

Herve Jeanmart

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

1,895
citations

331538

21
h-index

276775

41
g-index

51
all docs

51
docs citations

51
times ranked

1744
citing authors

#	ARTICLE	IF	CITATIONS
1	Coupling of in situ adaptive tabulation and dynamic adaptive chemistry: An effective method for solving combustion in engine simulations. <i>Proceedings of the Combustion Institute</i> , 2011, 33, 3057-3064.	2.4	153
2	On the modelling of the subgrid-scale and filtered-scale stress tensors in large-eddy simulation. <i>Journal of Fluid Mechanics</i> , 2001, 441, 119-138.	1.4	148
3	Modeling of ammonia combustion at low pressure. <i>Combustion and Flame</i> , 2012, 159, 2799-2805.	2.8	129
4	Ammonia combustion at elevated pressure and temperature conditions. <i>Fuel</i> , 2010, 89, 3540-3545.	3.4	119
5	Experimental and numerical study, under LTC conditions, of ammonia ignition delay with and without hydrogen addition. <i>Proceedings of the Combustion Institute</i> , 2019, 37, 621-629.	2.4	119
6	Global available wind energy with physical and energy return on investment constraints. <i>Applied Energy</i> , 2018, 209, 322-338.	5.1	106
7	Biomass pyrolysis at high temperatures: Prediction of gaseous species yields from an anisotropic particle. <i>Biomass and Bioenergy</i> , 2012, 41, 107-121.	2.9	98
8	Global available solar energy under physical and energy return on investment constraints. <i>Applied Energy</i> , 2020, 257, 113968.	5.1	74
9	Energy and Economic Costs of Chemical Storage. <i>Frontiers in Mechanical Engineering</i> , 2020, 6, .	0.8	66
10	The effects of biomass syngas composition, moisture, tar loading and operating conditions on the combustion of a tar-tolerant HCCI (Homogeneous Charge Compression Ignition) engine. <i>Energy</i> , 2015, 87, 289-302.	4.5	61
11	EnergyScope TD: A novel open-source model for regional energy systems. <i>Applied Energy</i> , 2019, 255, 113729.	5.1	59
12	Ammonia-Hydrogen Blends in Homogeneous-Charge Compression-Ignition Engine. , 0, , .		57
13	A 22:1 Compression Ratio Ammonia-Hydrogen HCCI Engine: Combustion, Load, and Emission Performances. <i>Frontiers in Mechanical Engineering</i> , 2020, 6, .	0.8	51
14	Experimental investigation of pressure drop in packed beds of irregular shaped wood particles. <i>Powder Technology</i> , 2011, 205, 30-35.	2.1	48
15	Combustion Characteristics of Tricomponent Fuel Blends of Ethyl Acetate, Ethyl Propionate, and Ethyl Butyrate in Homogeneous Charge Compression Ignition (HCCI). <i>Energy & Fuels</i> , 2011, 25, 1497-1503.	2.5	43
16	Experimental Characterization of Ethyl Acetate, Ethyl Propionate, and Ethyl Butanoate in a Homogeneous Charge Compression Ignition Engine. <i>Energy & Fuels</i> , 2011, 25, 998-1003.	2.5	41
17	Experimental and modeling study of formaldehyde combustion in flames. <i>Combustion and Flame</i> , 2012, 159, 1814-1820.	2.8	40
18	HCCI engine operated with unscrubbed biomass syngas. <i>Fuel Processing Technology</i> , 2017, 157, 52-58.	3.7	37

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19	The influence of ethanol addition on a rich premixed benzene flame at low pressure. <i>Combustion and Flame</i> , 2014, 161, 2297-2304.	2.8	36
20	Simulations of Advanced Combustion Modes Using Detailed Chemistry Combined with Tabulation and Mechanism Reduction Techniques. <i>SAE International Journal of Engines</i> , 0, 5, 185-196.	0.4	32
21	Electricity storage needs for the energy transition: An EROI based analysis illustrated by the case of Belgium. <i>Energy</i> , 2018, 152, 960-973.	4.5	28
22	Fouling propensity of high-phosphorus solid fuels: Predictive criteria and ash deposits characterisation of sunflower hulls with P/Ca-additives in a drop tube furnace. <i>Fuel</i> , 2016, 170, 16-26.	3.4	27
23	EGR control on operation of a tar tolerant HCCI engine with simulated syngas from biomass. <i>Applied Energy</i> , 2018, 227, 159-167.	5.1	24
24	Belgian Energy Transition: What Are the Options?. <i>Energies</i> , 2020, 13, 261.	1.6	23
25	Biomass pyrolysis in pulverized-fuel boilers: Derivation of apparent kinetic parameters for inclusion in CFD codes. <i>Proceedings of the Combustion Institute</i> , 2011, 33, 1787-1794.	2.4	19
26	How to ensure the interpretability of experimental data in Rapid Compression Machines? A method to validate piston crevice designs. <i>Combustion and Flame</i> , 2018, 198, 393-411.	2.8	19
27	Whole-energy system models: The advisors for the energy transition. <i>Progress in Energy and Combustion Science</i> , 2020, 81, 100872.	15.8	19
28	The Role of Electrofuels under Uncertainties for the Belgian Energy Transition. <i>Energies</i> , 2021, 14, 4027.	1.6	19
29	CFD simulations of Rapid Compression Machines using detailed chemistry: Impact of multi-dimensional effects on the auto-ignition of the iso-octane. <i>Proceedings of the Combustion Institute</i> , 2017, 36, 383-391.	2.4	17
30	CFD simulations of Rapid Compression Machines using detailed chemistry: Evaluation of the "crevice containment" concept. <i>Combustion and Flame</i> , 2018, 189, 225-239.	2.8	17
31	Multifuel CHP HCCI Engine towards Flexible Power-to-fuel: Numerical Study of Operating Range. <i>Energy Procedia</i> , 2017, 105, 1532-1538.	1.8	15
32	An experimental and modeling study of the addition of acetone to H ₂ /O ₂ /Ar flames at low pressure. <i>Proceedings of the Combustion Institute</i> , 2015, 35, 647-653.	2.4	14
33	Impact of Mileage on Particle Number Emission Factors for EURO5 and EURO6 Diesel Passenger Cars. <i>Atmospheric Environment</i> , 2021, 244, 117975.	1.9	14
34	Tar Tolerant HCCI Engine Fuelled with Biomass Syngas: Combustion Control Through EGR. <i>Energy Procedia</i> , 2017, 105, 1764-1770.	1.8	12
35	Ash Characterization of Four Residual Wood Fuels in a 100 kW _{th} Circulating Fluidized Bed Reactor Including the Use of Kaolin and Halloysite Additives. <i>Energy & Fuels</i> , 2016, 30, 8304-8315.	2.5	11
36	Experimental and Modeling Study of Propanal/H ₂ /O ₂ /Ar Flames at Low Pressure. <i>Combustion Science and Technology</i> , 2016, 188, 556-570.	1.2	10

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37	Uncertainty quantification from raw measurements to post-processed data: A general methodology and its application to a homogeneous-charge compressionâ€“ignition engine. <i>International Journal of Engine Research</i> , 2020, 21, 1709-1737.	1.4	10
38	A modelling approach for the assessment of an air-dryer economic feasibility for small-scale biomass steam boilers. <i>Fuel Processing Technology</i> , 2015, 134, 251-258.	3.7	9
39	Feasibility Study of a New Test Procedure to Identify High Emitters of Particulate Matter during Periodic Technical Inspection. , 0, , .		9
40	The effect of benzene on the structure of low-pressure premixed H ₂ /CH ₄ /CO-air flames and related NO formation at different equivalence ratios. <i>Combustion and Flame</i> , 2021, 232, 111510.	2.8	8
41	Optimal Use of Lignocellulosic Biomass for the Energy Transition, Including the Non-Energy Demand: The Case of the Belgian Energy System. <i>Frontiers in Energy Research</i> , 2022, 10, .	1.2	8
42	Investigation of temperature correction methods for fine wire thermocouple losses in lowâ€“pressure flat premixed laminar flames. <i>Combustion and Flame</i> , 2022, 244, 112248.	2.8	8
43	Experimental and Numerical Study of Ethyl Valerate Flat Flames at Low Pressure. <i>Combustion Science and Technology</i> , 2018, 190, 632-662.	1.2	7
44	Estimate of the Societal Energy Return on Investment (EROI). <i>Biophysical Economics and Sustainability</i> , 2021, 6, 1.	0.7	7
45	Feasibility and Economic Impacts of the Energy Transition. <i>Sustainability</i> , 2021, 13, 5345.	1.6	7
46	Characterisation in water experiments of a â€œdetached flowâ€“free surface spallation target. <i>Journal of Nuclear Materials</i> , 2011, 415, 385-395.	1.3	6
47	Emission Measurement of Buses Fueled with Biodiesel Blends during On-Road Testing. <i>Energies</i> , 2020, 13, 5267.	1.6	4
48	Insight into electric utility business models for high-share renewables and storage integration. , 2016, , .		3
49	Design of a Gasification Reactor for Manufacturing and Operation in West Africa. <i>Designs</i> , 2021, 5, 76.	1.3	3
50	Taxonomy of the Fuels in a Whole-Energy System. <i>Frontiers in Energy Research</i> , 2021, 9, .	1.2	1
51	Characterization of dry and wet sawdust porous beds. <i>Powder Technology</i> , 2014, 264, 140-148.	2.1	0