

Maximilian Wick

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

263
citations

1039880

9
h-index

1058333

14
g-index

24
all docs

24
docs citations

24
times ranked

157
citing authors

#	ARTICLE	IF	CITATIONS
1	Support vector machine based emissions modeling using particle swarm optimization for homogeneous charge compression ignition engine. International Journal of Engine Research, 2023, 24, 536-551.	1.4	13
2	Dynamic measurement with in-cycle process excitation of HCCI combustion: The key to handle complexity of data-driven control?. International Journal of Engine Research, 2023, 24, 1155-1174.	1.4	1
3	A numerical study of the polarization effect of liquid water in the gas diffusion layer of a proton exchange membrane fuel cell. Journal of Power Sources, 2022, 529, 231221.	4.0	4
4	Optimization of the bipolar plate rib structure in proton exchange membrane fuel cells with an analytical method. International Journal of Hydrogen Energy, 2022, 47, 17683-17698.	3.8	5
5	A high-fidelity real-time capable dynamic discretized model of proton exchange membrane fuel cells for the development of control strategies. Journal of Power Sources, 2022, 537, 231394.	4.0	8
6	Ion current-based homogeneous charge compression ignition combustion control using direct water injection. International Journal of Engine Research, 2021, 22, 1825-1837.	1.4	6
7	Detection of transient low-temperature combustion characteristics by ion current – The missing link for homogeneous charge compression ignition control?. Applied Energy, 2021, 283, 116299.	5.1	10
8	Analysis of ion current signal during negative valve overlap of HCCI combustion with high compression ratio. International Journal of Engine Research, 2021, 22, 3300-3312.	1.4	1
9	Development and experimental validation of a real-time capable field programmable gate array-based gas exchange model for negative valve overlap. International Journal of Engine Research, 2020, 21, 421-436.	1.4	24
10	Effects of water addition on the combustion of iso-octane investigated in laminar flames, low-temperature reactors, and an HCCI engine. Combustion and Flame, 2020, 212, 433-447.	2.8	23
11	Homogeneous charge compression ignition combustion stability improvement using a rapid ignition system. International Journal of Engine Research, 2020, 21, 1846-1856.	1.4	14
12	Dynamic measurement of HCCI combustion with self-learning of experimental space limitations. Applied Energy, 2020, 262, 114364.	5.1	11
13	In-cycle control for stabilization of homogeneous charge compression ignition combustion using direct water injection. Applied Energy, 2019, 240, 1061-1074.	5.1	34
14	Development and experimental validation of a field programmable gate array-based in-cycle direct water injection control strategy for homogeneous charge compression ignition combustion stability. International Journal of Engine Research, 2019, 20, 1101-1113.	1.4	16
15	Nonlinear model predictive control of a discrete-cycle gasoline-controlled auto ignition engine model: Simulative analysis. International Journal of Engine Research, 2019, 20, 1025-1036.	1.4	18
16	Reduced Order Modeling for Multi-scale Control of Low Temperature Combustion Engines. Notes on Numerical Fluid Mechanics and Multidisciplinary Design, 2019, , 167-181.	0.2	6
17	Decoupling of consecutive gasoline controlled auto-ignition combustion cycles by field programmable gate array based real-time cylinder pressure analysis. International Journal of Engine Research, 2018, 19, 153-167.	1.4	20
18	Autoregressive modeling of cycle-to-cycle correlations in homogeneous charge compression ignition combustion. International Journal of Engine Research, 2018, 19, 790-802.	1.4	15

#	ARTICLE	IF	CITATIONS
19	In-cycle Control Offers High Potential for New Combustion Concepts. MTZ Worldwide, 2015, 76, 36-41.	0.1	1
20	A Study on In-Cycle Combustion Control for Gasoline Controlled Autoignition. , 0, , .		14
21	Fuel Cell System Development: A Strong Influence on FCEV Performance. SAE International Journal of Alternative Powertrains, 0, 7, .	0.8	7
22	Experimental Investigations on the Influence of Valve Timing and Multi-Pulse Injection on GCAI Combustion. , 0, , .		1
23	Evaluation of the Potential of Direct Water Injection in HCCI Combustion. , 0, , .		10