Weiqi Ji

List of Publications by Year in descending order

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19 papers	785 citations	516710 16 h-index	794594 19 g-index
20 all docs	20 docs citations	20 times ranked	493 citing authors

#	Article	IF	Citations
1	Stiff-PINN: Physics-Informed Neural Network for Stiff Chemical Kinetics. Journal of Physical Chemistry A, 2021, 125, 8098-8106.	2.5	100
2	First-stage ignition delay in the negative temperature coefficient behavior: Experiment and simulation. Combustion and Flame, 2016, 167, 14-23.	5.2	83
3	Machine learning for combustion. Energy and AI, 2022, 7, 100128.	10.6	68
4	Autonomous Discovery of Unknown Reaction Pathways from Data by Chemical Reaction Neural Network. Journal of Physical Chemistry A, 2021, 125, 1082-1092.	2.5	61
5	Machine learning model to project the impact of COVID-19 on US motor gasoline demand. Nature Energy, 2020, 5, 666-673.	39.5	56
6	Stiff neural ordinary differential equations. Chaos, 2021, 31, 093122.	2.5	53
7	Ignition delay measurements of light naphtha: A fully blended low octane fuel. Proceedings of the Combustion Institute, 2017, 36, 315-322.	3.9	46
8	On the controlling mechanism of the upper turnover states in the NTC regime. Combustion and Flame, 2016, 164, 294-302.	5.2	42
9	Shared low-dimensional subspaces for propagating kinetic uncertainty to multiple outputs. Combustion and Flame, 2018, 190, 146-157.	5.2	38
10	Quantifying kinetic uncertainty in turbulent combustion simulations using active subspaces. Proceedings of the Combustion Institute, 2019, 37, 2175-2182.	3.9	38
11	Intermediate species measurement during iso-butanol auto-ignition. Combustion and Flame, 2015, 162, 3541-3553.	5.2	32
12	Evolution of sensitivity directions during autoignition. Proceedings of the Combustion Institute, 2019, 37, 807-815.	3.9	32
13	Autonomous kinetic modeling of biomass pyrolysis using chemical reaction neural networks. Combustion and Flame, 2022, 240, 111992.	5.2	32
14	On the crossover temperature and lower turnover state in the NTC regime. Proceedings of the Combustion Institute, 2017, 36, 343-353.	3.9	29
15	Measurement of reaction rate constants using RCM: A case study of decomposition of dimethyl carbonate to dimethyl ether. Combustion and Flame, 2017, 183, 30-38.	5.2	21
16	Uncertainty analysis in mechanism reduction via active subspace and transition state analyses. Combustion and Flame, 2021, 227, 135-146.	5.2	10
17	SGD-based optimization in modeling combustion kinetics: Case studies in tuning mechanistic and hybrid kinetic models. Fuel, 2022, 324, 124560.	6.4	9
18	Dependence of kinetic sensitivity direction in premixed flames. Combustion and Flame, 2020, 220, 16-22.	5.2	6

#	Article	IF	Citations
19	Data-Driven Approaches to Learn HyChem Models. , 2021, , .		2