

Muhammad Saad Khan

List of Publications by Year in descending order

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58
papers

1,561
citations

331538

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all docs

58
docs citations

58
times ranked

650
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermodynamic effect of ammonium based ionic liquids on CO ₂ hydrates phase boundary. Journal of Molecular Liquids, 2017, 238, 533-539.	2.3	108
2	Influence of tetramethylammonium hydroxide on methane and carbon dioxide gas hydrate phase equilibrium conditions. Fluid Phase Equilibria, 2017, 440, 1-8.	1.4	103
3	The impact of amino acids on methane hydrate phase boundary and formation kinetics. Journal of Chemical Thermodynamics, 2018, 117, 48-53.	1.0	97
4	A perspective on dual purpose gas hydrate and corrosion inhibitors for flow assurance. Journal of Petroleum Science and Engineering, 2019, 183, 106418.	2.1	75
5	Experimental and modelling studies on thermodynamic methane hydrate inhibition in the presence of ionic liquids. Journal of Molecular Liquids, 2018, 249, 886-891.	2.3	68
6	COSMO-RS: An ionic liquid prescreening tool for gas hydrate mitigation. Chinese Journal of Chemical Engineering, 2016, 24, 1619-1624.	1.7	66
7	Effects of Phase Separation Behavior on Morphology and Performance of Polycarbonate Membranes. Membranes, 2017, 7, 21.	1.4	63
8	Impacts of ammonium based ionic liquids alkyl chain on thermodynamic hydrate inhibition for carbon dioxide rich binary gas. Journal of Molecular Liquids, 2018, 261, 283-290.	2.3	62
9	Ammonium hydroxide ILs as dual-functional gas hydrate inhibitors for binary mixed gas (carbon) Tj ETQq1 1 0.784314 rgBT /Overlock 61	2.3	61
10	New methane hydrate phase boundary data in the presence of aqueous amino acids. Fluid Phase Equilibria, 2018, 478, 129-133.	1.4	60
11	Synthesis, characterization, stability and thermal conductivity of multi-walled carbon nanotubes (MWCNTs) and eco-friendly jatropha seed oil based nanofluid: An experimental investigation and modeling approach. Journal of Molecular Liquids, 2019, 293, 111534.	2.3	59
12	Tetramethyl ammonium chloride as dual functional inhibitor for methane and carbon dioxide hydrates. Fuel, 2019, 236, 251-263.	3.4	59
13	Experimental Evaluation of a Novel Thermodynamic Inhibitor for CH ₄ and CO ₂ Hydrates. Procedia Engineering, 2016, 148, 932-940.	1.2	53
14	Application of COSMO-RS in Investigating Ionic Liquid as Thermodynamic Hydrate Inhibitor for Methane Hydrate. Procedia Engineering, 2016, 148, 862-869.	1.2	52
15	Experimental investigation on synthesis, characterization, stability, thermo-physical properties and rheological behavior of MWCNTs-kapok seed oil based nanofluid. Journal of Molecular Liquids, 2019, 277, 812-824.	2.3	49
16	Phase equilibrium measurement and modeling approach to quaternary ammonium salts with and without monoethylene glycol for carbon dioxide hydrates. Journal of Molecular Liquids, 2019, 282, 106-114.	2.3	46
17	Experimental evaluation and thermodynamic modelling of AILs alkyl chain elongation on methane riched gas hydrate system. Fluid Phase Equilibria, 2018, 473, 300-309.	1.4	38
18	Quaternary ammonium salts as thermodynamic hydrate inhibitors in the presence and absence of monoethylene glycol for methane hydrates. Fuel, 2020, 259, 116219.	3.4	37

#	ARTICLE	IF	CITATIONS
19	Combined Inhibition Effect of 1-Ethyl-3-methylimidazolium Chloride + Glycine on Methane Hydrate. Journal of Physics: Conference Series, 2018, 1123, 012060.	0.3	29
20	Measuring solid cuttings transport in Newtonian fluid across horizontal annulus using electrical resistance tomography (ERT). Flow Measurement and Instrumentation, 2021, 77, 101841.	1.0	27
21	Kinetics of Mixed Amino Acid and Ionic Liquid on CO ₂ Hydrate Formation. IOP Conference Series: Materials Science and Engineering, 0, 495, 012073.	0.3	25
22	Thermo-economic and environmental assessment of hybrid vapor compression-absorption refrigeration systems for district cooling. Energy, 2022, 243, 122991.	4.5	24
23	Influence of Ammonium based Compounds for Gas Hydrate Mitigation: A Short Review. Indian Journal of Science and Technology, 2017, 10, 1-6.	0.5	21
24	Dimensionless data-driven model for optimizing hole cleaning efficiency in daily drilling operations. Journal of Natural Gas Science and Engineering, 2021, 96, 104315.	2.1	21
25	The Effect of Acidic Gases and Thermodynamic Inhibitors on the Hydrates Phase Boundary of Synthetic Malaysia Natural Gas. IOP Conference Series: Materials Science and Engineering, 0, 458, 012016.	0.3	19
26	Thermal Evaluation of Diesel/Hydrogen Peroxide Fuel Blend. Chemical Engineering and Technology, 2015, 38, 2170-2180.	0.9	17
27	Experimental Equipment Validation for Methane (CH ₄) and Carbon Dioxide (CO ₂) Hydrates. IOP Conference Series: Materials Science and Engineering, 2018, 344, 012025.	0.3	15
28	Kinetic Assessment of Tetramethyl Ammonium Hydroxide (Ionic Liquid) for Carbon Dioxide, Methane and Binary Mix Gas Hydrates. , 0, , .		15
29	Thermodynamic modelling on methane hydrate equilibrium condition in the presence of electrolyte inhibitor. Materials Today: Proceedings, 2019, 19, 1395-1402.	0.9	15
30	Experimental and comparative theoretical study of thermal conductivity of MWCNTs-kapok seed oil-based nanofluid. International Communications in Heat and Mass Transfer, 2020, 110, 104402.	2.9	14
31	Semi-clathratic impact of tetrabutylammonium hydroxide on the carbon dioxide hydrates. IOP Conference Series: Materials Science and Engineering, 0, 458, 012060.	0.3	13
32	Flow Regime, Slug Frequency and Wavelet Analysis of Air/Newtonian and Air/non-Newtonian Two-Phase Flow. Applied Sciences (Switzerland), 2020, 10, 3272.	1.3	11
33	Kinetic Behavior of Quaternary Ammonium Hydroxides in Mixed Methane and Carbon Dioxide Hydrates. Molecules, 2021, 26, 275.	1.7	11
34	Application of the electric resistance tomographic technique to investigate its efficacy in cuttings transport in horizontal drilling scenarios. Journal of Natural Gas Science and Engineering, 2021, 95, 104119.	2.1	10
35	Influence of Co-solvent Concentration on the Properties of Dope Solution and Performance of Polyethersulfone Membranes. Chemical Engineering and Technology, 2013, 36, 1683-1690.	0.9	9
36	Application of Electrolyte Based Model on Ionic Liquids-Methane Hydrates Phase Boundary. IOP Conference Series: Materials Science and Engineering, 0, 458, 012073.	0.3	9

#	ARTICLE	IF	CITATIONS
37	Assessing the Alkyl Chain Effect of Ammonium Hydroxides Ionic Liquids on the Kinetics of Pure Methane and Carbon Dioxide Hydrates. <i>Energies</i> , 2020, 13, 3272.	1.6	9
38	The solar reduction of graphene oxide on a large scale for high density electrochemical energy storage. <i>Sustainable Energy and Fuels</i> , 2021, 5, 2724-2733.	2.5	9
39	Dual-functional gas hydrate inhibition of tetramethylammonium chloride for carbon dioxide-methane mixed gas systems. <i>Fuel</i> , 2021, 305, 121598.	3.4	9
40	Role of Oxygenated Additives for Diesel Fuel Blend –A Short Review–. <i>Journal of Applied Sciences</i> , 2015, 15, 619-625.	0.1	9
41	Investigation of cutting transport in horizontal/deviated annulus using visualization and pressure drop techniques for two-phase slurry flow. <i>Journal of Natural Gas Science and Engineering</i> , 2022, 100, 104460.	2.1	9
42	Gas Hydrate Inhibitors. <i>Green Energy and Technology</i> , 2020, , 27-46.	0.4	8
43	Thermodynamic Modeling Of Electrolytic Solutions of Ionic Liquids for Gas Hydrates Inhibition Applications. <i>Journal of Advanced Research in Fluid Mechanics and Thermal Sciences</i> , 2021, 81, 110-123.	0.3	7
44	Effect of Acetone on Physical Properties of PES Membrane. <i>Applied Mechanics and Materials</i> , 0, 625, 545-548.	0.2	6
45	A new correlation for performance prediction of small and large capacity single-effect vapor absorption refrigeration systems. , 2022, 1, 100002.		6
46	Evaluation of Tetraethylammonium Chloride on Methane Gas Hydrate Phase Conditions. <i>IOP Conference Series: Materials Science and Engineering</i> , 0, 458, 012071.	0.3	5
47	Influence of H ₂ O ₂ on LPG fuel performance evaluation. , 2014, , .		4
48	Development of pressure gradient correlation for slurry flow using dimensional analysis. <i>Journal of Natural Gas Science and Engineering</i> , 2022, 104, 104660.	2.1	4
49	Physicochemical and FTIR Study of Diesel-Hydrogen Peroxide Fuel Blend. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 344, 012026.	0.3	3
50	Thermal Conductivity of Multiwalled Carbon Nanotubes–Kapok Seed Oil–Based Nanofluid. <i>Chemical Engineering and Technology</i> , 2020, 43, 1638-1647.	0.9	3
51	Evaluation of tetramethylammonium acetate as corrosion suppressor for flow assurance applications. <i>Materials Today: Proceedings</i> , 2021, 47, 1355-1358.	0.9	3
52	Investigating Non-Newtonian Multiphase Cutting Transport in an Extended Reach Well. , 2022, , .		3
53	Citric Acid Future Prospects for Pakistan, a Short Review. <i>Applied Mechanics and Materials</i> , 0, 625, 61-64.	0.2	1
54	Investigation of Flowzan as Non-Newtonian Cutting Transport Fluid in Directional Drilling Applications via Electrical Resistance Tomography Method. , 2021, , .		1

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55	Investigation of Gas-Liquid Flow Using Electrical Resistance Tomography and Wavelet Analysis Techniques for Early Kick Detection. , 2021, , .		1
56	Pre-Screening of Ionic Liquids as Gas Hydrate Inhibitor via Application of COSMO-RS for Methane Hydrate. , 0, , .		0
57	Catalytic Decomposition of 2% Methanol in Methane over Metallic Catalyst by Fixed-Bed Catalytic Reactor. Energies, 2021, 14, 2220.	1.6	0
58	Modified Operating Parameter-Based Iyer Correlation for the Coefficient of Performance (COP) Prediction of Different Fluid Pairs in Double-Effect Vapor Absorption Refrigeration (VAR) Cycles. , 2021, , .		0