Florian vom Lehn

List of Publications by Year
in descending order

13 papers	**377** citations	840585 **11** h-index	1058333 **14** g-index
14 all docs	**14** docs citations	**14** times ranked	**311** citing authors

#	Article	IF	Citations
1	Adjoint sensitivity analysis of kinetic, thermochemical, and transport data of nitrogen and ammonia chemistry. Proceedings of the Combustion Institute, 2021, 38, 777-785.	2.4	11
2	A property database of fuel compounds with emphasis on spark-ignition engine applications. Applications in Energy and Combustion Science, 2021, 5, 100018.	0.9	17
3	Iterative model-based experimental design for efficient uncertainty minimization of chemical mechanisms. Proceedings of the Combustion Institute, 2021, 38, 1033-1042.	2.4	11
4	Updated thermochemistry for renewable transportation fuels: New groups and group values for acetals and ethers, their radicals, and peroxy species. International Journal of Chemical Kinetics, 2021, 53, 299-307.	1.0	9
5	Higher Alcohol and Ether Biofuels for Compression-Ignition Engine Application: A Review with Emphasis on Combustion Kinetics. Energy & Fuels, 2021, 35, 1890-1917.	2.5	42
6	Laminar burning velocities, CO, and NOx emissions of premixed polyoxymethylene dimethyl ether flames. Fuel, 2021, 293, 120321.	3.4	38
7	Exploring the fuel structure dependence of laminar burning velocity: A machine learning based group contribution approach. Combustion and Flame, 2021, 232, 111525.	2.8	28
8	Investigating the impacts of thermochemical group additivity values on kinetic model predictions through sensitivity and uncertainty analyses. Combustion and Flame, 2020, 213, 394-408.	2.8	23
9	Auto-ignition of oxymethylene ethers (OMEn, n=2–4) as promising synthetic e-fuels from renewable electricity: shock tube experiments and automatic mechanism generation. Fuel, 2020, 264, 116711.	3.4	75
10	Using machine learning with target-specific feature sets for structure-property relationship modeling of octane numbers and octane sensitivity. Fuel, 2020, 281, 118772.	3.4	31
11	Sensitivity analysis, uncertainty quantification, and optimization for thermochemical properties in chemical kinetic combustion models. Proceedings of the Combustion Institute, 2019, 37, 771-779.	2.4	41
12	Impact of thermochemistry on optimized kinetic model predictions: Auto-ignition of diethyl ether. Combustion and Flame, 2019, 210, 454-466.	2.8	32
13	Experimental investigation of pulverized coal flames in CO2/O2- and N2/O2-atmospheres: Comparison of solid particle radiative characteristics. Fuel, 2017, 201, 136-147.	3.4	12