

Jianjun Zhu

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.

59
papers

990
citations

20
h-index

29
g-index

66
ext. papers

1,158
ext. citations

3.6
avg, IF

4.67
L-index

#	Paper	IF	Citations
59	Heat transfer and pressure drop of nanofluids containing carbon nanotubes in laminar flows. <i>Experimental Thermal and Fluid Science</i> , 2013 , 44, 716-721	3	139
58	A quantum molecular dynamics simulation of an excess electron in methanol. <i>Journal of Chemical Physics</i> , 1993 , 98, 5679-5693	3.9	53
57	CFD simulation and experimental study of oil viscosity effect on multi-stage electrical submersible pump (ESP) performance. <i>Journal of Petroleum Science and Engineering</i> , 2016 , 146, 735-745	4.4	44
56	Dynamics of reversible electron transfer reactions. <i>Journal of Chemical Physics</i> , 1991 , 95, 3325-3340	3.9	42
55	A Review of Experiments and Modeling of Gas-Liquid Flow in Electrical Submersible Pumps. <i>Energies</i> , 2018 , 11, 180	3.1	40
54	Formation and rupture mechanisms of visco-elastic interfacial films in polymer-stabilized emulsions. <i>Journal of Dispersion Science and Technology</i> , 2019 , 40, 612-626	1.5	40
53	A numerical study on flow patterns inside an electrical submersible pump (ESP) and comparison with visualization experiments. <i>Journal of Petroleum Science and Engineering</i> , 2019 , 173, 339-350	4.4	39
52	Simulation of Proton Transfer Reaction Rates: The Role of Solvent Electronic Polarization. <i>Journal of Physical Chemistry B</i> , 1997 , 101, 7180-7190	3.4	34
51	Experimental study and mechanistic modeling of pressure surging in electrical submersible pump. <i>Journal of Natural Gas Science and Engineering</i> , 2017 , 45, 625-636	4.6	33
50	Experimental and computational studies on the solvation of lithium tetrafluoroborate in dimethyl sulfoxide. <i>Journal of Raman Spectroscopy</i> , 2007 , 38, 865-872	2.3	32
49	Mechanistic modeling and numerical simulation of in-situ gas void fraction inside ESP impeller. <i>Journal of Natural Gas Science and Engineering</i> , 2016 , 36, 144-154	4.6	30
48	Structure of ionic liquids under external electric field: a molecular dynamics simulation. <i>Molecular Simulation</i> , 2012 , 38, 172-178	2	29
47	Numerical Study on Electrical-Submersible-Pump Two-Phase Performance and Bubble-Size Modeling. <i>SPE Production and Operations</i> , 2017 , 32, 267-278	0.6	27
46	Effect of thermal coarsening on the thermal conductivity of nanoporous gold. <i>Journal of Materials Science</i> , 2012 , 47, 5013-5018	4.3	25
45	Reversible electron transfer dynamics in non-Debye solvents. <i>Journal of Chemical Physics</i> , 1992 , 96, 1435-1443	3.4	25
44	An integral equation approximation for the dynamics of reversible electron-transfer reactions. <i>Journal of Chemical Physics</i> , 1993 , 98, 1213-1227	3.9	23
43	Well completion issues for underground gas storage in oil and gas reservoirs in China. <i>Journal of Petroleum Science and Engineering</i> , 2018 , 171, 584-591	4.4	22

42	Solvent dynamical effects on bond-breaking electron transfer reactions. <i>Journal of Chemical Physics</i> , 1994 , 100, 8109-8124	3.9	21
41	Surfactant effect on air/water flow in a multistage electrical submersible pump (ESP). <i>Experimental Thermal and Fluid Science</i> , 2018 , 98, 95-111	3	21
40	Solvent dynamical effects on electron transfer reactions. <i>Journal of Chemical Physics</i> , 1994 , 101, 9966-9984	3.9	20
39	A mean-field theory of a localized excess electron in a polar fluid. <i>Journal of Chemical Physics</i> , 1993 , 99, 5384-5395	3.9	19
38	Unsymmetrical electrolytes with adhesive interactions. <i>Journal of Chemical Physics</i> , 1991 , 94, 3141-3149	3.9	18
37	Cavity functions and association in models for weak electrolytes and sticky hard spheres. <i>Journal of Chemical Physics</i> , 1990 , 92, 7554-7564	3.9	18
36	A mean-field theory of a localized excess electron in a classical fluid. <i>Journal of Chemical Physics</i> , 1993 , 99, 1288-1299	3.9	15
35	Simulation of excited state proton transfer reaction kinetics. <i>Journal of Chemical Physics</i> , 1999 , 110, 9587-9597	3.9	14
34	A Numerical Study on Erosion Model Selection and Effect of Pump Type and Sand Characters in Electrical Submersible Pumps by Sandy Flow. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2019 , 141,	2.6	14
33	On the role of solvent electronic polarization in charge transfer reactions. <i>Journal of Chemical Physics</i> , 1995 , 102, 8398-8413	3.9	13
32	A New Mechanistic Model to Predict Boosting Pressure of Electrical Submersible Pumps ESPs Under High-Viscosity Fluid Flow with Validations by Experimental Data 2019 ,		10
31	CFD Simulation of ESP Performance and Bubble Size Estimation under Gassy Conditions 2014 ,		9
30	An imaginary energy method-based formulation of a quantum rate theory. <i>Journal of Chemical Physics</i> , 1995 , 102, 4123-4130	3.9	9
29	Solvent effects in weak electrolytes. II. Dipolar hard sphere solvent and the sticky electrolyte model with $L=\infty$. <i>Journal of Chemical Physics</i> , 1989 , 91, 505-516	3.9	9
28	Dynamic salt effect on intramolecular charge-transfer reactions. <i>Journal of Chemical Physics</i> , 2005 , 123, 224505	3.9	8
27	Sand Erosion Model Prediction, Selection and Comparison for Electrical Submersible Pump (ESP) Using CFD Method 2018 ,		7
26	Modeling flow pattern transitions in electrical submersible pump under gassy flow conditions. <i>Journal of Petroleum Science and Engineering</i> , 2019 , 180, 471-484	4.4	6
25	Flow pattern recognition inside a rotodynamic multiphase pump via developed entropy production diagnostic model. <i>Journal of Petroleum Science and Engineering</i> , 2020 , 194, 107467	4.4	6

24	Ligand reorganization and activation energies in nonadiabatic electron transfer reactions. <i>Journal of Chemical Physics</i> , 2006 , 125, 164511	3.9	6
23	Comprehensive review of wire arc additive manufacturing: Hardware system, physical process, monitoring, property characterization, application and future prospects. <i>Results in Engineering</i> , 2022 , 13, 100330	3.3	6
22	Experimental Study of Sand Erosion in Multistage Electrical Submersible Pump ESP: Performance Degradation, Wear and Vibration 2019 ,		5
21	A Numerical Study of Turbulence Model and Rebound Model Effect on Erosion Simulations in an Electrical Submersible Pump (ESP) 2019 ,		5
20	On the thermodynamic behaviors and interactions between bubble pairs: A numerical approach. <i>Ultrasonics Sonochemistry</i> , 2021 , 70, 105297	8.9	5
19	A Mechanistic Model to Predict Flow Pattern Transitions in Electrical Submersible Pump under Gassy Flow Condition 2018 ,		5
18	A New Mechanistic Model for Oil-Water Emulsion Rheology and Boosting Pressure Prediction in Electrical Submersible Pumps ESP 2019 ,		4
17	A Transient Plunger Lift Model for Liquid Unloading from Gas Wells 2019 ,		4
16	Efficiency and Critical Velocity Analysis of Gravitational Separator Through CFD Simulation 2017 ,		4
15	Experimental Study on Deteriorated Performance, Vibration, and Geometry Changes of an Electrical Submersible Pump Under Sand Water Flow Condition. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2021 , 143,	2.6	4
14	A New Mechanistic Model To Predict Boosting Pressure of Electrical Submersible Pumps Under High-Viscosity Fluid Flow with Validations by Experimental Data. <i>SPE Journal</i> , 2020 , 25, 744-758	3.1	4
13	Wear and Its Effect on Electrical Submersible Pump ESP Performance Degradation by Sandy Flow: Experiments and Modeling 2019 ,		3
12	An Experimental Study of Surfactant Effect on Gas Tolerance in Electrical Submersible Pump (ESP) 2017 ,		3
11	Solvent dynamics effect in condensed-phase electron-transfer reactions. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 3735-45	3.4	3
10	Electrochemical Determination of Dopamine Using a Mesoporous MnO ₂ /Polypyrrole-Modified Electrode. <i>Nanoscience and Nanotechnology Letters</i> , 2013 , 5, 673-676	0.8	3
9	Mechanistic Modeling of Electrical Submersible Pump ESP Boosting Pressure Under Gassy Flow Conditions and Experimental Validation 2018 ,		3
8	Solvent dynamics and electron transfer reactions. <i>AIP Conference Proceedings</i> , 1994 ,	0	2
7	Performance degradation and wearing of Electrical Submersible Pump (ESP) with gas-liquid-solid flow: Experiments and mechanistic modeling. <i>Journal of Petroleum Science and Engineering</i> , 2021 , 200, 108399	4.4	2

6	Experimental studies on overall property of thermoelectric modules with sandwiched structures. <i>Science Bulletin</i> , 2014 , 59, 571-576		1
5	Mechanistic modeling of gas effect on Multi-stage Electrical submersible pump (ESP) performance with experimental validation. <i>Chemical Engineering Science</i> , 2021 , 117288	4.4	1
4	Experiments and mechanistic modeling of viscosity effect on a multistage ESP performance under viscous fluid flow. <i>Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy</i> , 095765092110149	1.6	1
3	Experimental studies of unsteady cavitation at the tongue of a pump-turbine in pump mode. <i>Renewable Energy</i> , 2021 , 177, 1265-1281	8.1	1
2	Effect of cavitation and free-gas entrainment on the hydraulic performance of a centrifugal pump. <i>Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy</i> , 2021 , 235, 440-453	1.6	0
1	A New Mechanistic Model for Emulsion Rheology and Boosting Pressure Prediction in Electrical Submersible Pumps (ESPs) under Oil-Water Two-Phase Flow. <i>SPE Journal</i> , 2021 , 26, 667-684	3.1	0