Herve Jeanmart

List of Publications by Year
in descending order

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	Optimal Use of Lignocellulosic Biomass for the Energy Transition, Including the Non-Energy Demand: The Case of the Belgian Energy System. Frontiers in Energy Research, 2022, 10, .	1.2	8
2	Investigation of temperature correction methods for fine wire thermocouple losses in low‑pressure flat premixed laminar flames. Combustion and Flame, 2022, 244, 112248.	2.8	8
3	Impact of Mileage on Particle Number Emission Factors for EURO5 and EURO6 Diesel Passenger Cars. Atmospheric Environment, 2021, 244, 117975.	1.9	14
4	Estimate of the Societal Energy Return on Investment (EROI). Biophysical Economics and Sustainability, 2021, 6, 1.	0.7	7
5	Feasibility and Economic Impacts of the Energy Transition. Sustainability, 2021, 13, 5345.	1.6	7
6	Taxonomy of the Fuels in a Whole-Energy System. Frontiers in Energy Research, 2021, 9, .	1.2	1
7	The Role of Electrofuels under Uncertainties for the Belgian Energy Transition. Energies, 2021, 14, 4027.	1.6	19
8	The effect of benzene on the structure of low-pressure premixed H2/CH4/CO-air flames and related NO formation at different equivalence ratios. Combustion and Flame, 2021, 232, 111510.	2.8	8
9	Design of a Gasification Reactor for Manufacturing and Operation in West Africa. Designs, 2021, 5, 76.	1.3	3
10	Global available solar energy under physical and energy return on investment constraints. Applied Energy, 2020, 257, 113968.	5.1	74
11	Whole-energy system models: The advisors for the energy transition. Progress in Energy and Combustion Science, 2020, 81, 100872.	15.8	19
12	Emission Measurement of Buses Fueled with Biodiesel Blends during On-Road Testing. Energies, 2020, 13, 5267.	1.6	4
13	Energy and Economic Costs of Chemical Storage. Frontiers in Mechanical Engineering, 2020, 6, .	0.8	66
14	A 22:1 Compression Ratio Ammonia-Hydrogen HCCI Engine: Combustion, Load, and Emission Performances. Frontiers in Mechanical Engineering, 2020, 6, .	0.8	51
15	Uncertainty quantification from raw measurements to post-processed data: A general methodology and its application to a homogeneous-charge compression‑ignition engine. International Journal of Engine Research, 2020, 21, 1709-1737.	1.4	10
16	Belgian Energy Transition: What Are the Options?. Energies, 2020, 13, 261.	1.6	23
17	Experimental and numerical study, under LTC conditions, of ammonia ignition delay with and without hydrogen addition. Proceedings of the Combustion Institute, 2019, 37, 621-629.	2.4	119
18	EnergyScope TD: A novel open-source model for regional energy systems. Applied Energy, 2019, 255, 113729.	5.1	59

#	Article	IF	Citations
19	Experimental and Numerical Study of Ethyl Valerate Flat Flames at Low Pressure. Combustion Science and Technology, 2018, 190, 632-662.	1.2	7
20	Electricity storage needs for the energy transition: An EROI based analysis illustrated by the case of Belgium. Energy, 2018, 152, 960-973.	4.5	28
21	CFD simulations of Rapid Compression Machines using detailed chemistry: Evaluation of the â€˜crevice containmentâ€™ concept. Combustion and Flame, 2018, 189, 225-239.	2.8	17
22	Global available wind energy with physical and energy return on investment constraints. Applied Energy, 2018, 209, 322-338.	5.1	106
23	EGR control on operation of a tar tolerant HCCI engine with simulated syngas from biomass. Applied Energy, 2018, 227, 159-167.	5.1	24
24	How to ensure the interpretability of experimental data in Rapid Compression Machines? A method to validate piston crevice designs. Combustion and Flame, 2018, 198, 393-411.	2.8	19
25	Multifuel CHP HCCI Engine towards Flexible Power-to-fuel: Numerical Study of Operating Range. Energy Procedia, 2017, 105, 1532-1538.	1.8	15
26	Tar Tolerant HCCI Engine Fuelled with Biomass Syngas: Combustion Control Through EGR. Energy Procedia, 2017, 105, 1764-1770.	1.8	12
27	HCCI engine operated with unscrubbed biomass syngas. Fuel Processing Technology, 2017, 157, 52-58.	3.7	37
28	CFD simulations of Rapid Compression Machines using detailed chemistry: Impact of multi-dimensional effects on the auto-ignition of the iso-octane. Proceedings of the Combustion Institute, 2017, 36, 383-391.	2.4	17
29	Experimental and Modeling Study of Propanal/H_2/O_2/Ar Flames at Low Pressure. Combustion Science and Technology, 2016, 188, 556-570.	1.2	10
30	Insight into electric utility business models for high-share renewables and storage integration. , 2016, , .		3
31	Ash Characterization of Four Residual Wood Fuels in a 100 kW_{th} Circulating Fluidized Bed Reactor Including the Use of Kaolin and Halloysite Additives. Energy & Fuels, 2016, 30, 8304-8315.	2.5	11
32	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. Fuel, 2016, 170, 16-26.	3.4	27
33	An experimental and modeling study of the addition of acetone to H 2 /O 2 /Ar flames at low pressure. Proceedings of the Combustion Institute, 2015, 35, 647-653.	2.4	14
34	A modelling approach for the assessment of an air-dryer economic feasibility for small-scale biomass steam boilers. Fuel Processing Technology, 2015, 134, 251-258.	3.7	9
35	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. Energy, 2015, 87, 289-302.	4.5	61
36	The influence of ethanol addition on a rich premixed benzene flame at low pressure. Combustion and Flame, 2014, 161, 2297-2304.	2.8	36

#	Article	IF	Citations
37	Characterization of dry and wet sawdust porous beds. Powder Technology, 2014, 264, 140-148.	2.1	0
38	Modeling of ammonia combustion at low pressure. Combustion and Flame, 2012, 159, 2799-2805.	2.8	129
39	Experimental and modeling study of formaldehyde combustion in flames. Combustion and Flame, 2012, 159, 1814-1820.	2.8	40
40	Biomass pyrolysis at high temperatures: Prediction of gaseous species yields from an anisotropic particle. Biomass and Bioenergy, 2012, 41, 107-121.	2.9	98
41	Combustion Characteristics of Tricomponent Fuel Blends of Ethyl Acetate, Ethyl Propionate, and Ethyl Butyrate in Homogeneous Charge Compression Ignition (HCCI). Energy & Fuels, 2011, 25, 1497-1503.	2.5	43
42	Characterisation in water experiments of a â€œdetached flowâ€•free surface spallation target. Journal of Nuclear Materials, 2011, 415, 385-395.	1.3	6
43	Experimental Characterization of Ethyl Acetate, Ethyl Propionate, and Ethyl Butanoate in a Homogeneous Charge Compression Ignition Engine. Energy & Fuels, 2011, 25, 998-1003.	2.5	41
44	Experimental investigation of pressure drop in packed beds of irregular shaped wood particles. Powder Technology, 2011, 205, 30-35.	2.1	48
45	Biomass pyrolysis in pulverized-fuel boilers: Derivation of apparent kinetic parameters for inclusion in CFD codes. Proceedings of the Combustion Institute, 2011, 33, 1787-1794.	2.4	19
46	Coupling of in situ adaptive tabulation and dynamic adaptive chemistry: An effective method for solving combustion in engine simulations. Proceedings of the Combustion Institute, 2011, 33, 3057-3064.	2.4	153
47	Ammonia combustion at elevated pressure and temperature conditions. Fuel, 2010, 89, 3540-3545.	3.4	119
48	On the modelling of the subgrid-scale and filtered-scale stress tensors in large-eddy simulation. Journal of Fluid Mechanics, 2001, 441, 119-138.	1.4	148
49	Simulations of Advanced Combustion Modes Using Detailed Chemistry Combined with Tabulation and Mechanism Reduction Techniques. SAE International Journal of Engines, 0, 5, 185-196.	0.4	32
50	Ammonia-Hydrogen Blends in Homogeneous-Charge Compression-Ignition Engine. , 0, , .		57
51	Feasibility Study of a New Test Procedure to Identify High Emitters of Particulate Matter during Periodic Technical Inspection. , 0, , .		9