

Dimitrios C Kyritsis

List of Publications by Year in descending order

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77
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#	ARTICLE	IF	CITATIONS
1	A computational comparison of NH ₃ /O ₂ and CH ₄ /O ₂ non-premixed laminar flames. <i>Fuel</i> , 2022, 309, 122200.	6.4	5
2	The Effect of Hydrogen Peroxide on NH ₃ /O ₂ Counterflow Diffusion Flames. <i>Energies</i> , 2022, 15, 2216.	3.1	2
3	Chemical dynamics of the autoignition of near-stoichiometric and rich methanol/air mixtures. <i>Combustion Theory and Modelling</i> , 2022, 26, 289-319.	1.9	8
4	Emission Quantification via Passive Infrared Optical Gas Imaging: A Review. <i>Energies</i> , 2022, 15, 3304.	3.1	10
5	Dominant dynamics of n-butanol/air autoignition and the influence of additives. <i>Combustion and Flame</i> , 2022, 242, 112173.	5.2	8
6	The effect of fuel additives on the autoignition dynamics of rich methanol/air mixtures. <i>Fuel</i> , 2022, 323, 124275.	6.4	9
7	NH ₃ vs. CH ₄ autoignition: A comparison of chemical dynamics. <i>Combustion Theory and Modelling</i> , 2021, 25, 1110-1131.	1.9	13
8	NO Formation and Autoignition Dynamics during Combustion of H ₂ O-Diluted NH ₃ /H ₂ O ₂ Mixtures with Air. <i>Energies</i> , 2021, 14, 84.	3.1	24
9	Experimental Investigation of the Phenomenology of AC-Driven Ethanol Electrospays. <i>Journal of Energy Engineering - ASCE</i> , 2020, 146, 04020068.	1.9	2
10	Engine and Power Plant Combustion Technologies for Sustainability. <i>Journal of Energy Engineering - ASCE</i> , 2019, 145, 02019001.	1.9	3
11	Numerical investigation of nanofluid particle migration and convective heat transfer in microchannels using an Eulerian-Lagrangian approach. <i>Journal of Fluid Mechanics</i> , 2019, 878, 62-97.	3.4	29
12	Algorithmic Analysis of Chemical Dynamics of the Autoignition of NH ₃ -H ₂ O ₂ /Air Mixtures. <i>Energies</i> , 2019, 12, 4422.	3.1	20
13	Bioalcohol Electrospays for Practical Propulsion Systems. <i>Journal of Energy Engineering - ASCE</i> , 2019, 145, .	1.9	7
14	H ₂ /Air Autoignition Dynamics around the Third Explosion Limit. <i>Journal of Energy Engineering - ASCE</i> , 2019, 145, .	1.9	22
15	Effects of Electrostatic Voltage and Polarity on Diffusion-Controlled Propane Flame for Enhanced Efficiency. <i>Journal of Energy Engineering - ASCE</i> , 2018, 144, 04018004.	1.9	1
16	Effect of bottom surface optical boundary conditions on nanofluid-based DASC: Parametric study and optimization. <i>Solar Energy</i> , 2018, 164, 210-223.	6.1	29
17	The use of CO ₂ as an additive for ignition delay and pollutant control in CH ₄ /air autoignition. <i>Fuel</i> , 2018, 211, 898-905.	6.4	30
18	Electric Manipulation of Laminar Nonpremixed Counterflow Propane Flames. <i>Journal of Thermal Science and Engineering Applications</i> , 2017, 9, .	1.5	1

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19	Laminar Non-Premixed Counterflow Flames Manipulation through the Application of External Direct Current Fields. <i>Journal of Energy Engineering - ASCE</i> , 2017, 143, .	1.9	14
20	Occupant Tenability in Single Family Homes: Part I – Impact of Structure Type, Fire Location and Interior Doors Prior to Fire Department Arrival. <i>Fire Technology</i> , 2017, 53, 1589-1610.	3.0	14
21	Occupant Tenability in Single Family Homes: Part II: Impact of Door Control, Vertical Ventilation and Water Application. <i>Fire Technology</i> , 2017, 53, 1611-1640.	3.0	6
22	Comparative investigation of homogeneous autoignition of DME/air and EtOH/air mixtures at low initial temperatures. <i>Combustion Theory and Modelling</i> , 2017, 21, 93-119.	1.9	31
23	Advanced Combustion and Fuel Technologies for Economical and Environmentally Friendly Power Generation in Engines and Power Plants: Issues and Challenges. <i>Journal of Energy Engineering - ASCE</i> , 2016, 142, .	1.9	8
24	Algorithmic determination of the mechanism through which H ₂ O-dilution affects autoignition dynamics and NO formation in CH ₄ /air mixtures. <i>Fuel</i> , 2016, 183, 90-98.	6.4	35
25	Phenomenology of Electrostatically Manipulated Laminar Counterflow Non-Premixed Methane Flames. <i>Journal of Energy Engineering - ASCE</i> , 2016, 142, .	1.9	5
26	Ignition delay control of DME/air and EtOH/air homogeneous autoignition with the use of various additives. <i>Fuel</i> , 2016, 169, 15-24.	6.4	33
27	A methodology for velocity field measurement in multiphase high-pressure flow of CO ₂ and water in micromodels. <i>Water Resources Research</i> , 2015, 51, 3017-3029.	4.2	37
28	Special Issue on Contemporary Combustion Experimentation and Modeling for Clean and Efficient Power Generation: Issues and Challenges. <i>Journal of Energy Engineering - ASCE</i> , 2015, 141, .	1.9	7
29	Experimental Investigation of Flame Propagation in Long, Narrow, and Open Tubes. <i>Journal of Energy Engineering - ASCE</i> , 2015, 141, .	1.9	7
30	Autoignition dynamics of DME/air and EtOH/air homogeneous mixtures. <i>Combustion and Flame</i> , 2015, 162, 3263-3276.	5.2	40
31	Experimental Investigation of Coal Combustion in Coal-Laden Methane Jets. <i>Journal of Energy Engineering - ASCE</i> , 2015, 141, .	1.9	6
32	Comparative Evaluation of Extinction through Strain among Three Alcoholic Butanol Isomers in Non-Premixed Counterflow Flames. <i>Journal of Energy Engineering - ASCE</i> , 2014, 140, .	1.9	22
33	Experimental Study of Steady Quasi-Cone-Jet Electrostatic Sprays of Biobutanol for Engine Applications. <i>Journal of Energy Engineering - ASCE</i> , 2014, 140, .	1.9	27
34	Influence of properties of various common bio-fuels on the combustion and emission characteristics of high-speed DI (direct injection) diesel engine: Vegetable oil, bio-diesel, ethanol, n-butanol, diethyl ether. <i>Energy</i> , 2014, 73, 354-366.	8.8	268
35	Combined aerodynamic and electrostatic atomization of dielectric liquid jets. <i>Experiments in Fluids</i> , 2012, 53, 221-235.	2.4	16
36	Experimental investigation of bio-butanol laminar non-premixed flamelets. <i>Applied Energy</i> , 2012, 93, 296-304.	10.1	14

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37	Experimental determination of the structure of catalytic micro-combustion flows over small-scale flat plates for methane and propane fuel. <i>Combustion and Flame</i> , 2012, 159, 802-816.	5.2	40
38	Fuel composition effect on the electrostatically-driven atomization of bio-butanol containing engine fuel blends. <i>Energy Conversion and Management</i> , 2012, 60, 28-35.	9.2	17
39	Electrostatic atomization of hydrocarbon fuels and bio-alcohols for engine applications. <i>Energy Conversion and Management</i> , 2012, 60, 10-17.	9.2	31
40	Experimental Investigation of the Effects of Flame Phenomenology on the Wall Temperature Distribution of Mesoscale Nonadiabatic Ducts. <i>Combustion Science and Technology</i> , 2011, 183, 847-867.	2.3	11
41	Experimental investigation of the reactive flow field around catalytic micro-wires for intermediate Reynolds-number flows. <i>Combustion and Flame</i> , 2011, 158, 1117-1128.	5.2	2
42	An experimental comparison of non-premixed bio-butanol flames with the corresponding flames of ethanol and methane. <i>Fuel</i> , 2011, 90, 255-262.	6.4	44
43	Combustion heat release analysis of ethanol or n-butanol diesel fuel blends in heavy-duty DI diesel engine. <i>Fuel</i> , 2011, 90, 1855-1867.	6.4	288
44	Effects of butanolâ€“diesel fuel blends on the performance and emissions of a high-speed DI diesel engine. <i>Energy Conversion and Management</i> , 2010, 51, 1989-1997.	9.2	516
45	Operational regimes of rich methane and propane/oxygen flames in mesoscale non-adiabatic ducts. <i>Proceedings of the Combustion Institute</i> , 2009, 32, 3107-3114.	3.9	69
46	Experimental investigation of gaseous reactive flows around catalytically coated micro-wires. <i>Proceedings of the Combustion Institute</i> , 2009, 32, 3043-3050.	3.9	4
47	Intermediate Reynolds number flat plate boundary layer flows over catalytic surfaces for micro-combustion applications. <i>Proceedings of the Combustion Institute</i> , 2009, 32, 3035-3042.	3.9	23
48	Phenomenology of methane flame propagation into compositionally stratified, gradually richer mixtures. <i>Proceedings of the Combustion Institute</i> , 2009, 32, 979-985.	3.9	38
49	Theoretical investigation of flame propagation through compositionally stratified methaneâ€“air mixtures. <i>Combustion Theory and Modelling</i> , 2009, 13, 705-719.	1.9	13
50	Experimental investigation of electrostatic effects on ethanol and ethanol-diesel blend sprays in atmospheric ambiance. <i>International Journal of Vehicle Design</i> , 2009, 50, 35.	0.3	4
51	Phenomenology of electrostatically charged droplet combustion in normal gravity. <i>Combustion and Flame</i> , 2008, 154, 624-629.	5.2	20
52	Availability analysis of hydrogen/natural gas blends combustion in internal combustion engines. <i>Energy</i> , 2008, 33, 248-255.	8.8	113
53	Experimental-stochastic investigation of the combustion cyclic variability in HSDI diesel engine using ethanolâ€“diesel fuel blends. <i>Fuel</i> , 2008, 87, 1478-1491.	6.4	86
54	Intermediate Reynolds/Peclet number, flat plate boundary layer flows over catalytic surfaces for micro-combustion applications. <i>International Journal of Alternative Propulsion</i> , 2007, 1, 294.	0.9	3

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55	Experimental investigation of the possibility of automotive gasoline spray manipulation through electrostatic fields. <i>International Journal of Vehicle Design</i> , 2007, 45, 61.	0.3	14
56	Preliminary experimental study of butanol electrospays for power generation. , 2007, , .		14
57	Departure from quasi-homogeneity during laminar flame propagation in lean, compositionally stratified methane-air mixtures. <i>Proceedings of the Combustion Institute</i> , 2007, 31, 1075-1083.	3.9	54
58	Synopsis of experimentally determined effects of electrostatic charge on gasoline sprays. <i>Energy Conversion and Management</i> , 2007, 48, 2762-2768.	9.2	14
59	A combined experimental/computational investigation of stratified combustion in methane-air mixtures. <i>Energy Conversion and Management</i> , 2007, 48, 2769-2774.	9.2	25
60	Hydrogen enrichment effects on the second law analysis of natural and landfill gas combustion in engine cylinders. <i>International Journal of Hydrogen Energy</i> , 2006, 31, 1384-1393.	7.1	94
61	Experimental study of flame stabilization in low Reynolds and Dean number flows in curved mesoscale ducts. <i>Proceedings of the Combustion Institute</i> , 2005, 30, 2419-2427.	3.9	126
62	Experimental evaluation of flame observables for simplified scalar dissipation rate measurements in laminar diffusion flamelets. <i>Proceedings of the Combustion Institute</i> , 2005, 30, 493-500.	3.9	10
63	METHANE FLAME PROPAGATION IN COMPOSITIONALLY STRATIFIED GASES. <i>Combustion Science and Technology</i> , 2005, 177, 2191-2210.	2.3	63
64	Validation and sensitivity analysis of a two zone Diesel engine model for combustion and emissions prediction. <i>Energy Conversion and Management</i> , 2004, 45, 1471-1495.	9.2	124
65	The effect of temperature correction on the measured thickness of formaldehyde zones in diffusion flames for 355nm excitation. <i>Experiments in Fluids</i> , 2004, 37, 769-772.	2.4	29
66	Mesoscale combustion: a first step towards liquid fueled batteries. <i>Experimental Thermal and Fluid Science</i> , 2004, 28, 763-770.	2.7	87
67	Optimization of a catalytic combustor using electrospayed liquid hydrocarbons for mesoscale power generation. <i>Combustion and Flame</i> , 2004, 139, 77-89.	5.2	89
68	Development and validation of a comprehensive two-zone model for combustion and emissions formation in a DI diesel engine. <i>International Journal of Energy Research</i> , 2003, 27, 1221-1249.	4.5	82
69	The Electropray and Combustion at the Mesoscale.. <i>Journal of the Mass Spectrometry Society of Japan</i> , 2003, 51, 42-49.	0.1	28
70	Mesoscale power generation by a catalytic combustor using electrospayed liquid hydrocarbons. <i>Proceedings of the Combustion Institute</i> , 2002, 29, 965-972.	3.9	86
71	Quantitative scalar dissipation rate measurements in vortex-perturbed counterflow diffusion flames. <i>Proceedings of the Combustion Institute</i> , 2002, 29, 1679-1685.	3.9	17
72	Nitric oxide formation during flame/vortex interaction. <i>Proceedings of the Combustion Institute</i> , 2002, 29, 2227-2233.	3.9	10

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73	Comparative second-law analysis of internal combustion engine operation for methane, methanol, and dodecane fuels. <i>Energy</i> , 2001, 26, 705-722.	8.8	137
74	Vortex-induced extinction behavior in methanol gaseous flames: A comparison with quasi-steady extinction. <i>Proceedings of the Combustion Institute</i> , 2000, 28, 2109-2116.	3.9	35
75	An experimental study of vortex-flame interaction in counterflow spray diffusion flames. <i>Proceedings of the Combustion Institute</i> , 2000, 28, 1023-1030.	3.9	28
76	Quantitative two-dimensional instantaneous Raman concentration measurements in a laminar methane jet. <i>Applied Optics</i> , 2000, 39, 6771.	2.1	8
77	Availability accumulation and destruction in a DI diesel engine with special reference to the limited cooled case. <i>Heat Recovery Systems & CHP</i> , 1993, 13, 261-276.	0.3	40