

# Tiemin Xuan

## List of Publications by Year in descending order

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101  
papers

3,111  
citations

126907

33  
h-index

197818

49  
g-index

102  
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102  
docs citations

102  
times ranked

1932  
citing authors

#	ARTICLE	IF	CITATIONS
1	A review on low temperature combustion engines: Performance, combustion and emission characteristics. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 116, 109404.	16.4	160
2	A literature review of fuel effects on performance and emission characteristics of low-temperature combustion strategies. <i>Applied Energy</i> , 2019, 251, 113380.	10.1	130
3	Effect of operating conditions on direct liquefaction of low-lipid microalgae in ethanol-water co-solvent for bio-oil production. <i>Energy Conversion and Management</i> , 2017, 141, 155-162.	9.2	86
4	Effects of the aqueous phase recycling on bio-oil yield in hydrothermal liquefaction of <i>Spirulina Platensis</i> , $\beta$ -cellulose, and lignin. <i>Energy</i> , 2019, 179, 1103-1113.	8.8	76
5	Co-hydrothermal carbonization of digested sewage sludge and cow dung biogas residue: Investigation of the reaction characteristics. <i>Energy</i> , 2019, 187, 115972.	8.8	71
6	Effects of micro-hole nozzle and ultra-high injection pressure on air entrainment, liquid penetration, flame lift-off and soot formation of diesel spray flame. <i>International Journal of Engine Research</i> , 2017, 18, 51-65.	2.3	69
7	Diesel-oxygenated fuels ternary blends with nano additives in compression ignition engine: A step towards cleaner combustion and green environment. <i>Case Studies in Thermal Engineering</i> , 2021, 25, 100911.	5.7	69
8	A study on diesel spray tip penetration and radial expansion under reacting conditions. <i>Applied Thermal Engineering</i> , 2015, 90, 619-629.	6.0	66
9	Bio-oil production from hydrothermal liquefaction of ultrasonic pre-treated <i>Spirulina platensis</i> . <i>Energy Conversion and Management</i> , 2018, 159, 204-212.	9.2	65
10	An experiment study of biomass steam gasification over NiO/Dolomite for hydrogen-rich gas production. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 76-85.	7.1	64
11	Influence of quaternary combinations of biodiesel/methanol/n-octanol/diethyl ether from waste cooking oil on combustion, emission, and stability aspects of a diesel engine. <i>Energy Conversion and Management</i> , 2021, 240, 114268.	9.2	64
12	Study on co-liquefaction of <i>Spirulina</i> and <i>Spartina alterniflora</i> in ethanol-water co-solvent for bio-oil. <i>Energy</i> , 2018, 155, 1093-1101.	8.8	63
13	Experimental study on the effect of nozzle geometry on string cavitation in real-size optical diesel nozzles and spray characteristics. <i>Fuel</i> , 2018, 232, 562-571.	6.4	62
14	Improvement of combustion and emission characteristics of a diesel engine working with diesel/jjoba oil blends and butanol additive. <i>Fuel</i> , 2020, 279, 118433.	6.4	61
15	Enhancing the combustion and emission parameters of a diesel engine fueled by waste cooking oil biodiesel and gasoline additives. <i>Fuel</i> , 2020, 269, 117466.	6.4	61
16	Visual experiment of transient cavitating flow characteristics in the real-size diesel injector nozzle. <i>International Communications in Heat and Mass Transfer</i> , 2016, 78, 13-20.	5.6	60
17	Experimental study of combustion and emission characteristics of diesel engine with diesel/second-generation biodiesel blending fuels. <i>Energy Conversion and Management</i> , 2016, 121, 241-250.	9.2	59
18	A Progress Review on Soot Experiments and Modeling in the Engine Combustion Network (ECN). <i>SAE International Journal of Engines</i> , 0, 9, 883-898.	0.4	58

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19	Effect of low-temperature catalytic hydrothermal liquefaction of <i>Spirulina platensis</i> . <i>Energy</i> , 2020, 190, 116236.	8.8	57
20	Enhancement the combustion aspects of a CI engine working with <i>Jatropha</i> biodiesel/decanol/propanol ternary combinations. <i>Energy Conversion and Management</i> , 2020, 226, 113524.	9.2	57
21	Study of the effect of nozzle hole shape on internal flow and spray characteristics. <i>International Communications in Heat and Mass Transfer</i> , 2016, 71, 1-8.	5.6	54
22	Combustion and emission characteristics of RCEM and common rail diesel engine working with diesel fuel and ethanol/hydrous ethanol injected in the intake and exhaust port: Assessment and comparison. <i>Energy Conversion and Management</i> , 2020, 205, 112453.	9.2	53
23	Effect of acidic, neutral and alkaline conditions on product distribution and biocrude oil chemistry from hydrothermal liquefaction of microalgae. <i>Bioresource Technology</i> , 2018, 270, 129-137.	9.6	48
24	Accelerating the production of bio-oil from hydrothermal liquefaction of microalgae via recycled biochar-supported catalysts. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105321.	6.7	47
25	Combustion and emission characteristics of a rapid compression-expansion machine operated with N-heptanol-methyl oleate biodiesel blends. <i>Renewable Energy</i> , 2020, 147, 2064-2076.	8.9	46
26	An assessment on production and engine characterization of a novel environment-friendly fuel. <i>Fuel</i> , 2020, 279, 118558.	6.4	46
27	An optical study on spray and combustion characteristics of ternary hydrogenated catalytic biodiesel/methanol/n-octanol blends; part Đ: Liquid length and in-flame soot. <i>Energy</i> , 2021, 227, 120543.	8.8	46
28	Hydrothermal liquefaction of fresh lemon-peel: Parameter optimisation and product chemistry. <i>Renewable Energy</i> , 2019, 143, 512-519.	8.9	44
29	Experimental study of spray characteristics of diesel/hydrogenated catalytic biodiesel blended fuels under inert and reacting conditions. <i>Energy</i> , 2018, 153, 349-358.	8.8	42
30	A study of soot quantification in diesel flame with hydrogenated catalytic biodiesel in a constant volume combustion chamber. <i>Energy</i> , 2018, 145, 691-699.	8.8	39
31	Combustion and emission characteristics of gasoline/hydrogenated catalytic biodiesel blends in gasoline compression ignition engines under different loads of double injection strategies. <i>Applied Energy</i> , 2019, 251, 113296.	10.1	39
32	An optical study on spray and combustion characteristics of ternary hydrogenated catalytic biodiesel/methanol/n-octanol blends; part â: Spray morphology, ignition delay, and flame lift-off length. <i>Fuel</i> , 2021, 289, 119762.	6.4	39
33	VIKOR method for ranking concrete bridge repair projects with target-based criteria. <i>Results in Engineering</i> , 2019, 3, 100018.	5.1	38
34	An investigation on gasoline compression ignition (GCI) combustion in a heavy-duty diesel engine using gasoline/hydrogenated catalytic biodiesel blends. <i>Applied Thermal Engineering</i> , 2019, 160, 113952.	6.0	34
35	Hydrothermal liquefaction of microalgae using Fe <sub>3</sub> O <sub>4</sub> nanostructures as efficient catalyst for the production of bio-oil: Optimization of reaction parameters by response surface methodology. <i>Biomass and Bioenergy</i> , 2019, 131, 105417.	5.7	34
36	Experimental study of ignition, lift-off length and emission characteristics of diesel/hydrogenated catalytic biodiesel blends. <i>Applied Energy</i> , 2019, 235, 641-652.	10.1	34

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37	Effects of an injector cooling jacket on combustion characteristics of compressed-ignition sprays with a gasoline-hydrogenated catalytic biodiesel blend. <i>Fuel</i> , 2020, 276, 117947.	6.4	34
38	Current strategies and prospects in algae for remediation and biofuels: An overview. <i>Biocatalysis and Agricultural Biotechnology</i> , 2021, 35, 102045.	3.1	34
39	Microalgae as a multipotential role in commercial applications: Current scenario and future perspectives. <i>Fuel</i> , 2022, 308, 122053.	6.4	34
40	In-flame soot quantification of diesel sprays under sooting/non-sooting critical conditions in an optical engine. <i>Applied Thermal Engineering</i> , 2019, 149, 1-10.	6.0	33
41	Combustion and emission characteristics of a common rail diesel engine run with n-heptanol-methyl oleate mixtures. <i>Energy</i> , 2021, 214, 118972.	8.8	33
42	Hydrothermal liquefaction of fresh lemon-peel and <i>Spirulina platensis</i> blending -operation parameter and biocrude chemistry investigation. <i>Energy</i> , 2020, 193, 116645.	8.8	32
43	Combustion, emission, and phase stability features of a diesel engine fueled by <i>Jatropha</i> /ethanol blends and n-butanol as co-solvent. <i>International Journal of Green Energy</i> , 2020, 17, 793-804.	3.8	32
44	Experimental study on spray and combustion of gasoline/hydrogenated catalytic biodiesel blends in a constant volume combustion chamber aimed for GCI engines. <i>Fuel</i> , 2019, 253, 129-138.	6.4	31
45	Synergistic bio-oil production from hydrothermal co-liquefaction of <i>Spirulina platensis</i> and $\beta$ -Cellulose. <i>Energy</i> , 2019, 174, 1283-1291.	8.8	31
46	Synergistic effect of hydrothermal Co-liquefaction of <i>Spirulina platensis</i> and Lignin: Optimization of operating parameters by response surface methodology. <i>Energy</i> , 2020, 201, 117550.	8.8	31
47	Simultaneous capture of liquid length of spray and flame lift-off length for second-generation biodiesel/diesel blended fuel in a constant volume combustion chamber. <i>Fuel</i> , 2017, 189, 260-269.	6.4	30
48	Soot temperature characterization of spray a flames by combined extinction and radiation methodology. <i>Combustion and Flame</i> , 2019, 204, 290-303.	5.2	29
49	Investigation the effect of adding graphene oxide into diesel/higher alcohols blends on a diesel engine performance. <i>International Journal of Green Energy</i> , 2020, 17, 233-253.	3.8	29
50	Experimental study of combustion and emission characteristics of gasoline compression ignition (GCI) engines fueled by gasoline-hydrogenated catalytic biodiesel blends. <i>Energy</i> , 2019, 187, 115931.	8.8	27
51	Combustion and emission characteristics of Jojoba biodiesel-jet A1 mixtures applying a lean premixed pre-vaporized combustion techniques: An experimental investigation. <i>Renewable Energy</i> , 2020, 162, 2227-2245.	8.9	27
52	Optical study on characteristics of non-reacting and reacting diesel spray with different strategies of split injection. <i>International Journal of Engine Research</i> , 2019, 20, 606-623.	2.3	26
53	LES investigations on effects of the residual bubble on the single hole diesel injector jet. <i>International Journal of Heat and Mass Transfer</i> , 2017, 112, 18-27.	4.8	24
54	Combustion characteristics of a diesel engine running with Mandarin essential oil -diesel mixtures and propanol additive under different exhaust gas recirculation: Experimental investigation and numerical simulation. <i>Case Studies in Thermal Engineering</i> , 2021, 26, 101100.	5.7	24

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55	Experimental study the effect of injection strategies on combustion and emission characteristics in gasoline compression ignition engines using gasoline/hydrogenated catalytic biodiesel blends. <i>Fuel</i> , 2020, 278, 118156.	6.4	21
56	Experimental study on in-flame soot formation and soot emission characteristics of gasoline/hydrogenated catalytic biodiesel blends. <i>Fuel</i> , 2021, 289, 119813.	6.4	21
57	Visual experimental investigations of string cavitation and residual bubbles in the diesel nozzle and effects on initial spray structures. <i>International Journal of Engine Research</i> , 2020, 21, 437-447.	2.3	20
58	Experimental and analytical study on capture spray liquid penetration and combustion characteristics simultaneously with Hydrogenated Catalytic Biodiesel/Diesel blended fuel. <i>Applied Energy</i> , 2018, 226, 947-956.	10.1	18
59	Optical experiment and Large Eddy Simulation on effects of in-nozzle stagnant air bubbles and diesel on near-nozzle spray structure variation in diesel injector. <i>Fuel</i> , 2019, 255, 115721.	6.4	18
60	Effects of nozzle geometries and needle lift on steadier string cavitation and larger spray angle in common rail diesel injector. <i>International Journal of Engine Research</i> , 2021, 22, 2673-2688.	2.3	18
61	Combustion and emissions aspects of a diesel engine working with sheep fat oil biodiesel-diesel blends. <i>Case Studies in Thermal Engineering</i> , 2021, 26, 101162.	5.7	18
62	Study on hydrothermal liquefaction of spirulina platensis using biochar based catalysts to produce bio-oil. <i>Energy</i> , 2021, 230, 120733.	8.8	18
63	Simultaneous study on spray liquid length, ignition and combustion characteristics of diesel and hydrogenated catalytic biodiesel in a constant volume combustion chamber. <i>Renewable Energy</i> , 2019, 140, 761-771.	8.9	16
64	Numerical investigation of transient hole-to-hole variation in cavitation regimes inside a multi-hole diesel nozzle. <i>Fuel</i> , 2021, 287, 119457.	6.4	15
65	Investigations on interactions between vortex flow and the induced string cavitation characteristics in real-size diesel tapered-hole nozzles. <i>Fuel</i> , 2021, 287, 119535.	6.4	15
66	A numerical study of the effects of injection rate shape on combustion and emission of diesel engines. <i>Thermal Science</i> , 2014, 18, 67-78.	1.1	14
67	Soot Quantification of Single-Hole Diesel Sprays by Means of Extinction Imaging. <i>SAE International Journal of Engines</i> , 0, 8, 2068-2077.	0.4	14
68	Experimental and modeling study of the autoignition characteristics of gasoline/hydrogenated catalytic biodiesel blends over low-to-intermediate temperature. <i>Fuel</i> , 2022, 313, 122919.	6.4	14
69	Experimental Studies on Combustion and Microexplosion Characteristics of <i>n</i> -Alkane Droplets. <i>Energy &amp; Fuels</i> , 2020, 34, 16613-16623.	5.1	12
70	Experimental investigations into the effects of string cavitation on diesel nozzle internal flow and near field spray dynamics under different injection control strategies. <i>Fuel</i> , 2022, 309, 122021.	6.4	12
71	Catalytic co-pyrolysis of macroalgal components with lignocellulosic biomass for enhanced biofuels and high-valued chemicals. <i>International Journal of Energy Research</i> , 2022, 46, 2674-2697.	4.5	12
72	Study on effect of fuel injection strategy on combustion noise and exhaust emission of diesel engine. <i>Thermal Science</i> , 2013, 17, 81-90.	1.1	11

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73	Optical experimental study on cavitation development with different patterns in diesel injector nozzles at different fuel temperatures. <i>Experiments in Fluids</i> , 2020, 61, 1.	2.4	11
74	VISUALIZATION INVESTIGATIONS OF FLOW REGIMES IN DIFFERENT SIZES OF DIESEL INJECTOR NOZZLES AND THEIR EFFECTS ON SPRAY. <i>Atomization and Sprays</i> , 2018, 28, 547-563.	0.8	10
75	Effects of injection rate on combustion and emissions of a pilot ignited direct injection natural gas engine. <i>Journal of Mechanical Science and Technology</i> , 2017, 31, 1969-1978.	1.5	9
76	An Experimental Study on Diesel Spray Injection into a Non-Quiescent Chamber. <i>SAE International Journal of Fuels and Lubricants</i> , 0, 10, 394-406.	0.2	9
77	Effect of diesel/gasoline/HCB blends and temperature on string cavitating flow in common-rail injector nozzle. <i>Fuel</i> , 2021, 304, 121402.	6.4	8
78	Study on the combustion process and work capacity of a micro free-piston engine. <i>Journal of Mechanical Science and Technology</i> , 2015, 29, 4993-5000.	1.5	7
79	Bio-Slag High-Temperature Corrosion on an Alumina Refractory under the Reducing Environment. <i>Energy &amp; Fuels</i> , 2021, 35, 3867-3877.	5.1	7
80	Biofuel versus fossil fuel. , 2022, , 181-193.		7
81	Experimental study into the effects of stability between multiple injections on the internal flow and near field spray dynamics of a diesel nozzle. <i>Energy</i> , 2022, 248, 123490.	8.8	7
82	Improving diesel engine performance using carbon nanomaterials. , 2020, , 77-103.		6
83	Optical investigations of nozzle geometrical and dynamic factors on formation and development characteristics of string cavitation with large-scale diesel tapered-hole nozzles. <i>International Journal of Engine Research</i> , 2021, 22, 3147-3163.	2.3	5
84	Impacts of octanol and decanol addition on the solubility of methanol/hydrous methanol/diesel/biodiesel/Jet A-1 fuel ternary mixtures. <i>RSC Advances</i> , 2021, 11, 18213-18224.	3.6	5
85	Numerical investigation of dual-fuel direct injection on RCCI combustion performance at low load condition. <i>Journal of Mechanical Science and Technology</i> , 2021, 35, 4247-4259.	1.5	5
86	In-flame soot quantification of N-Hexadecane droplets using diffused back-illumination extinction imaging. <i>Case Studies in Thermal Engineering</i> , 2022, 30, 101699.	5.7	5
87	Synergistic effect of hydrothermal co-liquefaction of <i>Camellia oleifera</i> Abel and <i>Spirulina platensis</i> : Parameters optimization and product characteristics. <i>Renewable Energy</i> , 2022, 186, 26-34.	8.9	5
88	Effect of nozzle hole size coupling with exhaust gas re-circulation on the engine emission performance based on KH-ACT spray model. <i>Thermal Science</i> , 2015, 19, 2003-2012.	1.1	4
89	Investigation of effect of nozzle geometry on spray with a 3-D Eulerian-Lagrangian spray model coupled with the nozzle cavitating flow. <i>Thermal Science</i> , 2018, 22, 1239-1248.	1.1	4
90	A numerical investigation of gasoline/diesel direct dual fuel stratification (DDFS) combustion at high loads. <i>Fuel</i> , 2022, 312, 122751.	6.4	4

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91	Effects of injection strategies coupled with gasoline-hydrogenated catalytic biodiesel blends on combustion and emission characteristics in GCI engine under low loads. <i>Fuel</i> , 2022, 317, 123490.	6.4	4
92	Catalytic hydrothermal liquefaction of <i>Spirulina platensis</i> : Focusing on aqueous phase characterization. <i>International Journal of Energy Research</i> , 2019, 43, 7135.	4.5	3
93	Numerical investigation of the effect of fuel concentration stratification on gasoline compression ignition combustion under low-to-medium load conditions. <i>Fuel</i> , 2021, 289, 119957.	6.4	3
94	Optical experiments of string cavitation in diesel injector tapered nozzles. <i>Thermal Science</i> , 2020, 24, 193-201.	1.1	3
95	A numerical study on the in-nozzle cavitating flow and near-field atomization of cylindrical, V-type, and Y-type intersecting hole nozzles using the LES-VOF method. <i>Green Processing and Synthesis</i> , 2022, 11, 129-142.	3.4	3
96	Research on heat transfer characteristics and borehole field layout of ground heat exchangers to alleviate thermal accumulation with groundwater advection. <i>Thermal Science</i> , 2021, 25, 2781-2794.	1.1	2
97	Thermochemical conversion of algal biomass. , 2022, , 281-302.		2
98	Experimental study on the gas jet characteristics of a diesel-piloted direct-injection natural gas engine. <i>Journal of Mechanical Science and Technology</i> , 2021, 35, 1279-1288.	1.5	1
99	Multiple-objective optimization of heavy-duty compression ignition engine fueled by gasoline/hydrogenated catalytic biodiesel blends at low loads. <i>International Journal of Engine Research</i> , 0, , 146808742110422.	2.3	1
100	A numerical study on the effects of bowl and nozzle geometry on performances of an engine fueled with diesel or bio-diesel fuels. <i>Green Processing and Synthesis</i> , 2022, 11, 709-723.	3.4	1
101	Molecular dynamics investigation of the vaporization characteristics of <i>n</i> -alkane blended fuels under different ambient conditions. <i>AIP Advances</i> , 2022, 12, 075309.	1.3	0