

# Sebastian Brusca

## List of Publications by Year in descending order

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59  
papers

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citations

623188

14  
h-index

642321

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60  
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60  
docs citations

60  
times ranked

656  
citing authors

#	ARTICLE	IF	CITATIONS
1	An Innovative Methodology to Take into Account Traffic Information on WLTP Cycle for Hybrid Vehicles. <i>Energies</i> , 2021, 14, 1548.	1.6	4
2	A novel hybrid model for the estimation of energy conversion in a wind farm combining wake effects and stochastic dependability. <i>Applied Energy</i> , 2020, 280, 115967.	5.1	19
3	On the wake effect in wind farm power forecasting: a new data-driven approach. <i>E3S Web of Conferences</i> , 2020, 197, 08016.	0.2	1
4	Analysis of citrus peels-based polygeneration plant for hydrogen, heat, power and DME production: energy and exergy analysis. <i>E3S Web of Conferences</i> , 2020, 197, 09001.	0.2	0
5	Ducted Savonius Turbine Performance: A Multi-Application Approach. <i>E3S Web of Conferences</i> , 2020, 197, 08007.	0.2	0
6	Development and Validation of CFD 2D Models for the Simulation of Micro H-Darrieus Turbines Subjected to High Boundary Layer Instabilities. <i>Energies</i> , 2020, 13, 5564.	1.6	5
7	Designing sustainable bioenergy from residual biomass: Site allocation criteria and energy/exergy performance indicators. <i>Applied Energy</i> , 2020, 274, 115315.	5.1	30
8	Passenger Car Energy Demand Assessment: a New Approach Based on Road Traffic Data. <i>E3S Web of Conferences</i> , 2020, 197, 05006.	0.2	2
9	Unsteady computational fluid dynamics analysis of the hydrodynamic instabilities in a reversible Francis turbine used in a storage plant. <i>Heliyon</i> , 2019, 5, e02441.	1.4	10
10	A Detailed Analysis of the Centrifugal Pumping Phenomenon in HAWTs Through the Use of CFD Models. <i>Research Topics in Wind Energy</i> , 2019, , 129-149.	0.2	4
11	CFD modeling of a ducted Savonius wind turbine for the evaluation of the blockage effects on rotor performance. <i>Renewable Energy</i> , 2019, 141, 28-39.	4.3	31
12	Fuels with low octane number: water injection as knock control method. <i>Heliyon</i> , 2019, 5, e01259.	1.4	14
13	Vertical axis air turbine in oscillating water column systems. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	0
14	Wind farm power forecasting: New algorithms with simplified mathematical structure. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	3
15	Biomass blend effect on energy production in a co-gasification-CHP system. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	4
16	Micro H-Darrieus wind turbines: CFD modeling and experimental validation. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	1
17	A new design methodology to predict wind farm energy production by means of a spiking neural network-based system. <i>International Journal of Numerical Modelling: Electronic Networks, Devices and Fields</i> , 2019, 32, e2267.	1.2	25
18	Internal combustion engine heat release calculation using single-zone and CFD 3D numerical models. <i>International Journal of Energy and Environmental Engineering</i> , 2018, 9, 215-226.	1.3	27

#	ARTICLE	IF	CITATIONS
19	On the use of dynamic reliability for an accurate modelling of renewable power plants. Energy, 2018, 151, 605-621.	4.5	26
20	On the Wind Turbine Wake Mathematical Modelling. Energy Procedia, 2018, 148, 202-209.	1.8	13
21	Second generation bioethanol production from Arundo donax biomass: an optimization method. Energy Procedia, 2018, 148, 728-735.	1.8	9
22	Dynamic Performance Evaluation of Photovoltaic Power Plant by Stochastic Hybrid Fault Tree Automaton Model. Energies, 2018, 11, 306.	1.6	28
23	Hydrogen production from residual biomass via air-steam gasification for a bioenergy-based economy in Sicily. Annales De Chimie: Science Des Materiaux, 2018, 42, 441-452.	0.2	0
24	Heat Exchange Numerical Modeling of a Submarine Pipeline for Crude Oil Transport. Energy Procedia, 2017, 126, 18-25.	1.8	9
25	On the turbine-induced damping in Oscillating Water Column wave energy converter. Energy Procedia, 2017, 126, 581-588.	1.8	7
26	Energy Performance of CHP System Integrated with Citrus Peel Air-Steam Gasification: a Comparative Study. Energy Procedia, 2017, 126, 485-492.	1.8	21
27	Placement optimization of biodiesel production plant by means of centroid mathematical method. Energy Procedia, 2017, 126, 353-360.	1.8	9
28	Theoretical and Experimental Study of Gaussian Plume Model in Small Scale System. Energy Procedia, 2016, 101, 58-65.	1.8	26
29	PM10 Dispersion Modeling by Means of CFD 3D and Eulerian-Lagrangian Models: Analysis and Comparison with Experiments. Energy Procedia, 2016, 101, 329-336.	1.8	23
30	Effects of Pressure, Temperature and Dilution on Fuels/Air Mixture Laminar Flame Burning Velocity. Energy Procedia, 2015, 82, 125-132.	1.8	9
31	Oscillating Water Column Wave Energy Converter by Means of Straight-bladed Darrieus Turbine. Energy Procedia, 2015, 82, 766-773.	1.8	9
32	Performance Analysis of Biofuel Fed Gas Turbine. Energy Procedia, 2015, 81, 493-504.	1.8	6
33	Experimental Analysis of a Plume Dispersion Around Obstacles. Energy Procedia, 2015, 82, 695-701.	1.8	14
34	A New Tool to Optimize ICE Performance and Emissions Via 1D Code Coupled with GAs. Energy Procedia, 2015, 82, 111-118.	1.8	0
35	Design of a vertical-axis wind turbine: how the aspect ratio affects the turbine's performance. International Journal of Energy and Environmental Engineering, 2014, 5, 333-340.	1.3	137
36	Wind Turbine Placement Optimization by means of the Monte Carlo Simulation Method. Modelling and Simulation in Engineering, 2014, 2014, 1-8.	0.4	13

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37	Analysis of Reforming Gas Combustion in Internal Combustion Engine. Energy Procedia, 2014, 45, 899-908.	1.8	17
38	Flow similitude laws applied to wind turbines through blade element momentum theory numerical codes. International Journal of Energy and Environmental Engineering, 2014, 5, 313-322.	1.3	7
39	A New Statistical based Energetic-economic Methodology for Wind Turbine Systems Evaluation. Energy Procedia, 2014, 45, 180-187.	1.8	3
40	On the Possibility to Run an Internal Combustion Engine on Acetylene and Alcohol. Energy Procedia, 2014, 45, 889-898.	1.8	27
41	On Gas Turbine Performance With Pulse Jet for Air Filters Cleaning. , 2010, , .		1
42	Gas Turbine Power Boosting: Evaporative Cooling. , 2010, , .		0
43	On the Combustion Turbine Modeling: A Dynamic Approach. , 2007, , 665.		0
44	The Influence of Specific Heats Variability on Heat Release Analysis Using Two-Zone Models. , 2006, , .		0
45	The Effects of Thermochemical Dissociation in Ice Heat Release Evaluation. , 2005, , 117.		1
46	Equilibrium Thermodynamics of Combustion by Means of Genetic Algorithms. , 2005, , .		2
47	Heat Recovery Steam Generator Optimization Using Analysis of Variance. , 2005, , .		0
48	Syngas Fed Gas Turbine Performance Increase by Means of Evaporative Cooling. , 2004, , 1.		1
49	Theoretical and Experimental Analysis of Heavy Duty Gas Turbine Performance Depending on Ambient Conditions. , 2003, , 405.		3
50	Analysis of Singas FED Gas Turbine Performance Depending on Ambient Conditions. , 2003, , .		0
51	Theoretical and Experimental Analysis of Carbon Coke Fed Steam Power Plant Performance. , 2003, , .		0
52	Evaluation of the Effects of Water Injection in a Single Cylinder CFR Cetane Engine. , 0, , .		20
53	Theoretical and Experimental Analysis of Diesel Sprays behavior from Multiple Injections Common Rail System. , 0, , .		4
54	Water Injection in IC - SI Engines to Control Detonation and to Reduce Pollutant Emissions. , 0, , .		33

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55	A Combustion Model for ICE by Means of Neural Network. , 0, , .		7
56	Neural Network Application to Evaluate Thermodynamic Properties of ICE's Combustion Gases. , 0, , .		8
57	The Evaluation of Gross Heat Release in Internal Combustion Engines by Means of Genetic Algorithms. , 0, , .		2
58	Hybrid Vehicles Performances Analysis: Feed-Forward Dynamic Approach. , 0, , .		0
59	A Feasibility Analysis of an Electric KERS for Internal Combustion Engine Vehicles. , 0, , .		3