Yu Wang

List of Articles by Year in descending order

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83 PR articles	2,662 PR citations	260437 24 PR h-index	204938 49 g-index
85 documents	2963 doc citations	298270 24 h-index	2299 citing authors

#	Article	IF	Citations
1	Fuel decomposition and aromatic species formation in counterflow flames of selected cycloalkanes: Effects of ring size and methyl substitution. Fuel, 2026, 404, 136223.	7.4	0
2	Efficient characterization of the two-dimensional and buoyancy effects in counterflow diffusion flames. Fuel, 2026, 405, 136495.	7.4	0
3	A comprehensive parametric study on NO and N2O formation in ammonia-methane cofired premixed flames: Spatially resolved measurements and kinetic analysis. Combustion and Flame, 2025, 272, 113851.	6.0	14
4	Ammonia-Methane Flames Stabilized in an Ordered Porous Media Burner. Energy & Fuels, 2025, 39, 6654-6670.	5.2	2
5	Infrared imaging for two-dimensional soot and temperature measurements in laminar premixed and non-premixed flames. Journal of the Energy Institute, 2025, 120, 102111.	6.1	1
6	Nitrogen-diluted ammonia SNCR for enhanced NOx removal in a ceramic roller kiln. Applications in Energy and Combustion Science, 2025, 23, 100335.	1.8	4
7	A comparative study on the effects of temperature on NO formation in ammonia/methane flames. Chemical Engineering Journal, 2025, 520, 166282.	12.0	3
8	Simultaneous Measurement of NO and NH₃ in Ultrahigh Humidity Flue Gases from Ammonia Combustion Using Mid-Infrared Laser-Absorption Spectroscopy. Energy & Fuels, 2025, 39, 14921-14934.	5.2	1
9	A midâ€infrared laser absorption sensor for calibrationâ€free measurement of nitric oxide in laminar premixed methane/ammonia cofired flames. Microwave and Optical Technology Letters, 2024, 66, .	1.0	7
10	A review of recent advancements in micro combustion techniques to enhance flame stability and fuel residence time. International Journal of Hydrogen Energy, 2024, 49, 1165-1193.	9.0	55
11	Ammonia combustion in furnaces: A review. International Journal of Hydrogen Energy, 2024, 49, 1597-1618.	9.0	104
12	On the design of a hydrogen micro-rectangular combustor for portable thermoelectric generators. Chemical Engineering and Processing: Process Intensification, 2024, 195, 109611.	3.5	6
13	NOx Emission and Control in Ammonia Combustion: State-of-the-Art Review and Future Perspectives. Energy & Fuels, 2024, 38, 43-60.	5.2	59
14	The proceeded ammonia release from ammonium nitrate owing to sodium malonate addition: Dependence of RH, acidity and surfactant. Journal of Aerosol Science, 2024, 177, 106315.	2.9	1
15	On the intricacies of soot volume fraction measurements in counterflow diffusion flames with light extinction: Effects of curtain flow. Journal of Aerosol Science, 2024, 178, 106348.	2.9	5
16	Excited Species as Heat Release Rate Markers in Laminar Premixed Ammoniaâ€“Hydrogenâ€“Air Flames. Energy & Fuels, 2024, 38, 11311-11320.	5.2	4
17	Calibration-free heterodyne phase-sensitive dispersion spectroscopy: quantitative gas sensing and recovery of absorption spectra. Optics Express, 2024, 32, 37492.	3.0	3
18	Pure Ammonia-Fueled Roller Kiln for the Production of Ceramic Tiles: A First Demonstration. Energy & Fuels, 2024, 38, 22593-22604.	5.2	9

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19	Combustion characteristics and NOx emissions of jet in hot co-flow combustion of methane/ammonia mixtures. International Journal of Hydrogen Energy, 2024, 93, 1031-1041.	9.0	12
20	Combustion characteristics of ammoniaâ€“air in a heat-recirculating Swiss-roll burner. Physics of Fluids, 2024, 36, .	3.7	1
21	Chemical and Sooting Structures of Counterflow Diffusion Flames of Butanol Isomers: An Experimental and Modeling Study. Combustion Science and Technology, 2023, 195, 2165-2190.	2.0	3
22	Midâ€infrared multiline absorption tomography for in situ analysis of thermochemical structure in natural gasâ€fired cooker flame. Microwave and Optical Technology Letters, 2023, 65, 1215-1222.	1.0	3
23	HOMO-LUMO gaps of large polycyclic aromatic hydrocarbons and their implication on the quantum confinement behavior of flame-formed carbon nanoparticles. Proceedings of the Combustion Institute, 2023, 39, 1069-1077.	4.4	29
24	Experimental investigation on the size-dependent maturity of soot particles in laminar premixed ethylene burner-stabilized stagnation flames. Proceedings of the Combustion Institute, 2023, 39, 1147-1155.	4.4	11
25	Effects of oxygen partial premixing on soot formation in ethylene counterflow flames with oscillating strain rates. Combustion and Flame, 2023, 258, 112442.	6.0	6
26	Study on repetitive extinction-ignition characteristics of methane/oxygen combustion in micro tube combustor. Fuel, 2023, 334, 126597.	7.4	6
27	Infrared spectral soot emission for robust and high-fidelity flame thermometry. Optics Letters, 2023, 48, 980.	3.0	9
28	Effects of inlet flow non-uniformities on thermochemical structures and quasi-one-dimensional simulation of sooting counterflow diffusion flames. Physics of Fluids, 2023, 35, .	3.7	5
29	A laser absorption sensor for fuel slip monitoring in high-humidity flue gases from ammonia combustion. Measurement Science and Technology, 2023, 34, 094005.	3.0	17
30	Effects of H2 addition on soot formation in counterflow diffusion flames of propane: A comparative analysis with He and N2 addition. International Journal of Hydrogen Energy, 2023, 48, 38878-38889.	9.0	5
31	Transfer-learning-based multi-wavelength laser sensor for high fidelity and real-time monitoring of ambient temperature and humidity. Applied Optics, 2023, 62, 5932.	1.5	8
32	Experimental and kinetic study on aromatic formation in counterflow diffusion flames of methane and methane/ethylene mixtures. Fuel, 2023, 354, 129304.	7.4	3
33	Effects of Ammonia Addition on the Sooting Characteristics of Ethylene Counterflow Diffusion Flames with Oscillating Strain Rates. Energy & Fuels, 2023, 37, 19950-19958.	5.2	1
34	Experimental Investigations on Non-premixed Methane-air Flames in Radial Microchannels with a Controlled Temperature Profile. Combustion Science and Technology, 2022, 194, 3318-3339.	2.0	6
35	Chemical speciation and soot measurements in laminar counterflow diffusion flames of ethylene and ammonia mixtures. Fuel, 2022, 308, 122003.	7.4	90
36	Effects of thermochemical non-uniformity on line-of-sight laser absorption thermometry in counterflow diffusion flames. Journal of Quantitative Spectroscopy and Radiative Transfer, 2022, 277, 107990.	2.8	4

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37	Development of an infrared laser absorption sensor for non-intrusive gas temperature measurements. Energetic Materials Frontiers, 2022, 3, 10-17.	3.2	2
38	A Laser-Based Multipass Absorption Sensor for Sub-ppm Detection of Methane, Acetylene and Ammonia. Sensors, 2022, 22, 556.	3.0	17
39	Slight asymmetry induces significant distortion of soot volume fraction measurements in counterflow diffusion flames with diffuse back-illumination imaging. Optics Express, 2022, 30, 6671.	3.0	5
40	Simultaneous measurements of temperature, CO2 concentration and soot volume fraction in counterflow diffusion flames using a single mid-infrared laser. Applied Physics B: Lasers and Optics, 2022, 128, .	1.8	9
41	Thermal and chemical analysis on the hetero-/homogeneous combustion characteristics of H2/Air mixture in a micro channel with catalyst segmentation. Fuel, 2022, 320, 123883.	7.4	17
42	Development and validation of a hybrid constraint spectral thermometry for laminar sooting flames. Applied Optics, 2022, 61, 8341.	1.5	3
43	An experimental and modeling study on sooting characteristics of laminar counterflow diffusion flames with partial premixing. Energy, 2021, 218, 119479.	8.9	23
44	Sooting characteristics of partially-premixed flames of ethanol and ethylene mixtures: Unravelling the opposing effects of ethanol addition on soot formation in non-premixed and premixed flames. Fuel, 2021, 291, 120089.	7.4	25
45	Transient process of methane-oxygen diffusion flame-street establishment in a microchannel. Frontiers in Energy, 2021, 16, 988-999.	4.4	4
46	Planar Light Extinction Measurement of Soot Volume Fraction in Laminar Counterflow Diffusion Flames. Frontiers in Mechanical Engineering, 2021, 7, .	2.6	3
47	Experimental and Numerical Study on the Sooting Behaviors of Furanic Biofuels in Laminar Counterflow Diffusion Flames. Energies, 2021, 14, 5995.	2.9	3
48	Numerical investigations on the methane-oxygen diffusion flame-street phenomena in a microchannel: Effects of wall temperatures, inflow rates and global equivalence ratios on flame behaviors and combustion performances. Energy, 2020, 207, 118194.	8.9	9
49	Machine Learning-Based Method for Remaining Range Prediction of Electric Vehicles. IEEE Access, 2020, 8, 212423-212441.	3.0	82
50	Effects of carbon monoxide addition on the sooting characteristics of ethylene and propane counterflow diffusion flames. Fuel, 2020, 271, 117674.	7.4	12
51	Role of dimethyl ether in incipient soot formation in premixed ethylene flames. Combustion and Flame, 2020, 216, 271-279.	6.0	28
52	Simulation of primary particle size distributions in a premixed ethylene stagnation flame. Combustion and Flame, 2020, 216, 126-135.	6.0	17
53	An Experimental Investigation of the Impact of Washcoat Composition on Gasoline Particulate Filter (GPF) Performance. Energies, 2020, 13, 693.	2.9	8
54	Temperature dependence of the fuel mixing effect on soot precursor formation in ethylene-based diffusion flames. Fuel, 2020, 267, 117121.	7.4	21

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55	Measurements of sooting limits in laminar premixed burner-stabilized stagnation ethylene, propane, and ethylene/toluene flames. Fuel, 2019, 235, 178-184.	7.4	27
56	A numerical investigation on the thermo-chemical structures of methane-oxygen diffusion flame-streets in a microchannel. Combustion and Flame, 2019, 206, 266-281.	6.0	30
57	Coupled Effects of Carbon Dioxide and Water Vapor Addition on Soot Formation in Ethylene Diffusion Flames. Energy & Fuels, 2019, 33, 5582-5596.	5.2	40
58	Effects of fuel structure on structural characteristics of soot aggregates. Combustion and Flame, 2019, 199, 301-308.	6.0	19
59	Quantitative measurement of particle size distributions of carbonaceous nanoparticles during ethylene pyrolysis in a laminar flow reactor. Combustion and Flame, 2019, 200, 15-22.	6.0	24
60	Effects of fuel inlet boundary condition on aromatic species formation in coflow diffusion flames. Journal of the Energy Institute, 2019, 92, 288-297.	6.1	20
61	Effects of Hydrogen Addition on the Standoff Distance of Premixed Burner-Stabilized Flames of Various Hydrocarbon Fuels. Energy & Fuels, 2018, 32, 2385-2396.	5.2	8
62	Application of hydrogen enriched natural gas in spark ignition IC engines: from fundamental fuel properties to engine performances and emissions. Renewable and Sustainable Energy Reviews, 2018, 82, 1457-1488.	16.5	160
63	On the Effective Density of Soot Particles in Premixed Ethylene Flames. Combustion and Flame, 2018, 198, 428-435.	6.0	27
64	Aromatic ring formation in opposed-flow diffusive 1,3-butadiene flames. Proceedings of the Combustion Institute, 2017, 36, 947-955.	4.4	44
65	A computational study of ethyleneâ€“air sooting flames: Effects of large polycyclic aromatic hydrocarbons. Combustion and Flame, 2016, 163, 427-436.	6.0	58
66	Kinetics of ethylcyclohexane pyrolysis and oxidation: An experimental and detailed kinetic modeling study. Combustion and Flame, 2015, 162, 2873-2892.	6.0	79
67	A PAH growth mechanism and synergistic effect on PAH formation in counterflow diffusion flames. Combustion and Flame, 2013, 160, 1667-1676.	6.0	303
68	The Impact of Ice Formation on Wind Turbine Performance and Aerodynamics. Journal of Solar Energy Engineering, Transactions of the ASME, 2011, 133, .	1.8	86
69	Combustion and emission characteristics of a port-injection HCNG engine under various ignition timings. International Journal of Hydrogen Energy, 2008, 33, 816-822.	9.0	139
70	Effects of hydrogen addition on cycle-by-cycle variations in a lean burn natural gas spark-ignition engine. International Journal of Hydrogen Energy, 2008, 33, 823-831.	9.0	263
71	Study on the extension of lean operation limit through hydrogen enrichment in a natural gas spark-ignition engine. International Journal of Hydrogen Energy, 2008, 33, 1416-1424.	9.0	190
72	Development and validation of a quasi-dimensional combustion model for SI engines fuelled by HCNG with variable hydrogen fractions. International Journal of Hydrogen Energy, 2008, 33, 4863-4875.	9.0	67

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73	Study on combustion behaviors and cycle-by-cycle variations in a turbocharged lean burn natural gas S.I. engine with hydrogen enrichment. International Journal of Hydrogen Energy, 2008, 33, 7245-7255.	9.0	116
74	An investigation of optimum control of a spark ignition engine fueled by NG and hydrogen mixtures. International Journal of Hydrogen Energy, 2008, 33, 7592-7606.	9.0	39
75	Effects of Combustion Phasing, Combustion Duration, and Their Cyclic Variations on Spark-Ignition (SI) Engine Efficiency. Energy & Fuels, 2008, 22, 3022-3028.	5.2	45
76	Influence of Different Volume Percent Hydrogen/Natural Gas Mixtures on Idle Performance of a CNG Engine. Energy & Fuels, 2008, 22, 1880-1887.	5.2	62
77	Experimental study on thermal efficiency and emission characteristics of a lean burn hydrogen enriched natural gas engine. International Journal of Hydrogen Energy, 2007, 32, 5067-5075.	9.0	361
78	Coagulation and combustion of soot particles in diesel engines. Combustion and Flame, 1971, 17, 409-419.	6.0	54
79	Correlation between NH3 and NO emissions of gliding arc discharge assisted ammonia/air premixed flame near the lean blowout limit. Combustion and Flame, 0, 281, 114451.	6.0	0
80	Quantitative measurements of NO oxidation rate using wavelength modulation spectroscopy and implications to NO sampling in ammonia flames. Sensors and Actuators B: Chemical, 0, 448, 138972.	7.6	0
81	Chemiluminescence-based control for low-emission combustion in a rich-lean staged burner. Journal of the Energy Institute, 0, 124, 102397.	6.1	0
82	Combining staged combustion and oxygen enrichment for stable and low-NOx porous media combustion of ammonia. Fuel, 0, 410, 137894.	7.4	0
83	NOx formation in pulverized coal co-firing with ammonia and hydrogen: effects of fuel properties and air-staging. Journal of the Energy Institute, 0, 124, 102409.	6.1	1