

# Hao Chen

## List of Publications by Year in descending order

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Version: 2024-02-01

20  
papers

718  
citations

933447

10  
h-index

1199594

12  
g-index

20  
all docs

20  
docs citations

20  
times ranked

455  
citing authors

#	ARTICLE	IF	CITATIONS
1	A practical guide for using proper orthogonal decomposition in engine research. International Journal of Engine Research, 2013, 14, 307-319.	2.3	128
2	On the use and interpretation of proper orthogonal decomposition of in-cylinder engine flows. Measurement Science and Technology, 2012, 23, 085302.	2.6	106
3	Cycle-to-cycle variation analysis of early flame propagation in engine cylinder using proper orthogonal decomposition. Experimental Thermal and Fluid Science, 2014, 58, 48-55.	2.7	96
4	Analysis of misfires in a direct injection engine using proper orthogonal decomposition. Experiments in Fluids, 2011, 51, 1139-1151.	2.4	69
5	Three-dimensional spray-flow interaction in a spark-ignition direct-injection engine. International Journal of Engine Research, 2016, 17, 129-138.	2.3	49
6	Proper orthogonal decomposition analysis of fuel spray structure variation in a spark-ignition direct-injection optical engine. Experiments in Fluids, 2014, 55, 1.	2.4	40
7	ANALYZING THE CYCLE-TO-CYCLE VARIATIONS OF PULSING SPRAY CHARACTERISTICS BY MEANS OF THE PROPER ORTHOGONAL DECOMPOSITION. Atomization and Sprays, 2013, 23, 623-641.	0.8	31
8	Neural network prediction of cycle-to-cycle power variability in a spark-ignited internal combustion engine. Proceedings of the Combustion Institute, 2019, 37, 4937-4944.	3.9	29
9	Three-Dimensional Three-Component Air Flow Visualization in a Steady-State Engine Flow Bench Using a Plenoptic Camera. SAE International Journal of Engines, 0, 10, 625-635.	0.4	28
10	Experimental Investigation of the Variations of Early Flame Development in a Spark-Ignition Direct-Injection Optical Engine. Journal of Engineering for Gas Turbines and Power, 2014, 136, .	1.1	27
11	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
12	Analyzing In-cylinder Flow Evolution and Variations in a Spark-Ignition Direct-Injection Engine Using Phase-Invariant Proper Orthogonal Decomposition Technique. , 2014, , .		21
13	Investigation of Ethanol Spray From Different DI Injectors by Using Two-Dimensional Laser Induced Exciplex Fluorescence at Potential Cold-Start Condition. , 2010, , .		16
14	A dynamic thresholding technique for extracting the automotive spark-ignition direct-injection pulsing spray characteristics. Journal of Visualization, 2014, 17, 197-209.	1.8	14
15	Human iris three-dimensional imaging at micron resolution by a micro-plenoptic camera. Biomedical Optics Express, 2017, 8, 4514.	2.9	10
16	Study of Time-Resolved Vortex Structure of In-Cylinder Engine Flow Fields Using Proper Orthogonal Decomposition Technique. Journal of Engineering for Gas Turbines and Power, 2015, 137, .	1.1	9
17	Impact of Fuel Sprays on In-Cylinder Flow Length Scales in a Spark-Ignition Direct-Injection Engine. SAE International Journal of Engines, 0, 10, 752-766.	0.4	9
18	Experimental Investigation of the Variations of Early Flame Development in a Spark-Ignition Direct-Injection Optical Engine. , 2013, , .		5

#	ARTICLE	IF	CITATIONS
19	Development of a POD-Based Analysis Approach for Quantitative Comparison of Spray Structure Variations in a Spark-Ignition Direct-Injection Engine. , 2013, , .		4
20	Study of Time-Resolved Vortex Structure of In-Cylinder Engine Flow Fields Using Proper Orthogonal Decomposition Technique. , 2014, , .		1