

# Kuang C Lin

## List of Publications by Year in descending order

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30  
papers

784  
citations

687363

13  
h-index

526287

27  
g-index

31  
all docs

31  
docs citations

31  
times ranked

845  
citing authors

#	ARTICLE	IF	CITATIONS
1	Combustion mechanism and CFD investigation of methyl isobutanoate as a component of biodiesel surrogate. <i>Energy</i> , 2022, 249, 123589.	8.8	3
2	Avoidance of Particle Accumulation in a Coating Diffuser during Dilute-Phase Pneumatic Conveying: A Case Study through Computational Fluid Dynamics. <i>Industrial &amp; Engineering Chemistry Research</i> , 2022, 61, 855-865.	3.7	2
3	A novel flameless oxidation and in-chamber melting system coupled with advanced scrubbers for a laboratory waste plant. <i>Waste Management</i> , 2021, 126, 706-718.	7.4	6
4	Numerical modeling of pulsatile blood flow through a mini-oxygenator in artificial lungs. <i>Computer Methods and Programs in Biomedicine</i> , 2021, 208, 106241.	4.7	5
5	Numerical simulation of ignition delay time for petroleum and renewable fuels. <i>Fuel</i> , 2021, 304, 121345.	6.4	7
6	Compact Mechanism and CFD Predictions for C <sub>2</sub> –C <sub>16</sub> Hydrocarbon Formation in Non-Premixed Propane Flames with Experimental Validation. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 16822-16831.	3.7	1
7	Thermal unimolecular decomposition of ethyl acetate and its reactivity toward OH radicals: A theoretical study. <i>International Journal of Chemical Kinetics</i> , 2020, 52, 580-588.	1.6	1
8	Kinetic mechanism for modeling the temperature effect on PAH formation in pyrolysis of acetylene. <i>Fuel</i> , 2019, 255, 115796.	6.4	22
9	Skeletal Mechanism of Ethyl Propionate Oxidation for CFD Modeling to Predict Experimental Profiles of Unsaturated Products in a Nonpremixed Flame. <i>Energy &amp; Fuels</i> , 2018, 32, 855-866.	5.1	9
10	Low Temperature Oxidation Kinetics of Biodiesel Molecules: Rate Rules for Concerted HO <sub>2</sub> Elimination from Alkyl Ester Peroxy Radicals. <i>Journal of Physical Chemistry A</i> , 2018, 122, 8259-8273.	2.5	14
11	Simulation of nanoparticle penetration through mesh screens using a hybrid lattice-Boltzmann Lagrangian method and comparison with experiments. <i>Journal of Aerosol Science</i> , 2018, 124, 146-159.	3.8	2
12	Ab initio chemical kinetics of the CH <sub>2</sub> OO + C <sub>2</sub> F <sub>4</sub> reaction. <i>Chemical Physics Letters</i> , 2018, 706, 280-284.	2.6	10
13	A compact skeletal mechanism of propane towards applications from NTC-affected ignition predictions to CFD-modeled diffusion flames: Comparisons with experiments. <i>Fuel</i> , 2017, 203, 102-112.	6.4	20
14	3D-CFD investigation into free convection flow above a heated horizontal cylinder: Comparisons with experimental data. <i>Applied Thermal Engineering</i> , 2017, 120, 277-288.	6.0	16
15	Kinetic barriers, rate constants and branching ratios for unimolecular reactions of methyl octanoate peroxy radicals: A computational study of a mid-sized biodiesel fuel surrogate. <i>Combustion and Flame</i> , 2017, 180, 148-157.	5.2	15
16	Kinetics of Thermal Unimolecular Decomposition of Acetic Anhydride: An Integrated Deterministic and Stochastic Model. <i>Journal of Physical Chemistry A</i> , 2017, 121, 3028-3036.	2.5	11
17	Filtration of aerosol particles by clean elliptical fibers with relevance to pore size: A lattice Boltzmann-cellular automaton model. <i>Computers and Fluids</i> , 2017, 156, 534-544.	2.5	8
18	Formation of unsaturated hydrocarbons, carbonyl compounds and PAHs in a non-premixed methane/air flame doped with methyl butanoate: CFD modeling and comparison with experimental data. <i>Fuel</i> , 2016, 182, 487-493.	6.4	8

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19	Emission evaluation of a diesel engine generator operating with a proportion of isobutanol as a fuel additive in biodiesel blends. <i>Applied Thermal Engineering</i> , 2016, 100, 628-635.	6.0	45
20	Comparison of carbonyl compound emissions from a diesel engine generator fueled with blends of n-butanol, biodiesel and diesel. <i>Energy</i> , 2015, 90, 266-273.	8.8	45
21	Aerosol Particle Impaction on Fiber Arrays in a Flow Stream Using a Lattice Boltzmann Model. , 2014, , .		1
22	An Early Stage of Aerosol Particle Transport in Flows Past Periodic Arrays of Clear Staggered Obstructions: A Computational Study. <i>Aerosol Science and Technology</i> , 2014, 48, 1299-1307.	3.1	13
23	Pathways, kinetics and thermochemistry of methyl-ester peroxy radical decomposition in the low-temperature oxidation of methyl butanoate: A computational study of a biodiesel fuel surrogate. <i>Combustion and Flame</i> , 2014, 161, 2270-2287.	5.2	29
24	Microwave plasma studies of Spirulina algae pyrolysis with relevance to hydrogen production. <i>Energy</i> , 2014, 64, 567-574.	8.8	63
25	The role of the methyl ester moiety in biodiesel combustion: A kinetic modeling comparison of methyl butanoate and n-butane. <i>Fuel</i> , 2012, 92, 16-26.	6.4	51
26	Biodiesel combustion: Advances in chemical kinetic modeling. <i>Progress in Energy and Combustion Science</i> , 2011, 37, 1-14.	31.2	187
27	Natural convection heat transfer of nanofluids in a vertical cavity: Effects of non-uniform particle diameter and temperature on thermal conductivity. <i>International Journal of Heat and Fluid Flow</i> , 2010, 31, 236-245.	2.4	114
28	Kinetic Modeling of Methyl Butanoate in Shock Tube. <i>Journal of Physical Chemistry A</i> , 2008, 112, 13470-13480.	2.5	70
29	Minimized Skeletal Mechanism for Methyl Butanoate Oxidation and Its Application to the Prediction of $C_3$ – $C_4$ Products in Nonpremixed Flames: A Base Model of Biodiesel Fuels. <i>Energy &amp; Fuels</i> , 0, , .	5.1	5
30	A two-phase model for studying the complex interplay between natural convection and magnetic field in aluminum-oxide/water nanofluid. <i>Numerical Heat Transfer; Part A: Applications</i> , 0, , 1-14.	2.1	1