <i>Applied Energy</i> , 2006, 83, 343-351.	5.1	89
2	EFFICIENCY OF MILLER ENGINE AT MAXIMUM POWER DENSITY. <i>International Communications in Heat and Mass Transfer</i> , 2002, 29, 1159-1167.	2.9	82
3	Flow and mass transfer downstream of an orifice under flow accelerated corrosion conditions. <i>Nuclear Engineering and Design</i> , 2012, 252, 52-67.	0.8	75
4	Effect of drag reducing polymers on oil-water flow in a horizontal pipe. <i>International Journal of Multiphase Flow</i> , 2009, 35, 516-524.	1.6	74
5	Thermodynamic modeling of spark-ignition engine: Effect of temperature dependent specific heats. <i>International Communications in Heat and Mass Transfer</i> , 2006, 33, 1264-1272.	2.9	72
6	Effect of drag-reducing polymers on annular gas-liquid flow in a horizontal pipe. <i>International Journal of Multiphase Flow</i> , 2001, 27, 1151-1162.	1.6	71
7	Artificial neural network application for multiphase flow patterns detection: A new approach. <i>Journal of Petroleum Science and Engineering</i> , 2016, 145, 548-564.	2.1	70
8	Drag reduction with polymers in gas-liquid/liquid-liquid flows in pipes: A literature review. <i>Journal of Natural Gas Science and Engineering</i> , 2010, 2, 41-48.	2.1	68
9	Effect of pipe diameter on the drop size in a horizontal annular gas-liquid flow. <i>International Journal of Multiphase Flow</i> , 2002, 28, 1617-1629.	1.6	59
10	Water Droplet Dynamics on a Hydrophobic Surface in Relation to the Self-Cleaning of Environmental Dust. <i>Scientific Reports</i> , 2018, 8, 2984.	1.6	59
11	Performance evaluation of irreversible Miller engine under various specific heat models. <i>International Communications in Heat and Mass Transfer</i> , 2007, 34, 897-906.	2.9	58
12	Inclination effects on wave characteristics in annular gas-liquid flows. <i>AIChE Journal</i> , 2012, 58, 1018-1029.	1.8	56
13	Effect of drag-reducing polymers on pseudo-slugs interfacial drag and transition to slug flow. <i>International Journal of Multiphase Flow</i> , 2002, 28, 1911-1927.	1.6	49
14	Effects of friction and temperature-dependent specific-heat of the working fluid on the performance of a Diesel-engine. <i>Applied Energy</i> , 2006, 83, 153-165.	5.1	46
15	Thermodynamic analysis of spark-ignition engine using a gas mixture model for the working fluid. <i>International Journal of Energy Research</i> , 2007, 31, 1031-1046.	2.2	45
16	Effect of water salinity on surfactant-stabilized water-oil emulsions flow characteristics. <i>Experimental Thermal and Fluid Science</i> , 2015, 64, 54-61.	1.5	44
17	Drift-Velocity Closure Relationships for Slug Two-Phase High-Viscosity Oil Flow in Pipes. <i>SPE Journal</i> , 2012, 17, 593-601.	1.7	41
18	Modeling of droplet entrainment in co-current annular two-phase flow: A new approach. <i>International Journal of Multiphase Flow</i> , 2012, 39, 21-28.	1.6	39

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19	Effect of Drag Reducing Polymers on Two-Phase Gas-Liquid Flows in a Horizontal Pipe. Chemical Engineering Research and Design, 2004, 82, 1583-1588.	2.7	38
20	Effect of Pipe Diameter on the Performance of Drag-Reducing Polymers in Annular Gas-Liquid Flows. Chemical Engineering Research and Design, 2001, 79, 402-408.	2.7	37
21	A novel heat exchanger design procedure for photovoltaic panel cooling application: An analytical and experimental evaluation. Applied Energy, 2019, 239, 41-56.	5.1	37
22	Flow characteristics of surfactant stabilized water-in-oil emulsions. Chemical Engineering Research and Design, 2014, 92, 405-412.	2.7	32
23	Characteristics of forced convection heat transfer in vertical internally finned tube. International Communications in Heat and Mass Transfer, 2005, 32, 557-564.	2.9	31
24	Modeling of a geothermal standing column well. International Journal of Energy Research, 2008, 32, 306-317.	2.2	30
25	Effect of drag reducing polymers on water holdup in an oil-water horizontal flow. International Journal of Multiphase Flow, 2012, 44, 29-33.	1.6	30
26	Do huge waves exist in horizontal gas-liquid pipe flow?. International Journal of Multiphase Flow, 2017, 96, 1-23.	1.6	30
27	Medium-range planning economics of future electrical-power generation options. Energy Policy, 2004, 32, 357-366.	4.2	28
28	Liquid Entrainment in Annular Gas/Liquid Flow in Inclined Pipes. SPE Journal, 2012, 17, 617-630.	1.7	28
29	Heat Transfer and Fluid Flow Characteristics of Separated Flows Encountered in a Backward-Facing Step Under the Effect of Suction and Blowing. Journal of Heat Transfer, 2007, 129, 1517-1528.	1.2	27
30	Experimental investigation of flow accelerated corrosion under two-phase flow conditions. Nuclear Engineering and Design, 2014, 267, 34-43.	0.8	27
31	Effect of drag reducing polymer on air-water annular flow in an inclined pipe. International Journal of Multiphase Flow, 2006, 32, 926-934.	1.6	26
32	Performance evaluation of standing column well for potential application of ground source heat pump in Jordan. Energy Conversion and Management, 2008, 49, 863-872.	4.4	26
33	Experimental Study on the Flow Regimes and Pressure Gradients of Air-Oil-Water Three-Phase Flow in Horizontal Pipes. Scientific World Journal, The, 2014, 2014, 1-11.	0.8	26
34	Performance analysis of air-standard Diesel cycle using an alternative irreversible heat transfer approach. Energy Conversion and Management, 2008, 49, 3301-3304.	4.4	25
35	Effect of Piston Friction on the Performance of SI Engine: A New Thermodynamic Approach. Journal of Engineering for Gas Turbines and Power, 2008, 130, .	0.5	25
36	Pressure drop reduction of stable water-in-oil emulsions using organoclays. Applied Clay Science, 2014, 95, 303-309.	2.6	25

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37	Wave characteristics in gas-oil two phase flow and large pipe diameter. International Journal of Multiphase Flow, 2014, 63, 93-104.	1.6	23
38	Pressure drop and flow pattern of oil-water flow for low viscosity oils: Role of mixture viscosity. International Journal of Multiphase Flow, 2015, 73, 90-96.	1.6	23
39	Performance of a spark ignition engine under the effect of friction using a gas mixture model. Journal of the Energy Institute, 2009, 82, 197-205.	2.7	22
40	Modeling of oil-water flow using energy minimization concept. International Journal of Multiphase Flow, 2011, 37, 326-335.	1.6	21
41	Energy analysis of Jordan's commercial sector. Energy Policy, 2003, 31, 887-894.	4.2	20
42	Effect of mixing on frictional loss reduction by drag reducing polymer in annular horizontal two-phase flows. International Journal of Multiphase Flow, 2012, 39, 186-192.	1.6	20
43	Friction factor correlations for gas-liquid/liquid-liquid flows with drag-reducing polymers in horizontal pipes. International Journal of Multiphase Flow, 2011, 37, 501-506.	1.6	18
44	Effect of drag reducing polymers on surfactant-stabilized water-oil emulsions flow. Experimental Thermal and Fluid Science, 2013, 51, 319-331.	1.5	18
45	New dimensionless number for gas-liquid flow in pipes. International Journal of Multiphase Flow, 2016, 81, 15-19.	1.6	18
46	CFD modeling of two-phase annular flow toward the onset of liquid film reversal in a vertical pipe. Journal of Petroleum Science and Engineering, 2019, 175, 755-774.	2.1	18
47	NUMERICAL INVESTIGATION OF SHROUDED FIN ARRAY UNDER COMBINED FREE AND FORCED CONVECTION. International Communications in Heat and Mass Transfer, 2003, 30, 435-444.	2.9	17
48	Liquid Entrainment in Annular Gas/Liquid Flow in Inclined Pipes. , 2010, , .		17
49	Dimensionless oil-water stratified to non-stratified flow pattern transition. Journal of Petroleum Science and Engineering, 2017, 151, 284-291.	2.1	17
50	Current status of CFD modeling of liquid loading phenomena in gas wells: a literature review. Journal of Petroleum Exploration and Production, 2019, 9, 1397-1411.	1.2	17
51	Characterization of Oil Water Flows in Inclined Pipes. , 2008, , .		16
52	Vertical upward and downward churn flow: Similarities and differences. Journal of Natural Gas Science and Engineering, 2020, 73, 103080.	2.1	14
53	Comparison between variable and constant height shrouded fin array subjected to forced convection heat transfer. International Communications in Heat and Mass Transfer, 2005, 32, 548-556.	2.9	13
54	A new dimensionless number for solid particle erosion in natural gas elbows. Wear, 2017, 390-391, 80-83.	1.5	13

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55	Power-Law Correlation for Two-Phase Pressure Drop of Gas/Liquid Flows in Horizontal Pipelines. SPE Projects, Facilities and Construction, 2010, 5, 176-182.	0.2	11
56	Pressure Drop Reduction of Stable Emulsions: Role of Aqueous Phase Salinity. , 2013, , .		11
57	Positive frictional pressure gradient in vertical gas-high viscosity oil slug flow. International Journal of Heat and Fluid Flow, 2016, 59, 50-61.	1.1	11
58	An Experimental Study on the Performance of Drag-Reducing Polymers in Single- and Multiphase Horizontal Flow Using Particle Image Velocimetry. Journal of Energy Resources Technology, Transactions of the ASME, 2018, 140, .	1.4	11
59	Experimental Investigation of the Vertical Upward Single- and Two-Phase Flow Pressure Drops Through Gate and Ball Valves. Journal of Fluids Engineering, Transactions of the ASME, 2020, 142, .	0.8	11
60	A Radio Frequency Sensor Array for Dielectric Constant Estimation of Multiphase Oil Flow in Pipelines. IEEE Sensors Journal, 2017, 17, 5900-5907.	2.4	10
61	Liquid droplet entrainment in two-phase oil-gas low-liquid-loading flow in horizontal pipes at high pressure. International Journal of Multiphase Flow, 2018, 99, 383-396.	1.6	10
62	VELOCITY DISTRIBUTION EFFECTS IN AIR FILTER TESTING. Particulate Science and Technology, 2001, 19, 1-21.	1.1	10
63	Optimization Technique for Design of Automotive Air Filter Housings with Improved Fluid Dynamic Performance and Filtration. Particulate Science and Technology, 2004, 22, 235-252.	1.1	9
64	Upscaling modeling using dimensional analysis in gas-liquid annular and stratified flows. Journal of Petroleum Science and Engineering, 2016, 137, 240-249.	2.1	9
65	Effects of High Oil Viscosity on Drift Velocity for Upward Inclined Pipes. , 2008, , .		8
66	Study of oil-soluble and water-soluble drag reducing polymers in multiphase flows. Canadian Journal of Chemical Engineering, 2018, 96, 1012-1028.	0.9	8
67	Flow Distribution in U- and Z-Type Manifolds: Experimental and Numerical Investigation. Arabian Journal for Science and Engineering, 2020, 45, 6005-6020.	1.7	8
68	Empirical Modelization of Intermittent Gas/Liquid Flow Hydrodynamic Parameters: The Importance of Distinguishing between Plug and Slug Flows. SPE Production and Operations, 2021, 36, 703-720.	0.4	8
69	Prospects of Geothermal Energy Utilization in Jordan. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2008, 30, 1619-1627.	1.2	7
70	Effect of inclination and water cut on venturi pressure drop measurements for oil-water flow experiments. Journal of Petroleum Science and Engineering, 2016, 147, 636-646.	2.1	7
71	Pressure Effects on Pressure Gradient and Liquid Holdup in Two-Phase Oil-Gas Low-Liquid-Loading Flow in Horizontal Pipes. , 2017, , .		7
72	Effect of Nano-Clay Cloisite 20A on water-in-oil stable emulsion flow at different temperatures. Journal of Petroleum Science and Engineering, 2020, 184, 106595.	2.1	7

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73	Analogy between Vertical Upward Cap Bubble and Horizontal Plug Flow. SPE Journal, 2022, 27, 1577-1596.	1.7	7
74	Hydrodynamics model for gas-liquid stratified flow in horizontal pipes using minimum dissipated energy concept. Journal of Petroleum Science and Engineering, 2013, 108, 336-341.	2.1	6
75	Application of the Critical Heat Flux Look-Up Table to Large Diameter Tubes. Science and Technology of Nuclear Installations, 2013, 2013, 1-10.	0.3	6
76	Theoretical study and experimental measurement of the gas liquid two-phase flow through a vertical Venturi meter. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2021, 235, 1567-1584.	1.1	6
77	Interaction of two opposite conical curved wall jets. International Journal of Heat and Fluid Flow, 1996, 17, 397-402.	1.1	5
78	Effect of water salinity on flow pattern and pressure drop in oil-water flow. Journal of Petroleum Science and Engineering, 2015, 128, 145-149.	2.1	5
79	CFD modeling of liquid film reversal of two-phase flow in vertical pipes. Journal of Petroleum Exploration and Production, 2019, 9, 3039-3070.	1.2	5
80	Effects of Vehicular Air Filter Housing Configuration and Filter Resistance on Filter Flow Distributions and Filtration. , 0, , .		4
81	Comment on "Correlation of entrainment for annular flow in horizontal pipes" by Pan, L., Hanratty, T.J., Int. J. Multiphase flow, 28(3), (2002), pp. 385-408. International Journal of Multiphase Flow, 2011, 37, 535-536.	1.6	4
82	MODELING OF THE DROPLET ENTRAINMENT FRACTION IN ADIABATIC GAS-LIQUID ANNULAR FLOW. Multiphase Science and Technology, 2013, 25, 1-23.	0.2	4
83	Pressure Drop Measurements in Venturi Meters of Different Beta Ratios for Oil-Water Flow Experiments. Arabian Journal for Science and Engineering, 2018, 43, 6355-6374.	1.7	4
84	Experimental investigation of oil-water partial separation using a controlled tee junction. Journal of Petroleum Science and Engineering, 2016, 143, 187-198.	2.1	3
85	Energy-Saving UHMW Polymeric Flow Aids: Catalyst and Polymerization Process Development. Catalysts, 2019, 9, 1002.	1.6	3
86	A low complexity RF based sensor array for lung disease detection using inkjet printing. International Journal of RF and Microwave Computer-Aided Engineering, 2019, 29, e21586.	0.8	3
87	Experimental investigation of liquid viscosity's effect on the flow behaviour and void fraction in a small diameter bubble column: How much do we know?. Journal of Petroleum Science and Engineering, 2021, 207, 109182.	2.1	3
88	Investigating the Behaviour of Air-Water Upward and Downward Flows: Are You Seeing What I Am Seeing?. Energies, 2021, 14, 7071.	1.6	3
89	Effects of Drag-Reducing Polymers on Stratified and Slug Gas-Liquid Flows in a Horizontal Pipe. Arabian Journal for Science and Engineering, 2013, 38, 699-704.	1.1	2
90	Effect of Water Fraction on Surfactant-Stabilized Water-in-Oil Emulsion Flow Characteristics. , 2013, , .		2

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91	Pressure Drop Reduction of Stable Water-in-Oil Emulsion Flow: Role of Water Fraction and Pipe Diameter. , 2013, , .		2
92	Pressure Drop Reduction of Stable Water-in-Oil Emulsion Flow: Role of Water Fraction and Pipe Diameter. , 2013, , .		2
93	Controlled In-Line Generation of Stable Oil-Water Emulsions for Enhanced Oil Recovery. Arabian Journal for Science and Engineering, 0, , 1.	1.7	2
94	THE EFFECT OF SUCTION BOUNDARY CONDITION ON THE LOCAL AND AVERAGE NUSSELT NUMBERS FOR A FREE CONVECTION FLOW REGIME. International Communications in Heat and Mass Transfer, 2003, 30, 423-433.	2.9	1
95	A look-up table for two-phase frictional pressure drop multiplier. Nuclear Engineering and Design, 2013, 265, 450-468.	0.8	1
96	Image Adaptive Thresholding for Multiphase Wavy Flow. , 2014, , .		1
97	Low complexity RF sensor for multiphase oil flow estimation in pipelines. , 2017, , .		1
98	A New Correlation for Predicting Solid Particle Erosion Caused by Gas-Sand Flow in Elbows. , 2018, , .		1
99	Oil-Water Two-Phase Flow Redistribution in Horizontal and Near Horizontal Pipelines. International Journal of Fluid Mechanics Research, 2013, 40, 494-511.	0.4	1
100	Comment on: "Droplet entrainment correlation in vertical upward co-current annular two-phase flow", by Pravin Sawant, Mamoru Ishii, Michitsugu Mori, Nuclear Engineering and Design 238 (2008) 1342-1352. Nuclear Engineering and Design, 2011, 241, 3357-3358.	0.8	0
101	Effect of Carbon Nanotube Additive on the Thermal Performance of a Horizontal V-Grooved Heat Pipe. Journal of Nano Research, 0, 26, 83-88.	0.8	0
102	Frictional Factor Correlation for Laminar High-Viscosity Oil/Gas Flow in Horizontal Pipes. SPE Production and Operations, 2020, 35, 604-609.	0.4	0
103	Influence of the 2-phase Flow Models on Prediction of Absorber Tube Performance. Arabian Journal for Science and Engineering, 2021, 46, 2833-2844.	1.7	0
104	Drag reduction in two-phase annular flow of air and water in an inclined pipeline. WIT Transactions on Engineering Sciences, 2006, , .	0.0	0
105	On the development of integrated sensor for multiphase measurements. , 2013, , .		0