

Peng Liu

List of Publications by Year in descending order

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64
papers

2,175
citations

236925

25
h-index

233421

45
g-index

64
all docs

64
docs citations

64
times ranked

1753
citing authors

#	ARTICLE	IF	CITATIONS
1	Review of state of the art technologies of selective catalytic reduction of NO _x from diesel engine exhaust. Applied Thermal Engineering, 2014, 66, 395-414.	6.0	392
2	Review of the state-of-the-art of exhaust particulate filter technology in internal combustion engines. Journal of Environmental Management, 2015, 154, 225-258.	7.8	337
3	Mobility size and mass of nascent soot particles in a benchmark premixed ethylene flame. Combustion and Flame, 2015, 162, 3810-3822.	5.2	118
4	Particle size distribution of nascent soot in lightly and heavily sooting premixed ethylene flames. Combustion and Flame, 2016, 165, 177-187.	5.2	67
5	The site effect on PAHs formation in HACA-based mass growth process. Combustion and Flame, 2019, 199, 54-68.	5.2	67
6	Soot formation in laminar flames of ethylene/ammonia. Combustion and Flame, 2020, 220, 210-218.	5.2	63
7	In situ DRIFTS study of the mechanism of low temperature selective catalytic reduction over manganese-iron oxides. Chinese Journal of Catalysis, 2014, 35, 294-301.	14.0	53
8	The Diagnostics of Laser-Induced Fluorescence (LIF) Spectra of PAHs in Flame with TD-DFT: Special Focus on Five-Membered Ring. Journal of Physical Chemistry A, 2015, 119, 13009-13017.	2.5	46
9	Investigating the Role of CH ₂ Radicals in the HACA Mechanism. Journal of Physical Chemistry A, 2015, 119, 3261-3268.	2.5	45
10	Experimental and kinetic study of the effects of CO ₂ and H ₂ O addition on PAH formation in laminar premixed C ₂ H ₄ /O ₂ /Ar flames. Combustion and Flame, 2018, 192, 439-451.	5.2	45
11	Computational study of polycyclic aromatic hydrocarbons growth by vinylacetylene addition. Combustion and Flame, 2019, 202, 276-291.	5.2	42
12	The growth of PAHs and soot in the post-flame region. Proceedings of the Combustion Institute, 2019, 37, 977-984.	3.9	40
13	Chemical Mechanism of Exhaust Gas Recirculation on Polycyclic Aromatic Hydrocarbons Formation Based on Laser-Induced Fluorescence Measurement. Energy & Fuels, 2018, 32, 7112-7124.	5.1	39
14	Experimental and kinetic modeling study of ammonia addition on PAH characteristics in premixed n-heptane flames. Fuel Processing Technology, 2021, 214, 106682.	7.2	37
15	Effect of dimethyl ether (DME) addition on sooting limits in counterflow diffusion flames of ethylene at elevated pressures. Combustion and Flame, 2018, 197, 463-470.	5.2	34
16	Electric field promoted ultra-lean methane oxidation over Pd-Ce-Zr catalysts at low temperature. Molecular Catalysis, 2018, 459, 78-88.	2.0	34
17	Electric field assisted benzene oxidation over Pt-Ce-Zr nano-catalysts at low temperature. Journal of Hazardous Materials, 2021, 407, 124349.	12.4	34
18	Mobility size distributions of soot in premixed propene flames. Combustion and Flame, 2016, 172, 365-373.	5.2	32

#	ARTICLE	IF	CITATIONS
19	Investigation on the chemical effects of dimethyl ether and ethanol additions on PAH formation in laminar premixed ethylene flames. <i>Fuel</i> , 2019, 256, 115809.	6.4	30
20	Evolution of oxygenated polycyclic aromatic hydrocarbon chemistry at flame temperatures. <i>Combustion and Flame</i> , 2019, 209, 441-451.	5.2	30
21	Catalytic Combustion of Lean Methane Assisted by an Electric Field over Mn _x Co _y Catalysts at Low Temperature. <i>Journal of Physical Chemistry C</i> , 2019, 123, 10377-10388.	3.1	29
22	Rapid soot inception via $\hat{\pm}$ -alkynyl substitution of polycyclic aromatic hydrocarbons. <i>Fuel</i> , 2021, 295, 120580.	6.4	29
23	Mutation in SUMO E3 ligase, SIZ1, Disrupts the Mature Female Gametophyte in Arabidopsis. <i>PLoS ONE</i> , 2012, 7, e29470.	2.5	28
24	Synthesis of Bi ₂ O ₃ /g-C ₃ N ₄ for enhanced photocatalytic CO ₂ reduction with a Z-scheme mechanism. <i>RSC Advances</i> , 2019, 9, 37162-37170.	3.6	28
25	Effects of ammonia addition on PAH formation in laminar premixed ethylene flames based on laser-induced fluorescence measurement. <i>Energy</i> , 2020, 213, 118868.	8.8	27
26	Removal of NO _x from wet flue gas by corona discharge. <i>Fuel</i> , 2004, 83, 1251-1255.	6.4	26
27	Effect of methane doping on nascent soot formation in ethylene-based laminar premixed flames. <i>Fuel</i> , 2016, 186, 422-429.	6.4	26
28	New Insights into Thermal Decomposition of Polycyclic Aromatic Hydrocarbon Oxyradicals. <i>Journal of Physical Chemistry A</i> , 2014, 118, 11337-11345.	2.5	25
29	Measurement and extrapolation modeling of PAH laser-induced fluorescence spectra at elevated temperatures. <i>Applied Physics B: Lasers and Optics</i> , 2019, 125, 1.	2.2	25
30	Role of dimethyl ether in incipient soot formation in premixed ethylene flames. <i>Combustion and Flame</i> , 2020, 216, 271-279.	5.2	24
31	In-Situ characterizations to investigate the nature of Co ³⁺ coordination environment to activate surface adsorbed oxygen for methane oxidation. <i>Applied Surface Science</i> , 2021, 556, 149713.	6.1	23
32	Study on fluorescence spectroscopy of PAHs with different molecular structures using laser-induced fluorescence (LIF) measurement and TD-DFT calculation. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 224, 117450.	3.9	21
33	Effect of mixing methane, ethane, propane and ethylene on the soot particle size distribution in a premixed propene flame. <i>Combustion and Flame</i> , 2018, 193, 54-60.	5.2	20
34	LIF diagnostics for selective and quantitative measurement of PAHs in laminar premixed flames. <i>Combustion and Flame</i> , 2020, 222, 5-17.	5.2	19
35	Experimental study on the two stage injection of diesel and gasoline blends on a common rail injection system. <i>Fuel</i> , 2015, 159, 470-475.	6.4	18
36	A comparative study on soot particle size distributions in premixed flames of RP-3 jet fuel and its surrogates. <i>Fuel</i> , 2020, 259, 116222.	6.4	17

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37	Temperature-programmed oxidation of diesel particulate matter in a hybrid catalysis-plasma reactor. Proceedings of the Combustion Institute, 2007, 31, 3335-3342.	3.9	16
38	Study of PAH formation in laminar premixed toluene and C ₈ H ₁₀ aromatics flames. Fuel, 2020, 275, 117774.	6.4	13
39	Growth network of PAH with 5-membered ring: Case study with acenaphthylene molecule. Combustion and Flame, 2021, 230, 111449.	5.2	13
40	The mechanism and kinetic analysis of C ₄ H ₄ + C ₄ H ₄ (but-1-ene-3-yne) reaction with features of H-transfer in combustion. International Journal of Hydrogen Energy, 2016, 41, 3249-3258.	7.1	12
41	Investigation on the LIF spectrum superposition of gas-phase PAH mixtures at elevated temperatures: potential for the analysis of PAH LIF spectra in sooting flames. Applied Physics B: Lasers and Optics, 2019, 125, 1.	2.2	12
42	Comparative study on properties of Pd-Ce-Zr catalysts synthesized by flame spray pyrolysis and solution combustion: Application for methane catalytic oxidation in electric field. Applied Surface Science, 2021, 566, 150536.	6.1	11
43	Effect of electric field on Ce doped TiO ₂ : Lattice phase transition, Pd valence distribution and enhancement of methane oxidation activity. Fuel, 2022, 311, 122518.	6.4	11
44	A comparative study on PAH characteristics of ethanol and ammonia as fuel additives in a premixed flame. Journal of the Energy Institute, 2022, 101, 56-66.	5.3	11
45	Gas-to-Liquid Phase Transition of PAH at Flame Temperatures. Journal of Physical Chemistry A, 2020, 124, 3896-3903.	2.5	10
46	Experimental and theoretical evidence for the temperature-determined evolution of PAH functional groups. Proceedings of the Combustion Institute, 2021, 38, 1467-1475.	3.9	9
47	Furan formation pathways exploration in low temperature oxidation of 1,3-butadiene, trans-2-butene, and cis-2-butene. Combustion and Flame, 2021, 232, 111519.	5.2	9
48	Combustion and emission characteristics of natural gas engine with partial-catalytic oxidation of the fuel. Fuel, 2022, 312, 122796.	6.4	9
49	Theoretical Study of PAH Growth by Phenylacetylene Addition. Journal of Physical Chemistry A, 2019, 123, 10323-10332.	2.5	8
50	The effect of preheating temperature on PAH/soot formation in methane/air co-flow flames at elevated pressure. Fuel, 2022, 313, 122656.	6.4	8
51	Chemical effects of anisole and toluene addition to n-heptane on PAH characteristics in laminar premixed flames by LIF measurement and kinetic model. Fuel, 2021, 303, 121255.	6.4	7
52	Size Distribution of Nascent Soot in Premixed n-Hexane, Cyclohexane, and Methylcyclohexane Flames. Energy & Fuels, 2019, 33, 5740-5748.	5.1	6
53	Electric Field Promoted Complete Oxidation of Benzene over PdCeCo Catalysts at Low Temperature. Catalysts, 2019, 9, 1071.	3.5	6
54	Soot particle size distributions in premixed flames of RP-3 jet fuel and its distillates. Fuel, 2020, 267, 117244.	6.4	6

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55	Exploring the combustion chemistry of anisole in laminar counterflow diffusion-flames under oxy-fuel conditions. <i>Combustion and Flame</i> , 2021, , 111929.	5.2	6
56	Electric field promoted oxidation of naphthalene over Cu/Ce _{0.55} Zr _{0.45} O catalysts at low temperature. <i>Molecular Catalysis</i> , 2019, 476, 110536.	2.0	5
57	Numerical investigation on the optimized arrangement for high-temperature corrosion after low NO _x transformation. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 146, 2183-2197.	3.6	5
58	Theoretical Insights into the Mechanism of CO ₂ Chemisorption and Subsequent CO Desorption on Char Surface with Zigzag Active Sites. <i>Combustion Science and Technology</i> , 2016, 188, 1136-1151.	2.3	4
59	Low temperature oxidation of toluene in an n-heptane/toluene mixture. <i>Combustion and Flame</i> , 2022, 242, 112200.	5.2	3
60	Low Temperature Oxidation of Benzene Over Pd/Co ₃ O ₄ Catalysts in the Electric Field. <i>Catalysis Letters</i> , 2021, 151, 67-77.	2.6	2
61	Incipient sooting tendency of oxygenated fuels doped in ethylene counterflow diffusion flames. <i>Combustion and Flame</i> , 2022, 244, 112284.	5.2	2
62	Removal of NO _x from flue gas with radical oxidation combined with chemical scrubber. <i>Journal of Environmental Sciences</i> , 2004, 16, 462-5.	6.1	1
63	Removal of NO _x by radical injection. <i>Science Bulletin</i> , 2004, 49, 1991-1995.	1.7	0
64	Cu-promoted Pt/Ce _{0.5} Zr _{0.5} O _x Catalyst for Ammonia Production Reaction of Passive SCR from Nitric Oxide and Hydrogen. <i>ChemistrySelect</i> , 2022, 7, .	1.5	0