Xi Jiang

List of Publications by Year in descending order

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Version: 2024-02-01

		411340	340414
85	1,866	20	39
papers	citations	h-index	g-index
89	89	89	1856
all docs	docs citations	times ranked	citing authors

#	Article	IF	CITATIONS
1	A molecular simulation study on transport properties of FAMEs in high-pressure conditions. Fuel, 2022, 316, 123356.	3.4	8
2	Understanding the miscibility of polyoxymethylene dimethyl ethers (OMEn) and diesel blend using molecular dynamics simulation. Fuel, 2022, 323, 124348.	3.4	4
3	Experimental investigation of non-premixed and partially premixed methane lifted flames established on a lobed swirl injector. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2021, 235, 835-849.	0.8	3
4	Coupling effects of native H2S and different co-injected impurities on CO2 sequestration in layered saline aquifers. Journal of Natural Gas Science and Engineering, 2021, 88, 103846.	2.1	9
5	Vortex Breakdown Control by the Plasma Swirl Injector. Applied Sciences (Switzerland), 2021, 11, 5537.	1.3	1
6	A molecular investigation on lignin thermochemical conversion and carbonaceous organics deposition induced catalyst deactivation. Applied Energy, 2021, 302, 117557.	5.1	22
7	Design and experimental evaluation of a plasma swirler with helical shaped actuators. Sensors and Actuators A: Physical, 2020, 315, 112250.	2.0	4
8	Parametric and model uncertainties induced by reduced order chemical mechanisms for biogas combustion. Chemical Engineering Science, 2020, 227, 115949.	1.9	10
9	Central recirculation zone induced by the DBD plasma actuation. Scientific Reports, 2020, 10, 13004.	1.6	3
10	Molecular dynamics simulation of soot formation during diesel combustion with oxygenated fuel addition. Physical Chemistry Chemical Physics, 2020, 22, 20829-20836.	1.3	23
11	Numerical investigation of convective mixing in impure CO2 geological storage into deep saline aquifers. International Journal of Greenhouse Gas Control, 2020, 96, 103015.	2.3	18
12	Datasets for high hydrogen content syngas fuel variability effect on combustion physicochemical properties. Data in Brief, 2020, 29, 105116.	0.5	0
13	Prediction of transport properties of fuels in supercritical conditions by molecular dynamics simulation. Energy Procedia, 2019, 158, 1700-1705.	1.8	8
14	Uncertainty quantification of fuel variability effects on high hydrogen content syngas combustion. Fuel, 2019, 257, 116111.	3.4	19
15	Optimisation of low energy cooling through phase variation between adjacent piezoelectric fan blades. International Journal of Heat and Mass Transfer, 2019, 139, 362-372.	2.5	15
16	An experimental investigation on the electrospray characteristics in a meso-scale system at different modes. Experimental Thermal and Fluid Science, 2019, 106, 130-137.	1.5	27
17	Effects of electrical parameters on the performance of a plasma swirler. Physica Scripta, 2019, 94, 095601.	1.2	4
18	Geometric optimisation of piezoelectric fan arrays for low energy cooling. International Journal of Heat and Mass Transfer, 2019, 137, 52-63.	2.5	9

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19	Transport property prediction and inhomogeneity analysis of supercritical n-Dodecane by molecular dynamics simulation. Fuel, 2019, 244, 48-60.	3.4	25
20	Combustion control using a lobed swirl injector and a plasma swirler. Applied Thermal Engineering, 2019, 152, 92-102.	3.0	15
21	An investigation of fuel variability effect on bio-syngas combustion using uncertainty quantification. Fuel, 2018, 220, 283-295.	3.4	17
22	A review of piezoelectric fans for low energy cooling of power electronics. Applied Energy, 2018, 215, 321-337.	5.1	47
23	Electro-spraying and catalytic combustion characteristics of ethanol in meso-scale combustors with steel and platinum meshes. Energy Conversion and Management, 2018, 164, 410-416.	4.4	30
24	Investigation of dilution effects on partially premixed swirling syngas flames using a LES-LEM approach. Journal of the Energy Institute, 2018, 91, 902-915.	2.7	14
25	Effects of N2 and H2S binary impurities on CO2 geological storage in stratified formation – A sensitivity study. Applied Energy, 2018, 229, 482-492.	5.1	20
26	An assessment of fuel variability effect on biogas-hydrogen combustion using uncertainty quantification. International Journal of Hydrogen Energy, 2018, 43, 12499-12515.	3.8	26
27	Flame lift-off height control by a combined vane-plasma swirler. Journal Physics D: Applied Physics, 2018, 51, 345205.	1.3	5
28	A case study of using cosmic ray muons to monitor supercritical CO2 migration in geological formations. Applied Energy, 2017, 185, 1450-1458.	5.1	3
29	Large-eddy simulation of flow and combustion dynamics in a lean partially premixed swirling combustor. Journal of the Energy Institute, 2017, 90, 120-131.	2.7	15
30	Numerical investigation of the partitioning phenomenon of carbon dioxide and multiple impurities in deep saline aquifers. Applied Energy, 2017, 185, 1411-1423.	5.1	15
31	Jet flow and premixed jet flame control by plasma swirler. Physics Letters, Section A: General, Atomic and Solid State Physics, 2017, 381, 1158-1162.	0.9	6
32	A Large-Eddy Simulation–Linear-Eddy Model Study of Preferential Diffusion Processes in a Partially Premixed Swirling Combustor With Synthesis Gases. Journal of Engineering for Gas Turbines and Power, 2017, 139, .	0.5	3
33	Fast Response, Highly Sensitive and Selective Mixed-Potential H ₂ Sensor Based on (La,) Tj ETQq1 1 17218-17225.	0.784314 4.0	rgBT /Overlo 41
34	Analysis of the Chemical Structure in a Nonpremixed H 2 /N 2 Flame Using Large Eddy Simulation with Detailed Chemistry. Energy Procedia, 2017, 105, 1948-1952.	1.8	0
35	Numerical Investigation of the Effects of Impurity on CO 2 Sequestration in Stratified Formation. Energy Procedia, 2017, 105, 4248-4253.	1.8	1
36	A numerical study of the impurity effects on CO 2 geological storage in layered formation. Applied Energy, 2017, 199, 107-120.	5.1	20

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37	Effects of Fuel Composition on Biogas Combustion in Premixed Laminar Flames. Energy Procedia, 2017, 105, 1058-1062.	1.8	18
38	Investigation of the effect of DC electric field on a small ethanol diffusion flame. Fuel, 2017, 188, 621-627.	3.4	35
39	Simulation of electrical abuse of high-power lithium-ion batteries. Energy Procedia, 2017, 142, 3468-3473.	1.8	1
40	A study of small-scale CO 2 accidental release in near-field from a pressurized pipeline. Energy Procedia, 2017, 142, 3234-3239.	1.8	3
41	A LES-LEM Study of Preferential Diffusion Processes in a Partially Premixed Swirling Combustor With Synthesis Gases., 2016,,.		3
42	A study of using cosmic-ray muon radiography to detect CO2 leakage from a primary storage into geological formations. Environmental Earth Sciences, 2016, 75, 1.	1.3	0
43	A coupled thermal and electrochemical study of lithium-ion battery cooled by paraffin/porous-graphite-matrix composite. Journal of Power Sources, 2016, 315, 127-139.	4.0	40
44	The effects of chemical kinetic mechanisms on large eddy simulation (LES) of a nonpremixed hydrogen jet flame. International Journal of Hydrogen Energy, 2016, 41, 11427-11440.	3.8	11
45	A comparative study of instabilities in forced reacting plumes of nonpremixed flames. Journal of the Energy Institute, 2016, 89, 456-467.	2.7	7
46	A modelling study of the multiphase leakage flow from pressurised CO 2 pipeline. Journal of Hazardous Materials, 2016, 306, 286-294.	6.5	34
47	An experimental investigation of supercritical CO 2 accidental release from a pressurized pipeline. Journal of Supercritical Fluids, 2016, 107, 298-306.	1.6	30
48	An Investigation of Chromatographic Partitioning of CO2 and Multiple Impurities in Geological CO2 Sequestration. Energy Procedia, 2015, 75, 2240-2245.	1.8	2
49	Large-eddy Simulation of Flow and Combustion Dynamics in a Lean Partially-premixed Swirling Combustor. Energy Procedia, 2015, 66, 333-336.	1.8	12
50	A computational study of preferential diffusion and scalar transport in nonpremixed hydrogen-air flames. International Journal of Hydrogen Energy, 2015, 40, 15709-15722.	3.8	18
51	Experimental Investigation of CO2 Accidental Release from a Pressurised Pipeline. Energy Procedia, 2015, 75, 2221-2226.	1.8	6
52	Numerical analyses of the effects of nitrogen on the dissolution trapping mechanism of carbon dioxide geological storage. Computers and Fluids, 2015, 114, 1-11.	1.3	22
53	Numerical simulations of pressure buildup and salt precipitation during carbon dioxide storage in saline aquifers. Computers and Fluids, 2015, 121, 92-101.	1.3	5
54	An investigation of lithium-ion battery thermal management using paraffin/porous-graphite-matrix composite. Journal of Power Sources, 2015, 278, 50-68.	4.0	160

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55	The leakage behavior of supercritical CO2 flow in an experimental pipeline system. Applied Energy, 2014, 130, 574-580.	5.1	59
56	Numerical analyses of the solubility trapping of CO2 storage in geological formations. Applied Energy, 2014, 130, 581-591.	5.1	32
57	A numerical study of the impurity effects of nitrogen and sulfur dioxide on the solubility trapping of carbon dioxide geological storage. Applied Energy, 2014, 128, 60-74.	5.1	35
58	A theoretical and computational study of lithium-ion battery thermal management for electric vehicles using heat pipes. Journal of Power Sources, 2014, 257, 344-355.	4.0	216
59	The flow and heat transfer characteristics of supercritical CO2 leakage from a pipeline. Energy, 2014, 71, 665-672.	4.5	41
60	An experimental study on the leakage process of high pressure CO ₂ from a pipeline transport system., 2014, 4, 777-784.		5
61	The Pressure Buildup and Salt Precipitation during CO 2 Storage in Closed Saline Aquifers. Communications in Computer and Information Science, 2014, , 66-77.	0.4	0
62	Modelling and monitoring of geological carbon storage: A perspective on cross-validation. Applied Energy, 2013, 112, 784-792.	5.1	19
63	Large-eddy simulation of mixing and combustion in a premixed swirling combustor with synthesis gases. Computers and Fluids, 2013, 88, 702-714.	1.3	15
64	Capturing CO2 in flue gas from fossil fuel-fired power plants using dry regenerable alkali metal-based sorbent. Progress in Energy and Combustion Science, 2013, 39, 515-534.	15.8	179
65	Upscaling and its application in numerical simulation of longâ€term CO ₂ storage. , 2012, 2, 408-418.		29
66	Swirling and Impinging Effects in an Annular Nonpremixed Jet Flame. Flow, Turbulence and Combustion, 2011, 86, 63-88.	1.4	14
67	Large Eddy Simulation of Diesel Fuel Injection and Mixing in a HSDI Engine. Flow, Turbulence and Combustion, 2011, 87, 473-491.	1.4	10
68	A review of physical modelling and numerical simulation of long-term geological storage of CO2. Applied Energy, 2011, 88, 3557-3566.	5.1	139
69	Numerical studies of vortex shedding in forced oscillatory non-premixed flames. IOP Conference Series: Materials Science and Engineering, 2010, 10, 012030.	0.3	1
70	Direct numerical simulation of the near-field dynamics of annular gas-liquid two-phase jets. Physics of Fluids, 2009, 21, 042103.	1.6	8
71	Dynamics of annular gas–liquid two-phase swirling jets. International Journal of Multiphase Flow, 2009, 35, 450-467.	1.6	16
72	Numerical investigation of a perturbed swirling annular two-phase jet. International Journal of Heat and Fluid Flow, 2009, 30, 481-493.	1.1	11

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73	Parallel Direct Numerical Simulation of an Annular Gas–Liquid Two-Phase Jet with Swirl. Springer Optimization and Its Applications, 2009, , 223-236.	0.6	0
74	A numerical study of an annular liquid jet in a compressible gas medium. International Journal of Multiphase Flow, 2008, 34, 393-407.	1.6	11
75	Analytical Equilibrium Swirling Inflow Conditions for Computational Fluid Dynamics. AIAA Journal, 2008, 46, 1015-1019.	1.5	12
76	Direct Numerical Simulation of a Non-Premixed Impinging Jet Flame. Journal of Heat Transfer, 2007, 129, 951-957.	1.2	8
77	Direct Computation of an Annular Liquid Jet. Journal of Algorithms and Computational Technology, 2007, 1, 103-126.	0.4	8
78	Analysis of Controlled Auto-Ignition/HCCI Combustion in a Direct Injection Gasoline Engine with Single and Split Fuel Injections. Combustion Science and Technology, 2007, 180, 176-205.	1.2	15
79	Investigation into Controlled Auto-Ignition Combustion in a GDI Engine with Single and Split Fuel Injections., 2007,,.		11
80	Direct numerical simulation of a liquid sheet in a compressible gas stream in axisymmetric and planar configurations. Theoretical and Computational Fluid Dynamics, 2007, 21, 447-471.	0.9	9
81	A COMPARATIVE RANS/LES STUDY OF TRANSIENT GAS JETS AND SPRAYS UNDER DIESEL CONDITIONS. , 2007, 17, 451-472.		10
82	Simulation of the air/fuel mixing of an HSDI diesel engine. Part 1: A new dense spray vapour coupling submodel. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2006, 220, 1793-1805.	1.1	3
83	Numerical Investigation Into Effect of Fuel Injection Timing on CAI/HCCI Combustion in a Four-Stroke GDI Engine. International Journal for Computational Methods in Engineering Science and Mechanics, 2006, 7, 41-57.	1.4	1
84	Understanding the influence of valve timings on controlled autoignition combustion in a four-stroke port fuel injection engine. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2005, 219, 807-823.	1.1	18
85	Investigation into the Effect of Injection Timing on Stoichiometric and Lean CAI Operations in a 4-Stroke GDI Engine. , 0, , .		14