

Yan Yang

List of Publications by Year in descending order

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54
papers

1,713
citations

236612

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276539

41
g-index

56
all docs

56
docs citations

56
times ranked

497
citing authors

#	ARTICLE	IF	CITATIONS
1	CFD modeling of condensation process of water vapor in supersonic flows. Applied Thermal Engineering, 2017, 115, 1357-1362.	3.0	96
2	An efficient approach to separate CO2 using supersonic flows for carbon capture and storage. Applied Energy, 2019, 238, 311-319.	5.1	92
3	Performance of supersonic steam ejectors considering the nonequilibrium condensation phenomenon for efficient energy utilisation. Applied Energy, 2019, 242, 157-167.	5.1	92
4	CFD modeling of particle behavior in supersonic flows with strong swirls for gas separation. Separation and Purification Technology, 2017, 174, 22-28.	3.9	80
5	Entropy generation and exergy destruction in condensing steam flow through turbine blade with surface roughness. Energy Conversion and Management, 2019, 196, 1089-1104.	4.4	71
6	Numerical simulation of natural gas flows in diffusers for supersonic separators. Energy, 2012, 37, 195-200.	4.5	70
7	Evaluation of natural gas dehydration in supersonic swirling separators applying the Discrete Particle Method. Advanced Powder Technology, 2012, 23, 228-233.	2.0	69
8	Theoretical and numerical analysis on pressure recovery of supersonic separators for natural gas dehydration. Applied Energy, 2014, 132, 248-253.	5.1	66
9	Supersonic swirling characteristics of natural gas in convergent-divergent nozzles. Petroleum Science, 2011, 8, 114-119.	2.4	65
10	Swirling flow of natural gas in supersonic separators. Chemical Engineering and Processing: Process Intensification, 2011, 50, 644-649.	1.8	64
11	Experimental study on stray current corrosion of coated pipeline steel. Journal of Natural Gas Science and Engineering, 2015, 27, 1555-1561.	2.1	64
12	Effect of swirling device on flow behavior in a supersonic separator for natural gas dehydration. Separation and Purification Technology, 2016, 168, 68-73.	3.9	57
13	Non-equilibrium condensation of water vapour in supersonic flows with shock waves. International Journal of Heat and Mass Transfer, 2020, 149, 119109.	2.5	53
14	Optimisation study of a supersonic separator considering nonequilibrium condensation behaviour. Energy Conversion and Management, 2020, 222, 113210.	4.4	50
15	Numerical simulation of real gas flows in natural gas supersonic separation processing. Journal of Natural Gas Science and Engineering, 2014, 21, 829-836.	2.1	45
16	Swirling Effects on the Performance of Supersonic Separators for Natural Gas Separation. Chemical Engineering and Technology, 2011, 34, 1575-1580.	0.9	42
17	Performance of steam ejector with nonequilibrium condensation for multi-effect distillation with thermal vapour compression (MED-TVC) seawater desalination system. Desalination, 2020, 489, 114531.	4.0	41
18	Wet steam flow and condensation loss in turbine blade cascades. Applied Thermal Engineering, 2021, 189, 116748.	3.0	41

#	ARTICLE	IF	CITATIONS
19	Optimization of static vanes in a supersonic separator for gas purification. <i>Fuel Processing Technology</i> , 2017, 156, 265-270.	3.7	39
20	Effect of delta wing on the particle flow in a novel gas supersonic separator. <i>Powder Technology</i> , 2016, 304, 261-267.	2.1	38
21	Numerical simulation of nanodroplet generation of water vapour in high-pressure supersonic flows for the potential of clean natural gas dehydration. <i>Energy Conversion and Management</i> , 2021, 231, 113853.	4.4	35
22	Effect of area ratio of the primary nozzle on steam ejector performance considering nonequilibrium condensations. <i>Energy</i> , 2021, 237, 121483.	4.5	35
23	Steam ejector performance considering phase transition for multi-effect distillation with thermal vapour compression (MED-TVC) desalination system. <i>Applied Energy</i> , 2020, 279, 115831.	5.1	31
24	Polydispersed droplet spectrum and exergy analysis in wet steam flows using method of moments. <i>Applied Thermal Engineering</i> , 2021, 182, 116148.	3.0	29
25	An analytical method for Wilson point in nozzle flow with homogeneous nucleating. <i>International Journal of Heat and Mass Transfer</i> , 2014, 73, 586-594.	2.5	27
26	The swirling flow structure in supersonic separators for natural gas dehydration. <i>RSC Advances</i> , 2014, 4, 52967-52972.	1.7	23
27	Thermodynamics analysis of CO ₂ condensation in supersonic flows for the potential of clean offshore natural gas processing. <i>Applied Energy</i> , 2022, 310, 118523.	5.1	23
28	Numerical modeling of droplets injection in the secondary flow of the wet steam ejector in the refrigeration cycle. <i>International Journal of Refrigeration</i> , 2022, 136, 103-113.	1.8	22
29	Prediction of Mass Flow Rate in Supersonic Natural Gas Processing. <i>Oil and Gas Science and Technology</i> , 2015, 70, 1101-1109.	1.4	21
30	Prediction of dehydration performance of supersonic separator based on a multi-fluid model with heterogeneous condensation. <i>Applied Thermal Engineering</i> , 2020, 171, 115074.	3.0	20
31	Energy efficiency and exergy destruction of supersonic steam ejector based on nonequilibrium condensation model. <i>Applied Thermal Engineering</i> , 2021, 189, 116704.	3.0	19
32	Gas-liquid two-phase flow behavior in terrain-inclined pipelines for gathering transport system of wet natural gas. <i>International Journal of Pressure Vessels and Piping</i> , 2018, 162, 52-58.	1.2	18
33	Non-equilibrium condensation process of water vapor in moist air expansion through a sonic nozzle. <i>Flow Measurement and Instrumentation</i> , 2014, 40, 238-246.	1.0	17
34	EFFECTS OF ALTERNATING CURRENT ON XTO STEEL MORPHOLOGY AND ELECTROCHEMICAL BEHAVIOR. <i>Jinshu Xuebao/Acta Metallurgica Sinica</i> , 2013, 49, 43.	0.3	17
35	Effect of Inlet and Outlet Flow Conditions on Natural Gas Parameters in Supersonic Separation Process. <i>PLoS ONE</i> , 2014, 9, e110313.	1.1	16
36	Numerical simulation of supersonic condensation flows using Eulerian-Lagrangian and Eulerian wall film models. <i>Energy</i> , 2022, 258, 124833.	4.5	15

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37	Sand Transport and Deposition Behaviour in Subsea Pipelines for Flow Assurance. <i>Energies</i> , 2019, 12, 4070.	1.6	14
38	Characterization, formation and development of scales on L80 steel tube resulting from seawater injection treatment. <i>Journal of Petroleum Science and Engineering</i> , 2020, 193, 107433.	2.1	13
39	The droplets and film behaviors in supersonic separator by using three-field two-fluid model with heterogenous condensation. <i>International Journal of Heat and Mass Transfer</i> , 2022, 184, 122315.	2.5	13
40	Gas-liquid two-phase flows in double inlet cyclones for natural gas separation. <i>Cogent Engineering</i> , 2017, 4, 1373421.	1.1	12
41	Self-excited oscillation of non-equilibrium condensation in critical flow nozzle. <i>Applied Thermal Engineering</i> , 2017, 122, 515-527.	3.0	11
42	Understanding the formation process of the liquid slug in a hilly-terrain wet natural gas pipeline. <i>Journal of Environmental Chemical Engineering</i> , 2017, 5, 4220-4228.	3.3	8
43	A Novel Dehumidification Strategy to Reduce Liquid Fraction and Condensation Loss in Steam Turbines. <i>Entropy</i> , 2021, 23, 1225.	1.1	7
44	Experimental Study on Alternating Current Corrosion of Pipeline Steel in Alkaline Environment. <i>International Journal of Electrochemical Science</i> , 2016, 11, 7150-7162.	0.5	6
45	Characteristics of scales and their impacts on underdeposit corrosion in an oil production well. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2021, 72, 1051-1064.	0.8	6
46	Unsteady non-equilibrium condensation flow of 3-D wet steam stage of steam turbine with roughness using sliding mesh method. <i>International Journal of Thermal Sciences</i> , 2022, 179, 107674.	2.6	6
47	Effects of Operating Parameters on Flow Characteristics of Natural Gas in Supersonic Separators. , 2013, , .		5
48	A visual mass transfer study in the ejector considering phase change for multi-effect distillation with thermal vapour compression (MED-TVC) desalination system. <i>Desalination</i> , 2022, 532, 115722.	4.0	5
49	Double Inlet Cyclone Separators for Natural Gas Dehydration. <i>Applied Mechanics and Materials</i> , 2010, 44-47, 1002-1006.	0.2	1
50	Numerical Modelling of Wet Steam Flows in Turbine Blades. , 2021, , 397-401.		1
51	Effect of Turbulence Models on Steam Condensation in Transonic Flows. , 2021, , 711-715.		1
52	Effectiveness of Cathodic Protection under AC Interference and Determination of the Optimum Protection Potential. , 2011, , .		0
53	Modeling of self-excited oscillation of non-equilibrium condensation in transonic moist air flow. <i>International Journal of Thermal Sciences</i> , 2021, 168, 107040.	2.6	0
54	Numerical modelling of non-equilibrium condensation of carbon dioxide (CO ₂) in a converging-diverging nozzle. <i>AIP Conference Proceedings</i> , 2020, , .	0.3	0