

# Tie Li

## List of Publications by Year in descending order

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105  
papers

2,151  
citations

331538

21  
h-index

315616

38  
g-index

107  
all docs

107  
docs citations

107  
times ranked

1301  
citing authors

#	ARTICLE	IF	CITATIONS
1	Measurement and modeling of the near-nozzle ambient gas entrainment of high-pressure diesel sprays. <i>Fuel</i> , 2022, 310, 122373.	3.4	9
2	Evaluation of trans-critical transition of single- and multi-component sprays under diesel engine-like conditions. <i>Applied Thermal Engineering</i> , 2022, 202, 117830.	3.0	7
3	Phase Transition of n-Heptane/Ethanol Blends from Subcritical to Supercritical Conditions. <i>International Journal of Heat and Mass Transfer</i> , 2022, 185, 122405.	2.5	9
4	Effects of various discharge strategies on ignition and combustion of lean natural gas mixture under the static and turbulent conditions. <i>Experimental Thermal and Fluid Science</i> , 2022, 133, 110581.	1.5	5
5	A comparison between low- and high-pressure injection dual-fuel modes of diesel-pilot-ignition ammonia combustion engines. <i>Journal of the Energy Institute</i> , 2022, 102, 362-373.	2.7	63
6	An investigation on near-field and far-field characteristics of superheated ammonia spray. <i>Fuel</i> , 2022, 324, 124683.	3.4	19
7	Particle volatility, size distribution and PAH/alkyl-PAH profiles during toluene pyrolysis in a flow reactor. <i>Aerosol Science and Technology</i> , 2022, 56, 819-832.	1.5	5
8	Micro Morphology of Soot Particles Sampled from High Pressure Jet Flames of Diesel from Direct Coal Liquefaction. <i>Journal of Thermal Science</i> , 2022, 31, 2155-2170.	0.9	1
9	Experimental study of soot particles characteristics for hydrous ethanol diesel emulsified fuel under diesel-like conditions. <i>Fuel Processing Technology</i> , 2022, 235, 107384.	3.7	5
10	Modeling of diesel spray tip penetration during start-of-injection transients. <i>International Journal of Engine Research</i> , 2021, 22, 3013-3029.	1.4	10
11	Experimental and numerical investigation of low sulfur heavy fuel oil spray characteristics under high temperature and pressure conditions. <i>Fuel</i> , 2021, 286, 119327.	3.4	14
12	Similarity of split-injected fuel sprays for different size diesel engines. <i>International Journal of Engine Research</i> , 2021, 22, 1028-1044.	1.4	11
13	Transcritical evaporation and micro-explosion of ethanol-diesel droplets under diesel engine-like conditions. <i>Fuel</i> , 2021, 284, 118892.	3.4	22
14	Study on three droplet sequential burning characteristics of coal direct liquefied diesel. <i>AIP Advances</i> , 2021, 11, 045034.	0.6	3
15	Influencing factors on the vibrational and rotational temperatures in the spark discharge channel. <i>Energy</i> , 2021, 222, 119995.	4.5	5
16	Design of Cost-Effective and Emission-Aware Power Plant System for Integrated Electric Propulsion Ships. <i>Journal of Marine Science and Engineering</i> , 2021, 9, 684.	1.2	7
17	Quantitative 1-D LIBS measurements of fuel concentration in natural gas jets at high ambient pressure. <i>Experimental Thermal and Fluid Science</i> , 2021, 126, 110401.	1.5	4
18	Laminar burning characteristics of ammonia/hydrogen/air mixtures with laser ignition. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 31879-31893.	3.8	47

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19	Spray evolution and thermal pyrolysis of low sulfur heavy fuel oils under high temperatures. <i>Fuel</i> , 2021, 299, 120878.	3.4	3
20	The similarity ratio effects in design of scaled model experiments for marine diesel engines. <i>Energy</i> , 2021, 231, 121116.	4.5	6
21	Modeling of the entire processes of diesel spray tip penetration including the start- and end-of-injection transients. <i>Journal of the Energy Institute</i> , 2021, 98, 271-281.	2.7	10
22	A study of smart thermal insulation coating on improving thermal efficiency in a marine two-stroke low-speed diesel engine. <i>Fuel</i> , 2021, 304, 120760.	3.4	7
23	Injection characteristics and fuel-air mixing process of ammonia jets in a constant volume vessel. <i>Fuel</i> , 2021, 304, 121408.	3.4	23
24	Simulation data for similarity of spray combustion processes in marine low-speed diesel engines. <i>Data in Brief</i> , 2020, 28, 104837.	0.5	4
25	Quantitative evaluation of the breakdown process of spark discharge for spark-ignition engines. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 045501.	1.3	14
26	Scaling liquid penetration in evaporating sprays for different size diesel engines. <i>International Journal of Engine Research</i> , 2020, 21, 1662-1677.	1.4	14
27	Evaporation and condensation characteristics of n-heptane and multi-component diesel droplets under typical spray relevant conditions. <i>International Journal of Heat and Mass Transfer</i> , 2020, 163, 120162.	2.5	13
28	Energy efficiency of integrated electric propulsion for ships – A review. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 134, 110145.	8.2	128
29	On the fuel injection rate profile as boundary conditions for diesel spray combustion simulations. <i>Fuel</i> , 2020, 276, 118026.	3.4	16
30	Time-resolved measurement of the near-nozzle air entrainment of high-pressure diesel spray by high-speed micro-PTV technique. <i>Fuel</i> , 2020, 268, 117343.	3.4	14
31	Characteristics of Ammonia/Hydrogen Premixed Combustion in a Novel Linear Engine Generator. <i>Proceedings (mdpi)</i> , 2020, 58, .	0.2	6
32	Characterization of the Morphology and Nanostructure of the Soot Particles Produced within Transient Diesel Reacting Jet Flame by Using Thermophoretic Sampling Technique. <i>Energy &amp; Fuels</i> , 2019, 33, 9124-9137.	2.5	7
33	Scaling spray combustion processes in marine low-speed diesel engines. <i>Fuel</i> , 2019, 258, 116133.	3.4	21
34	Simultaneous measurements of fuel concentration and temperature in gas jets by laser induced breakdown spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2019, 161, 105706.	1.5	13
35	Characteristics of Particulate Matter Emissions from a Low-Speed Marine Diesel Engine at Various Loads. <i>Environmental Science &amp; Technology</i> , 2019, 53, 11552-11559.	4.6	26
36	Study on the Physicochemical Properties and Spray and Combustion Characteristics of 1-Butanol/Diesel Fuel Blends in a Constant-Volume Combustion Chamber. <i>Energy &amp; Fuels</i> , 2019, 33, 10218-10227.	2.5	10

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37	Rotational and vibrational temperatures in the spark plasma by various discharge energies and strategies. <i>Applied Energy</i> , 2019, 251, 113358.	5.1	19
38	Influence of the pressure and temperature on laser induced breakdown spectroscopy for gas concentration measurements. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2019, 155, 24-33.	1.5	21
39	Temporal Evolution of Split-Injected Fuel Spray at Elevated Chamber Pressures. <i>Energies</i> , 2019, 12, 4284.	1.6	8
40	The evolution of soot morphology and nanostructure along axial direction in diesel spray jet flames. <i>Combustion and Flame</i> , 2019, 199, 204-212.	2.8	28
41	Ambient Tracer-LIF for 2-D quantitative measurement of fuel concentration in gas jets. <i>Energy</i> , 2019, 171, 372-384.	4.5	7
42	Modeling diesel spray tip and tail penetrations after end-of-injection. <i>Fuel</i> , 2019, 237, 442-456.	3.4	35
43	Scaling fuel sprays for different size diesel engines. <i>Fuel</i> , 2018, 225, 358-369.	3.4	30
44	Morphology and nano-structure analysis of soot particles sampled from high pressure diesel jet flames under diesel-like conditions. <i>Measurement Science and Technology</i> , 2018, 29, 045801.	1.4	8
45	Impacts of multiple pilot diesel injections on the premixed combustion of ethanol fuel. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2018, 232, 738-754.	1.1	6
46	Effects of Various Discharge Strategies on Ignition of Lean Methane/Air Mixture. , 2018, , .		2
47	Superheat limit and micro-explosion in droplets of hydrous ethanol-diesel emulsions at atmospheric pressure and diesel-like conditions. <i>Energy</i> , 2018, 154, 535-543.	4.5	46
48	Early Pilot Injection Strategies for Reactivity Control in Diesel-ethanol Dual Fuel Combustion. , 2018, , .		7
49	Characteristics of non-evaporating, evaporating and burning sprays of hydrous ethanol diesel emulsified fuels. <i>Fuel</i> , 2017, 191, 251-265.	3.4	65
50	Anatomy of the cooled EGR effects on soot emission reduction in boosted spark-ignited direct-injection engines. <i>Applied Energy</i> , 2017, 190, 43-56.	5.1	37
51	A phenomenological model of knock intensity in spark-ignition engines. <i>Energy Conversion and Management</i> , 2017, 148, 1233-1247.	4.4	26
52	Spray Combustion Characteristics and Soot Emission Reduction of Hydrous Ethanol Diesel Emulsion Fuel Using Color-Ratio Pyrometry. <i>Energies</i> , 2017, 10, 2062.	1.6	19
53	Simultaneous Measurement of the Flame Lift-Off Length on Direct Injection Diesel Sprays Using High Speed Schlieren Imaging and OH Chemiluminescence. , 2017, , .		1
54	Determination of Knock Limited Spark Advance in Engine Cycle Simulation. <i>The Proceedings of the International Symposium on Diagnostics and Modeling of Combustion in Internal Combustion Engines</i> , 2017, 2017.9, A103.	0.1	0

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55	A parametric study for enabling reactivity controlled compression ignition (RCCI) operation in diesel engines at various engine loads. Applied Energy, 2016, 175, 389-402.	5.1	88
56	An investigation into the RCCI engine operation under low load and its achievable operational range at different engine speeds. Energy Conversion and Management, 2016, 124, 399-413.	4.4	34
57	Optimization of combustion chamber geometry for natural gas engines with diesel micro-pilot-induced ignition. Energy Conversion and Management, 2016, 122, 552-563.	4.4	51
58	A comparison between Miller and five-stroke cycles for enabling deeply downsized, highly boosted, spark-ignition engines with ultra expansion. Energy Conversion and Management, 2016, 123, 140-152.	4.4	41
59	Fuel conversion efficiency improvements in a highly boosted spark-ignition engine with ultra-expansion cycle. Energy Conversion and Management, 2015, 103, 448-458.	4.4	22
60	Direct injection of neat n-butanol for enabling clean low temperature combustion in a modern diesel engine. Fuel, 2015, 142, 28-37.	3.4	68
61	Optimization of Compression Ratio of a Boosted PFI SI Engine with Cooled EGR. , 2014, , .		4
62	Influence of fuel properties on operational range and combustion characteristics of premixed diesel combustion with high volatility fuel. International Journal of Engine Research, 2014, 15, 557-564.	1.4	4
63	Combined effects of cooled EGR and a higher geometric compression ratio on thermal efficiency improvement of a downsized boosted spark-ignition direct-injection engine. Energy Conversion and Management, 2014, 78, 65-73.	4.4	116
64	The Miller cycle effects on improvement of fuel economy in a highly boosted, high compression ratio, direct-injection gasoline engine: EIVC vs. LIVC. Energy Conversion and Management, 2014, 79, 59-65.	4.4	129
65	A predictive model for knock onset in spark-ignition engines with cooled EGR. Energy Conversion and Management, 2014, 87, 946-955.	4.4	83
66	Thermodynamic analysis of EGR effects on the first and second law efficiencies of a boosted spark-ignited direct-injection gasoline engine. Energy Conversion and Management, 2013, 70, 130-138.	4.4	69
67	Effects of EGR and Pilot Injection on Characteristics of Combustion and Emissions of Diesel Engines with Low Ignitability Fuel. , 2012, , .		0
68	OS2-5 Soot Emission Reduction Using Cooled EGR for a Boosted Spark-Ignition Direct-Injection (SIDI) Engine(OS2 EGR combustion,Organized Session Papers). The Proceedings of the International Symposium on Diagnostics and Modeling of Combustion in Internal Combustion Engines, 2012, 2012.8, 98-103.	0.1	6
69	HC1-2 Influence of Fuel Properties on Operational Range and Combustion Characteristics of Premixed Diesel Combustion with High Volatility Fuel(HC: HCCI Combustion,General Session Papers). The Proceedings of the International Symposium on Diagnostics and Modeling of Combustion in Internal Combustion Engines. 2012, 2012.8, 392-397.	0.1	0
70	Effect of Fuel Ignitability on the Stable Operating Range of Premixed Diesel Combustion. 880-02 Nihon Kikai Gakkai RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 2011, 77, 1844-1851.	0.2	0
71	Application of Low Cetane Number Fuels in Diesel Engines. 880-02 Nihon Kikai Gakkai RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 2011, 77, 1852-1857.	0.2	0
72	Droplet size distribution and evaporation characteristics of fuel spray by a swirl type atomizer. Fuel, 2011, 90, 2367-2376.	3.4	83

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73	Effect of Two-Stage Injections on Unburned Hydrocarbon and Carbon Monoxide Emissions from Ultra-High EGR Low Temperature Diesel Combustion(Thermal Engineering). 880-02 Nihon Kikai Gakkai RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 2010, 76, 1004-1009.	0.2	0
74	Analysis of Chemical Kinetics of the Trade-off between Soot and Nitrogen Oxides in Diesel Combustion(Thermal Engineering). 880-02 Nihon Kikai Gakkai RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 2010, 76, 2280-2285.	0.2	0
75	Effects of ethyl tert-butyl ether addition to diesel fuel on characteristics of combustion and exhaust emissions of diesel engines. Fuel, 2009, 88, 2017-2024.	3.4	29
76	Characteristics of Nano-Particulate Matter from Ultra-High EGR Low Temperature Diesel Combustion. 880-02 Nihon Kikai Gakkai RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 2008, 74, 1199-1204.	0.2	1
77	DE1-1: Effects of In-Cylinder Temperature and Fuel-Air Mixing on Smokeless Low Temperature Diesel Combustion(DE: Diesel Engine Combustion,General Session Papers). The Proceedings of the International Symposium on Diagnostics and Modeling of Combustion in Internal Combustion Engines, 2008. 2008.7. 135-142.	0.1	14
78	Characteristics of Unregulated Toxic Emissions from Ultra-High EGR Low Temperature Diesel Combustion and Effects of Exhaust Catalysts. 880-02 Nihon Kikai Gakkai RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 2007, 73, 1129-1134.	0.2	9
79	Improvements in Low Temperature Diesel Combustion with Blending ETBE to Diesel Fuel. , 2007, , .		2
80	Dependence of Ultra-High EGR Low Temperature Diesel Combustion on Fuel Properties. , 2006, , .		34
81	The Dependence of Ultra-High EGR and Low Oxygen Diesel Combustion on Fuel Properties. 880-02 Nihon Kikai Gakkai RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 2006, 72, 1857-1862.	0.2	2
82	The Dependence of Ultra-High EGR and Low Oxygen Diesel Combustion on Fuel Injection and Compression Ratio. 880-02 Nihon Kikai Gakkai RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 2006, 72, 543-549.	0.2	1
83	Enhancement of Stratified Charge for DISI Engines through Split Injection(Effect and Its Mechanism). JSME International Journal Series B, 2005, 48, 687-694.	0.3	21
84	CHARACTERIZATION OF INITIAL SPRAY FROM A D.I. GASOLINE INJECTOR BY HOLOGRAPHY AND LASER DIFFRACTION METHOD; , 2004, 14, 477-494.		16
85	Characterization of Mixture Formation Processes in DI Gasoline Engine Sprays with Split Injection Strategy via Laser Absorption and Scattering (LAS) Technique. , 2003, , .		8
86	Quantitative Measurement of Liquid and Vapor Phase Concentration Distributions in a D.I. Gasoline Spray by the Laser Absorption Scattering (LAS) Technique. , 0, , .		18
87	Characterization of Mixture Formation Processes in D.I. Gasoline Sprays by the Laser Absorption Scattering (LAS) Technique - Effect of Injection Conditions. , 0, , .		2
88	An Insight Into Effect of Split Injection on Mixture Formation and Combustion of DI Gasoline Engines. , 0, , .		16
89	Dependence of Ultra-High EGR and Low Temperature Diesel Combustion on Fuel Injection Conditions and Compression Ratio. , 0, , .		36
90	Characterization of Low Temperature Diesel Combustion with Various Dilution Gases. , 0, , .		25

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91	Effect of Exhaust Catalysts on Regulated and Unregulated Emissions from Low Temperature Diesel Combustion with High Rates of Cooled EGR. SAE International Journal of Fuels and Lubricants, 0, 1, 274-282.	0.2	7
92	Characteristics of Smokeless Low Temperature Diesel Combustion in Various Fuel-Air Mixing and Expansion of Operating Load Range. , 0, , .		34
93	Analysis of the Trade-off between Soot and Nitrogen Oxides in Diesel-Like Combustion by Chemical Kinetic Calculation. SAE International Journal of Engines, 0, 5, 94-101.	0.4	30
94	Flame Area Correlations with Heat Release at Early Flame Development of Combustion Process in a Spark-Ignition Direct-Injection Engine Using Gasoline, Ethanol and Butanol. , 0, , .		26
95	Suitability Study of n-Butanol for Enabling PCCI and HCCI and RCCI Combustion on a High Compression-ratio Diesel Engine. , 0, , .		30
96	Analysis of Thermal Efficiency Improvement of a Highly Boosted, High Compression Ratio, Direct-Injection Gasoline Engine with LIVC and EIVC at Partial and Full Loads. , 0, , .		10
97	Measurement of Temperature and Soot (KL) Distributions in Spray Flames of Diesel-Butanol Blends by Two-Color Method Using High-Speed RGB Video Camera. , 0, , .		7
98	A Feasibility Study of Using DI Butanol as an Ignition Source for Dual-Fuel Combustion. , 0, , .		1
99	Theoretical Study on Similarity of Diesel Combustion. , 0, , .		7
100	Preliminary Testing of n-Butanol HCCI on High Compression Ratio Diesel Engines. , 0, , .		5
101	Scaled Model Experiments for Marine Low-Speed Diesel Engines. , 0, , .		1
102	Combustion Characterization of Neat n-Butanol in an SI Engine. , 0, , .		5
103	Experimental Study on the Characteristics of Short Circuits and Restrikes of Spark Channels. , 0, , .		4
104	Application of the Newly Developed KLSA Model into Optimizing the Compression Ratio of a Turbocharged SI Engine with Cooled EGR. , 0, , .		0
105	Energy Management Optimization for Plug-In Hybrid Electric Vehicles Based on Real-World Driving Data. , 0, , .		2