

Dong Han

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3517635/publications.pdf>

Version: 2024-02-01

87
papers

2,019
citations

331670

21
h-index

276875

41
g-index

88
all docs

88
docs citations

88
times ranked

1439
citing authors

#	ARTICLE	IF	CITATIONS
1	Fuel design and management for the control of advanced compression-ignition combustion modes. <i>Progress in Energy and Combustion Science</i> , 2011, 37, 741-783.	31.2	462
2	Premixed low-temperature combustion of blends of diesel and gasoline in a high speed compression ignition engine. <i>Proceedings of the Combustion Institute</i> , 2011, 33, 3039-3046.	3.9	142
3	Attainment and Load Extension of High-Efficiency Premixed Low-Temperature Combustion with Dieseline in a Compression Ignition Engine. <i>Energy & Fuels</i> , 2010, 24, 3517-3525.	5.1	95
4	Structural and Biochemical Characterization Reveals LysGH15 as an Unprecedented ‘Hand-Like’ Calcium-Binding Phage Lysin. <i>PLoS Pathogens</i> , 2014, 10, e1004109.	4.7	85
5	Experimental study on compound HCCI (homogenous charge compression ignition) combustion fueled with gasoline and diesel blends. <i>Energy</i> , 2014, 64, 707-718.	8.8	78
6	A new methodology for diesel surrogate fuel formulation: Bridging fuel fundamental properties and real engine combustion characteristics. <i>Energy</i> , 2018, 148, 424-447.	8.8	76
7	An experimental study of injection and spray characteristics of diesel and gasoline blends on a common rail injection system. <i>Energy</i> , 2014, 75, 513-519.	8.8	41
8	Chemical Mechanism of Exhaust Gas Recirculation on Polycyclic Aromatic Hydrocarbons Formation Based on Laser-Induced Fluorescence Measurement. <i>Energy & Fuels</i> , 2018, 32, 7112-7124.	5.1	39
9	Combustion and emissions of isomeric butanol/gasoline surrogates blends on an optical GDI engine. <i>Fuel</i> , 2020, 272, 117690.	6.4	39
10	Experimental study on injection characteristics of fatty acid esters on a diesel engine common rail system. <i>Fuel</i> , 2014, 123, 19-25.	6.4	38
11	Long-term system load forecasting based on data-driven linear clustering method. <i>Journal of Modern Power Systems and Clean Energy</i> , 2018, 6, 306-316.	5.4	36
12	Octane rating effects of direct injection fuels on dual fuel HCCI-DI stratified combustion mode with port injection of n-heptane. <i>Energy</i> , 2016, 111, 1003-1016.	8.8	33
13	Macroscopic and microscopic spray characteristics of fatty acid esters on a common rail injection system. <i>Fuel</i> , 2017, 203, 370-379.	6.4	32
14	Numerical study on fuel physical effects on the split injection processes on a common rail injection system. <i>Energy Conversion and Management</i> , 2017, 134, 47-58.	9.2	31
15	Experimental and modeling validation of a large diesel surrogate: Autoignition in heated rapid compression machine and oxidation in flow reactor. <i>Combustion and Flame</i> , 2019, 202, 195-207.	5.2	29
16	Autoignition of <i>n</i> -Hexane, Cyclohexane, and Methylcyclohexane in a Constant Volume Combustion Chamber. <i>Energy & Fuels</i> , 2019, 33, 3576-3583.	5.1	27
17	Influences of isomeric butanol addition on anti-knock tendency of primary reference fuel and toluene primary reference fuel gasoline surrogates. <i>International Journal of Engine Research</i> , 2021, 22, 39-49.	2.3	27
18	Experimental study of the two-stage injection process of fatty acid esters on a common rail injection system. <i>Fuel</i> , 2016, 163, 214-222.	6.4	25

#	ARTICLE	IF	CITATIONS
19	Laminar flame propagation and nonpremixed stagnation ignition of toluene and xylenes. Proceedings of the Combustion Institute, 2017, 36, 479-489.	3.9	24
20	Exergy losses in auto-ignition processes of DME and alcohol blends. Fuel, 2018, 229, 116-125.	6.4	24
21	Hydrolyzed polyacrylamide biotransformation in an up-flow anaerobic sludge blanket reactor system: key enzymes, functional microorganisms, and biodegradation mechanisms. Bioprocess and Biosystems Engineering, 2019, 42, 941-951.	3.4	24
22	Impact of Short-Range Clustering on the Multistage Work-Hardening Behavior in Cu-Ni Alloys. Metals, 2019, 9, 151.	2.3	22
23	Second-law thermodynamic analysis for premixed hydrogen flames with diluents of argon/nitrogen/carbon dioxide. International Journal of Hydrogen Energy, 2019, 44, 5020-5029.	7.1	21
24	Size evolution of soot particles from gasoline and n-heptane/toluene blend in a burner stabilized stagnation flame. Fuel, 2017, 203, 135-144.	6.4	20
25	Effect of mixing methane, ethane, propane and ethylene on the soot particle size distribution in a premixed propene flame. Combustion and Flame, 2018, 193, 54-60.	5.2	20
26	Autoignition of n-heptane and butanol isomers blends in a constant volume combustion chamber. Fuel, 2019, 254, 115638.	6.4	20
27	Experimental study on dual-fuel compound homogeneous charge compression ignition combustion. International Journal of Engine Research, 2013, 14, 23-33.	2.3	19
28	Experimental study on the two stage injection of diesel and gasoline blends on a common rail injection system. Fuel, 2015, 159, 470-475.	6.4	18
29	Nozzle effects on the injection characteristics of diesel and gasoline blends on a common rail system. Energy, 2018, 153, 223-230.	8.8	18
30	Analysis of exergy losses in laminar premixed flames of methane/hydrogen blends. International Journal of Hydrogen Energy, 2019, 44, 24043-24053.	7.1	18
31	Cetane number prediction for hydrocarbons from molecular structural descriptors based on active subspace methodology. Fuel, 2019, 249, 1-7.	6.4	18
32	Dilution, Thermal, and Chemical Effects of Carbon Dioxide on the Exergy Destruction in n-Heptane and Iso-octane Autoignition Processes: A Numerical Study. Energy & Fuels, 2018, 32, 5559-5570.	5.1	17
33	Second-Law Thermodynamic Analysis in Premixed Flames of Ammonia and Hydrogen Binary Fuels. Journal of Engineering for Gas Turbines and Power, 2019, 141, .	1.1	17
34	A comparative study on soot particle size distributions in premixed flames of RP-3 jet fuel and its surrogates. Fuel, 2020, 259, 116222.	6.4	17
35	Rural-Spatial Restructuring Promoted by Land-Use Transitions: A Case Study of Zhulin Town in Central China. Land, 2021, 10, 234.	2.9	17
36	Numerical study on explosion limits of ammonia/hydrogen/oxygen mixtures: Sensitivity and eigenvalue analysis. Fuel, 2021, 300, 120964.	6.4	17

#	ARTICLE	IF	CITATIONS
37	A six-component surrogate of diesel from direct coal liquefaction for spray analysis. <i>Fuel</i> , 2018, 234, 1259-1268.	6.4	16
38	Exergy loss characteristics of DME/air and ethanol/air mixtures with temperature and concentration fluctuations under HCCI/SCCI conditions: A DNS study. <i>Combustion and Flame</i> , 2021, 226, 334-346.	5.2	15
39	Autoignition Comparison of <i>n</i> -Dodecane/Benzene and <i>n</i> -Dodecane/Toluene Blends in a Constant Volume Combustion Chamber. <i>Energy & Fuels</i> , 2019, 33, 5647-5654.	5.1	13
40	Effects of butanol blending on spray auto-ignition of gasoline surrogate fuels. <i>Fuel</i> , 2020, 260, 116368.	6.4	13
41	Evaluating the impact of smart grid technologies on generation expansion planning under uncertainties. <i>International Transactions on Electrical Energy Systems</i> , 2016, 26, 934-951.	1.9	11
42	Hydraulic dynamics in split fuel injection on a common rail system and their artificial neural network prediction. <i>Fuel</i> , 2019, 255, 115792.	6.4	11
43	Numerical study on exergy losses of iso-octane constant-volume combustion with water addition. <i>Fuel</i> , 2019, 248, 127-135.	6.4	11
44	The synthesis and characterization of glutathione-modified superparamagnetic iron oxide nanoparticles and their distribution in rat brains after injection in substantia nigra. <i>Journal of Materials Science: Materials in Medicine</i> , 2019, 30, 5.	3.6	11
45	MicroRNA-23a suppresses the apoptosis of inflammatory macrophages and foam cells in atherogenesis by targeting HSP90. <i>Gene</i> , 2020, 729, 144319.	2.2	11
46	Prediction of Standard Enthalpies of Formation Based on Hydrocarbon Molecular Descriptors and Active Subspace Methodology. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 4785-4791.	3.7	11
47	Influence of Fuel Supply Timing and Mixture Preparation on the Characteristics of Stratified Charge Compression Ignition Combustion with N-Heptane Fuel. <i>Combustion Science and Technology</i> , 2009, 181, 1327-1344.	2.3	10
48	Applicability of high dimensional model representation correlations for ignition delay times of n-heptane/air mixtures. <i>Frontiers in Energy</i> , 2019, 13, 367-376.	2.3	10
49	An experimental study on spray auto-ignition of RP-3 jet fuel and its surrogates. <i>Frontiers in Energy</i> , 2021, 15, 396-404.	2.3	10
50	Combustion and emissions of RP-3 jet fuel and diesel fuel in a single-cylinder diesel engine. <i>Frontiers in Energy</i> , 2023, 17, 664-677.	2.3	10
51	Dilution, Thermal and Chemical Effects of Carbon Dioxide on n-heptane Two-Stage Auto-Ignition Process. , 0, , .		9
52	Active fuel designâ€”A way to manage the right fuel for HCCI engines. <i>Frontiers in Energy</i> , 2016, 10, 14-28.	2.3	9
53	An experimental and modeling study on the low-temperature oxidation of methylcyclopentane in a jet-stirred reactor. <i>Fuel</i> , 2021, 293, 120374.	6.4	9
54	Synthesis and properties of fluorinated <i>benzotriazole</i> -based donor-acceptor type conjugated polymers via <i>Pd</i> -catalyzed direct <i>CiH</i> / <i>CiH</i> coupling polymerization. <i>Journal of Polymer Science</i> , 2021, 59, 240-250.	3.8	9

#	ARTICLE	IF	CITATIONS
55	Effects of Exhaust Gas Recirculation Constituents on Methyl Decanoate Auto-Ignition: A Kinetic Study. <i>Journal of Engineering for Gas Turbines and Power</i> , 2018, 140, .	1.1	8
56	Effects of mechanism reduction on the exergy losses analysis in n-heptane autoignition processes. <i>International Journal of Engine Research</i> , 2020, 21, 1764-1777.	2.3	8
57	Effects of fuel combination and IVO timing on combustion and emissions of a dual-fuel HCCI combustion engine. <i>Frontiers in Energy</i> , 2020, 14, 778-789.	2.3	8
58	Gasoline octane number prediction from near-infrared spectroscopy with an ANN-based model. <i>Fuel</i> , 2022, 318, 123543.	6.4	8
59	Second-law thermodynamic analysis on non-premixed counterflow methane flames with hydrogen addition. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 139, 2577-2583.	3.6	7
60	Size Distribution of Soot Particles in Premixed <i>n</i> -Heptane and Methylcyclohexane Flames. <i>Energy & Fuels</i> , 2018, 32, 3883-3890.	5.1	6
61	Exergy losses in premixed flames of dimethyl ether and hydrogen blends. <i>Frontiers in Energy</i> , 2019, 13, 658-666.	2.3	6
62	Size Distribution of Nascent Soot in Premixed <i>n</i> -Hexane, Cyclohexane, and Methylcyclohexane Flames. <i>Energy & Fuels</i> , 2019, 33, 5740-5748.	5.1	6
63	A strategy for iron oxide nanoparticles to adhere to the neuronal membrane in the substantia nigra of mice. <i>Journal of Materials Chemistry B</i> , 2020, 8, 758-766.	5.8	6
64	Spray Auto-ignition Behaviors of Diesel and Jet Fuel at Reduced Oxygen Environments. <i>Combustion Science and Technology</i> , 2020, , 1-15.	2.3	6
65	Soot particle size distributions in premixed flames of RP-3 jet fuel and its distillates. <i>Fuel</i> , 2020, 267, 117244.	6.4	6
66	Influences of C5 esters addition on anti-knock and auto-ignition tendency of a gasoline surrogate fuel. <i>International Journal of Engine Research</i> , 2022, 23, 1782-1791.	2.3	6
67	Effects of branch structure of alkylbenzenes on spray auto-ignition of <i>n</i> -decane and alkylbenzenes blends. <i>International Journal of Engine Research</i> , 2021, 22, 1636-1651.	2.3	5
68	Fuel octane number prediction based on topological indices and active subspace method. <i>Fuel</i> , 2021, 293, 120494.	6.4	4
69	Numerical study on the physical and chemical processes in n-decane spray ignition. <i>Chemical Engineering Science</i> , 2021, 241, 116716.	3.8	4
70	An experimental and modeling study on polyoxymethylene dimethyl ether 3 (PODE3) oxidation in a jet stirred reactor. <i>Fundamental Research</i> , 2022, 2, 738-747.	3.3	4
71	Attachment of streptavidin-modified superparamagnetic iron oxide nanoparticles to the PC-12 cell membrane. <i>Biomedical Materials (Bristol)</i> , 2020, 15, 045014.	3.3	4
72	The influence of spatial interfaces on rural economic restructuring in rapidly industrializing areas: A case study of Gongyi city in central China. <i>Growth and Change</i> , 0, , .	2.6	4

#	ARTICLE	IF	CITATIONS
73	1,2-Dimyristoyl-sn-glycero-3-phosphocholine promotes the adhesion of nanoparticles to bio-membranes and transport in rat brain. RSC Advances, 2021, 11, 35455-35462.	3.6	4
74	Comparative Study on Spray Auto-Ignition of Di-n-Butyl Ether and Diesel Blends at Engine-Like Conditions. Journal of Energy Resources Technology, Transactions of the ASME, 2021, 143, .	2.3	4
75	Soot size distribution in lightly sooting premixed flames of benzene and toluene. Frontiers in Energy, 2020, 14, 18-26.	2.3	3
76	A robust optimization approach to evaluate the impact of smart grid technologies on generation plans. , 2014, , .		2
77	Recent progress and challenges in process optimization: Review of recent work at ECUST. Canadian Journal of Chemical Engineering, 2018, 96, 2115-2123.	1.7	2
78	Application of Active Subspace Method in Gas Exchange Strategy Calibration on a Variable Valve Timing Gasoline Engine. Journal of Engineering for Gas Turbines and Power, 2020, 142, .	1.1	2
79	Development and Production of High Rate MRPC for CBM TOF. , 2019, , .		2
80	Theoretical study on isomerization, decomposition and ring-closure reaction kinetics of methyl pentanoate radicals. Combustion and Flame, 2022, 237, 111848.	5.2	2
81	Elesesterpenes A: Lupane-type Triterpenoids From the Leaves of Eleutherococcus sessiliflorus. Frontiers in Chemistry, 2021, 9, 813764.	3.6	2
82	Effects of equivalence ratio and carbon dioxide concentration on premixed charge compression ignition of gasoline and diesel-like fuel blends. Journal of Mechanical Science and Technology, 2013, 27, 2507-2512.	1.5	1
83	Risk assessment model for wind power integrated power systems using conditional value-at-risk. , 2014, , .		1
84	Pressure-Based Approach to Estimating the Injection Start and End in Single and Split Common Rail Injection Processes. Journal of Shanghai Jiaotong University (Science), 2018, 23, 28-33.	0.9	1
85	Second-law thermodynamic analysis on premixed syngas flames. International Journal of Exergy, 2020, 32, 174.	0.4	1
86	Spatiotemporal Evolution of Specialized Villages in the Yellow River Basin and Its Influencing Factors. Papers in Applied Geography, 0, , 1-18.	1.4	1
87	An analytical method for quantitative reconstruction of X-ray fluorescence computed tomography with attenuation correction. , 2015, , .		0