

Florian vom Lehn

List of Publications by Year in descending order

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13
papers

377
citations

840585

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h-index

1058333

14
g-index

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all docs

14
docs citations

14
times ranked

311
citing authors

#	ARTICLE	IF	CITATIONS
1	Auto-ignition of oxymethylene ethers (OMEn, n=4) as promising synthetic e-fuels from renewable electricity: shock tube experiments and automatic mechanism generation. <i>Fuel</i> , 2020, 264, 116711.	3.4	75
2	Higher Alcohol and Ether Biofuels for Compression-Ignition Engine Application: A Review with Emphasis on Combustion Kinetics. <i>Energy & Fuels</i> , 2021, 35, 1890-1917.	2.5	42
3	Sensitivity analysis, uncertainty quantification, and optimization for thermochemical properties in chemical kinetic combustion models. <i>Proceedings of the Combustion Institute</i> , 2019, 37, 771-779.	2.4	41
4	Laminar burning velocities, CO, and NOx emissions of premixed polyoxymethylene dimethyl ether flames. <i>Fuel</i> , 2021, 293, 120321.	3.4	38
5	Impact of thermochemistry on optimized kinetic model predictions: Auto-ignition of diethyl ether. <i>Combustion and Flame</i> , 2019, 210, 454-466.	2.8	32
6	Using machine learning with target-specific feature sets for structure-property relationship modeling of octane numbers and octane sensitivity. <i>Fuel</i> , 2020, 281, 118772.	3.4	31
7	Exploring the fuel structure dependence of laminar burning velocity: A machine learning based group contribution approach. <i>Combustion and Flame</i> , 2021, 232, 111525.	2.8	28
8	Investigating the impacts of thermochemical group additivity values on kinetic model predictions through sensitivity and uncertainty analyses. <i>Combustion and Flame</i> , 2020, 213, 394-408.	2.8	23
9	A property database of fuel compounds with emphasis on spark-ignition engine applications. <i>Applications in Energy and Combustion Science</i> , 2021, 5, 100018.	0.9	17
10	Experimental investigation of pulverized coal flames in CO ₂ /O ₂ - and N ₂ /O ₂ -atmospheres: Comparison of solid particle radiative characteristics. <i>Fuel</i> , 2017, 201, 136-147.	3.4	12
11	Adjoint sensitivity analysis of kinetic, thermochemical, and transport data of nitrogen and ammonia chemistry. <i>Proceedings of the Combustion Institute</i> , 2021, 38, 777-785.	2.4	11
12	Iterative model-based experimental design for efficient uncertainty minimization of chemical mechanisms. <i>Proceedings of the Combustion Institute</i> , 2021, 38, 1033-1042.	2.4	11
13	Updated thermochemistry for renewable transportation fuels: New groups and group values for acetals and ethers, their radicals, and peroxy species. <i>International Journal of Chemical Kinetics</i> , 2021, 53, 299-307.	1.0	9