

Hua Zhao

List of Publications by Year in descending order

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79
papers

2,206
citations

361413
20
h-index

289244
40
g-index

79
all docs

79
docs citations

79
times ranked

2176
citing authors

#	ARTICLE	IF	CITATIONS
1	DNA assembler, an in vivo genetic method for rapid construction of biochemical pathways. <i>Nucleic Acids Research</i> , 2009, 37, e16-e16.	14.5	568
2	Understanding the Effects of Recycled Burnt Gases on the Controlled Autoignition (CAI) Combustion in Four-Stroke Gasoline Engines. , 0, , .		99
3	Combustion and emission characteristics of a HCCI engine fuelled with n-butanol/gasoline blends. <i>Fuel</i> , 2013, 108, 668-674.	6.4	97
4	Experimental analysis of ethanol dual-fuel combustion in a heavy-duty diesel engine: An optimisation at low load. <i>Applied Energy</i> , 2016, 165, 166-182.	10.1	78
5	Combustion and emission characteristics of a n-butanol HCCI engine. <i>Fuel</i> , 2014, 115, 758-764.	6.4	72
6	Comparison of combustion characteristics of n-butanol/ethanol/gasoline blends in a HCCI engine. <i>Energy Conversion and Management</i> , 2015, 95, 101-109.	9.2	71
7	Performance and economic analysis of a direct injection spark ignition engine fueled with wet ethanol. <i>Applied Energy</i> , 2016, 169, 230-239.	10.1	64
8	Effects of Oxygen Content of Fuels on Combustion and Emissions of Diesel Engines. <i>Energies</i> , 2016, 9, 28.	3.1	56
9	Exploring the mid-load potential of ethanol-diesel dual-fuel combustion with and without EGR. <i>Applied Energy</i> , 2017, 193, 263-275.	10.1	55
10	Effect of air dilution and effective compression ratio on the combustion characteristics of a HCCI (homogeneous charge compression ignition) engine fuelled with n-butanol. <i>Energy</i> , 2015, 85, 296-303.	8.8	49
11	An Extremely Simple and Effective Colony PCR Procedure for Bacteria, Yeasts, and Microalgae. <i>Applied Biochemistry and Biotechnology</i> , 2013, 169, 695-700.	2.9	48
12	Quantitative investigation of soot distribution by laser-induced incandescence. <i>Applied Optics</i> , 2000, 39, 5012.	2.1	47
13	Comparison of HCCI Combustion Respectively Fueled with Gasoline, Ethanol and Methanol through the Trapped Residual Gas Strategy. , 0, , .		47
14	Evaluating the EGR-AFR Operating Range of a HCCI Engine. , 2005, , .		40
15	Effect of piston shapes and fuel injection strategies on stoichiometric stratified flame ignition (SFI) hybrid combustion in a PFI/DI gasoline engine by numerical simulations. <i>Energy Conversion and Management</i> , 2015, 98, 387-400.	9.2	39
16	Improved acid tolerance of <i>Lactobacillus pentosus</i> by error-prone whole genome amplification. <i>Bioresource Technology</i> , 2013, 135, 459-463.	9.6	38
17	A study of mechanical variable valve operation with gasoline/alcohol fuels in a spark ignition engine. <i>Fuel</i> , 2013, 106, 802-813.	6.4	36
18	Investigation on gasoline homogeneous charge compression ignition (HCCI) combustion implemented by residual gas trapping combined with intake preheating through waste heat recovery. <i>Energy Conversion and Management</i> , 2014, 86, 8-19.	9.2	29

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19	Application of a hybrid breakup model for the spray simulation of a multi-hole injector used for a DISI gasoline engine. <i>Applied Thermal Engineering</i> , 2014, 65, 282-292.	6.0	28
20	High load performance and combustion analysis of a four-valve direct injection gasoline engine running in the two-stroke cycle. <i>Applied Energy</i> , 2015, 159, 117-131.	10.1	28
21	Study of SI-HCCI-SI Transition on a Port Fuel Injection Engine Equipped with 4VVAS. , 2007, , .		23
22	Screened Butanol-Tolerant <i>Enterococcus faecium</i> Capable of Butanol Production. <i>Applied Biochemistry and Biotechnology</i> , 2012, 168, 1672-1680.	2.9	23
23	A comparison of butanol and ethanol flame development in an optical spark ignition engine. <i>Fuel</i> , 2016, 170, 27-38.	6.4	23
24	The Combustion and Emission Characteristics of Ethanol on a Port Fuel Injection HCCI Engine. , 2006, , .		22
25	Experimental investigation of direct injection charge cooling in optical GDI engine using tracer-based PLIF technique. <i>Experimental Thermal and Fluid Science</i> , 2014, 59, 96-108.	2.7	21
26	Numerical Study of the Effect of Piston Shapes and Fuel Injection Strategies on In-Cylinder Conditions in a PFI/GDI Gasoline Engine. <i>SAE International Journal of Engines</i> , 0, 7, 1888-1899.	0.4	20
27	The Effect of Spark Ignition on the CAI Combustion Operation. , 0, , .		18
28	Control Strategies for Steady and Transient Operation of a 4-Stroke Gasoline Engine with CAI Combustion Using a 4-Variable Valve Actuating System (4VVAS). , 0, , .		18
29	Investigation of Early and Late Intake Valve Closure Strategies for Load Control in a Spark Ignition Ethanol Engine. <i>SAE International Journal of Engines</i> , 0, 10, 858-872.	0.4	18
30	Analysis of cyclic variations during mode switching between spark ignition and controlled auto-ignition combustion operations. <i>International Journal of Engine Research</i> , 2015, 16, 356-365.	2.3	17
31	Effect of an ORC Waste Heat Recovery System on Diesel Engine Fuel Economy for Off-Highway Vehicles. , 0, , .		17
32	Effect of Injection Timing on Mixture and CAI Combustion in a GDI Engine with an Air-Assisted Injector. , 0, , .		16
33	Effect of the thermal stratification on SI-CAI hybrid combustion in a gasoline engine. <i>Applied Thermal Engineering</i> , 2013, 61, 451-460.	6.0	16
34	Computational study of the influence of in-cylinder flow on spark ignition- controlled auto-ignition hybrid combustion in a gasoline engine. <i>International Journal of Engine Research</i> , 2015, 16, 795-809.	2.3	16
35	Effect of dilution strategies and direct injection ratios on stratified flame ignition (SFI) hybrid combustion in a PFI/DI gasoline engine. <i>Applied Energy</i> , 2016, 165, 801-814.	10.1	16
36	Metabolic engineering of <i>Escherichia coli</i> for acetaldehyde overproduction using pyruvate decarboxylase from <i>Zymomonas mobilis</i> . <i>Enzyme and Microbial Technology</i> , 2018, 109, 58-65.	3.2	16

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37	A Combustion Heat Release Correlation for CAI Combustion Simulation in 4-Stroke Gasoline Engines. , 2005, , .		15
38	Analysis of Controlled Auto-Ignition/HCCI Combustion in a Direct Injection Gasoline Engine with Single and Split Fuel Injections. Combustion Science and Technology, 2007, 180, 176-205.	2.3	15
39	Increase of ethanol tolerance of <i>Saccharomyces cerevisiae</i> by error-prone whole genome amplification. Biotechnology Letters, 2011, 33, 1007-1011.	2.2	15
40	Accumulated lipids rather than the rigid cell walls impede the extraction of genetic materials for effective colony PCRs in <i>Chlorella vulgaris</i> . Microbial Cell Factories, 2013, 12, 106.	4.0	14
41	Combustion and emission characteristics of alcohol fuels in a CAI engine. Fuel, 2013, 104, 386-397.	6.4	14
42	Low-Temperature Combustion Characteristics of a <i>n</i> -Butanol/Isooctane HCCI Engine. Energy & Fuels, 2014, 28, 4183-4192.	5.1	14
43	Investigations into the Influence of Dimethyl Ether Micro Flame Ignition on the Combustion and Cyclic Variation Characteristics of Flame Propagation/Auto-Ignition Hybrid Combustion in an Optical Engine. Combustion Science and Technology, 2017, 189, 453-477.	2.3	13
44	Alcohol tolerance of <i>Escherichia coli</i> <i>acrR</i> and <i>marR</i> regulatory mutants. Journal of Molecular Catalysis B: Enzymatic, 2012, 76, 89-93.	1.8	12
45	Inert-droplet and combustion effects on turbulence in a diluted diffusion flame. Combustion and Flame, 2013, 160, 366-383.	5.2	12
46	CAI Combustion with Methanol and Ethanol in an Air-Assisted Direct Injection SI Engine. , 2008, , .		11
47	Synergy between Boost and Valve Timings in a Highly Boosted Direct Injection Gasoline Engine Operating with Miller Cycle. , 0, , .		11
48	Investigation of the HCCI/CAI Combustion Process by 2-D PLIF Imaging of Formaldehyde. , 2004, , .		10
49	2-Stroke CAI Combustion Operation in a GDI Engine with Poppet Valves. , 2012, , .		10
50	An Experimental Study on HCCI Combustion in a Four-Stroke Gasoline Engine with Reduced Valve Lift Operations. , 0, , .		8
51	Furfural and hydroxymethylfurfural tolerance in <i>Escherichia coli</i> $\hat{1}$ <i>acrR</i> regulatory mutants. Biotechnology and Applied Biochemistry, 2015, 62, 32-36.	3.1	8
52	Parametric Study on CAI Combustion in a GDI Engine with an Air-Assisted Injector. , 2007, , .		7
53	In-cylinder Studies of Fuel Injection and Combustion from a Narrow Cone Fuel Injector in a High Speed Single Cylinder Optical Engine. , 2008, , .		7
54	Cloning, overexpression, purification, and site-directed mutagenesis of xylitol-2-dehydrogenase from <i>Candida albicans</i> . Journal of Molecular Catalysis B: Enzymatic, 2010, 62, 40-45.	1.8	7

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55	A simple and efficient mild air hybrid engine concept and its performance analysis. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2013, 227, 120-136.	1.9	7
56	Transcriptomic Analysis of 3-Hydroxypropanoic Acid Stress in Escherichia coli. Applied Biochemistry and Biotechnology, 2016, 178, 527-543.	2.9	7
57	Effects of Ignition Timing on CAI Combustion in a Multi-Cylinder DI Gasoline Engine. , 0, , .		6
58	The Performance Characteristics of an Production Oriented Air Hybrid Powertrain. SAE International Journal of Engines, 2010, 3, 609-619.	0.4	6
59	The Effects of Charge Homogeneity and Repeatability on Particulates Using the PLIF Technique in an Optical DISI Engine. SAE International Journal of Engines, 0, 7, 500-518.	0.4	6
60	Optimisation of boosting strategy for controlled auto-ignition combustion in a four-valve camless gasoline direct injection engine running in two-stroke cycle. International Journal of Engine Research, 2014, 15, 850-861.	2.3	6
61	Turbulent flame boundary and structure detection in an optical DISI engine using tracer-based two-line PLIF technique. Experimental Thermal and Fluid Science, 2015, 68, 545-558.	2.7	6
62	Engine Downsizing through Two-Stroke Operation in a Four-Valve GDI Engine. , 2016, , .		6
63	Analysis of the Effect of Intake Plenum Design on the Scavenging Process in a 2-Stroke Boosted Uniflow Scavenged Direct Injection Gasoline (BUSDIG) Engine. , 0, , .		6
64	Metabolic strategies for microbial glycerol overproduction. Journal of Chemical Technology and Biotechnology, 2018, 93, 624-628.	3.2	6
65	Direct In-cylinder CO2 Measurements of Residual Gas in a GDI Engine for Model Validation and HCCI Combustion Development. , 0, , .		5
66	Start-of-injection-based software optimization for consistency between the cylinders in common-rail diesel engines. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2016, 230, 709-720.	1.9	5
67	Size Of Gene Specific Inverted Repeat - Dependent Gene Deletion In Saccharomyces cerevisiae. PLoS ONE, 2013, 8, e72137.	2.5	5
68	Study on Layered Close Loop Control of 4-Stroke Gasoline HCCI Engine Equipped with 4VVAS. , 0, , .		4
69	Performance and emissions of a 4-cylinder gasoline engine with Controlled Auto-Ignition. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2012, 34, 436-440.	1.6	4
70	Excision of Unstable Artificial Gene-Specific Inverted Repeats Mediates Scar-Free Gene Deletions in Escherichia coli. Applied Biochemistry and Biotechnology, 2015, 175, 1858-1867.	2.9	4
71	In silico design of anaerobic growth-coupled product formation in Escherichia coli: experimental validation using a simple polyol, glycerol. Bioprocess and Biosystems Engineering, 2017, 40, 361-372.	3.4	4
72	Studies of the Control of In-cylinder Inhomogeneities in a 4VVAS Gasoline Engine. , 2008, , .		3

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73	Engineering of small sized DNAs by error-prone multiply-primed rolling circle amplification for introduction of random point mutations. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2010, 67, 92-97.	1.8	3
74	The effects of dual-coil ignition and axial swirl on spark-assisted controlled autoignition. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2014, 228, 991-1002.	1.9	3
75	Comparison of Performance, Efficiency and Emissions between Gasoline and E85 in a Two-Stroke Poppet Valve Engine with Lean Boost CAI Operation. , 2015, , .		3
76	Thermal and chemical effects of fuel direct injection on kinetically controlled combustion of alcohol and gasoline fuels. <i>International Journal of Engine Research</i> , 2015, 16, 982-993.	2.3	3
77	Experimental Comparison between Stratified Flame Ignition and Micro Flame Ignition in a Gasoline SI-CAI Hybrid Combustion Engine. , 2017, , .		3
78	Experimental studies of the air hybrid engine charging operation. <i>International Journal of Engine Research</i> , 2015, 16, 925-934.	2.3	2
79	Developing a Fuel Stratification Concept on a Spark Ignition Engines. , 2007, , .		1