

Antonio Ficarella

List of Publications by Year in descending order

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175
papers

2,637
citations

201575

27
h-index

265120

42
g-index

177
all docs

177
docs citations

177
times ranked

1971
citing authors

#	ARTICLE	IF	CITATIONS
1	A Methodology for the Comparative Analysis of Hybrid Electric and All-Electric Power Systems for Urban Air Mobility. <i>Energies</i> , 2022, 15, 638.	1.6	8
2	The Risky-Opportunity Analysis Method (ROAM) to Support Risk-Based Decisions in a Case-Study of Critical Infrastructure Digitization. <i>Risks</i> , 2022, 10, 48.	1.3	2
3	Intelligent Combined Neural Network and Kernel Principal Component Analysis Tool for Engine Health Monitoring Purposes. <i>Aerospace</i> , 2022, 9, 118.	1.1	11
4	Development of a combined Artificial Neural Network and Principal Component Analysis technique for Engine Health Monitoring. <i>IOP Conference Series: Materials Science and Engineering</i> , 2022, 1226, 012035.	0.3	1
5	Energy consumption and environmental impact of Urban Air mobility. <i>IOP Conference Series: Materials Science and Engineering</i> , 2022, 1226, 012065.	0.3	1
6	Effect of Coordination on Transient Response of a Hybrid Electric Propulsion System. <i>International Journal of Aviation Science and Technology</i> , 2022, vm03, 4-12.	0.6	1
7	Combustion performance of a low NOx gas turbine combustor using urea addition into liquid fuel. <i>Fuel</i> , 2021, 288, 119701.	3.4	5
8	Experimental data regarding the effects of urea addition into liquid fuel to combustion enhancement of a low NOx gas turbine combustor. <i>Data in Brief</i> , 2021, 34, 106702.	0.5	0
9	Fabrication and embedded sensors characterization of a micromachined water-propellant vaporizing liquid microthruster. <i>Applied Thermal Engineering</i> , 2021, 188, 116625.	3.0	7
10	Thrust Augmentation of Micro-Resistojets by Steady Micro-Jet Blowing into Planar Micro-Nozzle. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 5821.	1.3	0
11	Off-line and on-line optimization of the energy management strategy in a Hybrid Electric Helicopter for urban air-mobility. <i>Aerospace Science and Technology</i> , 2021, 113, 106677.	2.5	28
12	Neural Nonlinear Autoregressive Model with Exogenous Input (NARX) for Turboshaft Aeroengine Fuel Control Unit Model. <i>Aerospace</i> , 2021, 8, 206.	1.1	13
13	Optimal Energy Management of a Hybrid Electric Helicopter for Urban Air-Mobility. <i>IOP Conference Series: Materials Science and Engineering</i> , 2021, 1024, 012074.	0.3	5
14	Effect of hydrogen addition in diesel/natural gas dual-fuel combustion with late injection. <i>E3S Web of Conferences</i> , 2021, 312, 08005.	0.2	0
15	An optimized fuzzy logic for the energy management of a hybrid electric air-taxi. <i>E3S Web of Conferences</i> , 2021, 312, 07004.	0.2	4
16	A comprehensive study on the effect of pilot injection, EGR rate, IMEP and biodiesel characteristics on a CRDI diesel engine. <i>Energy</i> , 2020, 194, 116860.	4.5	24
17	Effects on performance, combustion and pollutants of water emulsified fuel in an aeroengine combustor. <i>Applied Energy</i> , 2020, 260, 114263.	5.1	23
18	Assessment of the impact of nanosecond plasma discharge on the combustion of methane air flames. <i>E3S Web of Conferences</i> , 2020, 197, 10001.	0.2	6

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19	Optimal design of phononic media through genetic algorithm-informed pre-stress for the control of antiplane wave propagation. <i>Extreme Mechanics Letters</i> , 2020, 40, 100896.	2.0	9
20	Control Oriented Modelling of a Turboshaft Engine for Hybrid Electric Urban Air-Mobility. <i>E3S Web of Conferences</i> , 2020, 197, 05003.	0.2	7
21	Comprehensive Characterization of the Behavior of a Diesel Oxidation Catalyst Used on a Dual-Fuel Engine. <i>Journal of Energy Engineering - ASCE</i> , 2020, 146, .	1.0	2
22	A Modeling Approach for the Effect of Battery Aging on the Performance of a Hybrid Electric Rotorcraft for Urban Air-Mobility. <i>Aerospace</i> , 2020, 7, 56.	1.1	21
23	Investigation of the Effects of Plasma Discharges on Methane Decomposition for Combustion Enhancement of a Lean Flame. <i>Energies</i> , 2020, 13, 1452.	1.6	8
24	Numerical Investigation of Nonisothermal Cavitating Flows on Hydrofoils by Means of an Extended Schnerrâ€“Sauer Model Coupled With a Nucleation Model. <i>Journal of Engineering for Gas Turbines and Power</i> , 2020, 142, .	0.5	14
25	Light-Induced ignition of Carbon Nanotubes and energetic nano-materials: a review on methods and advanced technical solutions for nanoparticles-enriched fuels combustion. <i>Reviews on Advanced Materials Science</i> , 2020, 59, 26-46.	1.4	14
26	Special Issue â€œActive Flow Control Technologies for Energy and Propulsive Systemsâ€• <i>Applied Sciences (Switzerland)</i> , 2020, 10, 221.	1.3	0
27	Active Control of Unsteady Cavitating Flows Over Hydrofoil. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2020, 142, .	0.8	3
28	Effects of plasma kinetic modeling on performance characterization of plasma actuators for active flow control. <i>E3S Web of Conferences</i> , 2020, 197, 10004.	0.2	0
29	Assessment of late pilot injection effect in dual-fuel combustion. <i>E3S Web of Conferences</i> , 2020, 197, 06010.	0.2	0
30	CFD data of unsteady cavitation around a hydrofoil, based on an extended Schnerr-Sauer model coupled with a nucleation model. <i>Data in Brief</i> , 2019, 25, 104226.	0.5	9
31	Synergy Effects in Electric and Hybrid Electric Aircraft. <i>Aerospace</i> , 2019, 6, 32.	1.1	16
32	Characterization of unsteady cavitating flow regimes around a hydrofoil, based on an extended Schnerrâ€“Sauer model coupled with a nucleation model. <i>International Journal of Multiphase Flow</i> , 2019, 115, 158-180.	1.6	30
33	An Application of the ECMS Strategy to a Wankel Hybrid Electric UAV. <i>MATEC Web of Conferences</i> , 2019, 304, 03010.	0.1	0
34	Dielectric barrier discharge plasma actuator effect on unsteady aerodynamic behavior of a pitching airfoil. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	0
35	Dual-fuel combustion fundamentals: Experimental-numerical analysis into a constant-volume vessel. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	0
36	Effect of jet-A1 emulsified fuel on aero-engine performance and emissions. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	2

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37	Impact of plasma actuation on the stability of a co-flow premixed methane-air flame under lean conditions. AIP Conference Proceedings, 2019, , .	0.3	0
38	Dielectric Barrier Discharge Plasma Actuator for Load Alleviation and Instability Control in a Compressor Cascade. MATEC Web of Conferences, 2019, 304, 01006.	0.1	0
39	A scalable model for design and control of turboprop engines for advanced propulsion systems. AIP Conference Proceedings, 2019, , .	0.3	2
40	Design and Calibration Strategies for Improving HCCI Combustion in Dual-Fuel Dieselâ€“Methane Engines. Energy, Environment, and Sustainability, 2019, , 267-296.	0.6	2
41	Jet engine degradation prognostic using artificial neural networks. Aircraft Engineering and Aerospace Technology, 2019, 92, 296-303.	0.7	19
42	Effects of Emulsified Fuel on the Performance and Emission Characteristics of Aeroengine Combustors. Journal of Engineering for Gas Turbines and Power, 2019, 141, .	0.5	4
43	Separation control by a microfabricated SDBD plasma actuator for small engine turbine applications: influence of the excitation waveform. Aerospace Science and Technology, 2018, 76, 442-454.	2.5	31
44	Characterization of cavitating flow regimes in an internal sharp-edged orifice by means of Proper Orthogonal Decomposition. Experimental Thermal and Fluid Science, 2018, 93, 242-256.	1.5	17
45	Comparative evaluation of physical and chemical properties, emission and combustion characteristics of brassica, cardoon and coffee based biodiesels as fuel in a compression-ignition engine. Fuel, 2018, 222, 156-174.	3.4	28
46	Characterization of the effects of a dielectric barrier discharge plasma actuator on a coaxial jet in a Bunsen burner. Experimental Thermal and Fluid Science, 2018, 91, 292-305.	1.5	15
47	Active Sensors/Actuators-Based Flow and Noise Control for Aerospace Applications. Lecture Notes in Electrical Engineering, 2018, , 185-196.	0.3	0
48	Advanced imaging processing for extracting dynamic features of gas turbine combustion chamber. Measurement: Journal of the International Measurement Confederation, 2018, 116, 669-675.	2.5	10
49	Exploiting the synergy between aircraft architecture and electric power system in unmanned aerial vehicle through many-objective optimisation. International Journal of Sustainable Aviation, 2018, 4, 247.	0.1	2
50	Modeling viscous effects on boundary layer of rarefied gas flows inside micronozzles in the slip regime condition. Energy Procedia, 2018, 148, 838-845.	1.8	7
51	A diagnostics tool for aero-engines health monitoring using machine learning technique. Energy Procedia, 2018, 148, 860-867.	1.8	34
52	Mode decomposition methods for the analysis of cavitating flows in turbomachinery. Energy Procedia, 2018, 148, 924-931.	1.8	0
53	Development of a real time intelligent health monitoring platform for aero-engine. MATEC Web of Conferences, 2018, 233, 00007.	0.1	10
54	Numerical Investigation of Non-Isothermal Cavitating Flows on Hydrofoils by Means of an Extended Schnerr-Sauer Model Coupled With a Nucleation Model. , 2018, , .		0

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55	A method to analyze and optimize hybrid electric architectures applied to unmanned aerial vehicles. <i>Aircraft Engineering and Aerospace Technology</i> , 2018, 90, 828-842.	0.8	12
56	Impact of Population Balance Modeling on the Prediction of Cryogenic Cavitation in Aerospace Propulsion Systems. , 2018, , .		4
57	Many-Objective Optimization of Mission and Hybrid Electric Power System of an Unmanned Aircraft. <i>Lecture Notes in Computer Science</i> , 2018, , 231-246.	1.0	3
58	A new approach to calculating endurance in electric flight and comparing fuel cells and batteries. <i>Applied Energy</i> , 2017, 187, 807-819.	5.1	108
59	Improvement of lean flame stability of inverse methane/air diffusion flame by using coaxial dielectric plasma discharge actuators. <i>Energy</i> , 2017, 126, 689-706.	4.5	34
60	Micro DBD plasma actuators for flow separation control on a low pressure turbine at high altitude flight operating conditions of aircraft engines. <i>Applied Thermal Engineering</i> , 2017, 114, 511-522.	3.0	23
61	Implementation and validation of an extended Schnerr-Sauer cavitation model for non-isothermal flows in OpenFOAM. <i>Energy Procedia</i> , 2017, 126, 58-65.	1.8	17
62	Cynara cardunculus and coffee grounds as promising biodiesel sources for internal combustion compression ignition engines. <i>Energy Procedia</i> , 2017, 126, 947-954.	1.8	2
63	Optimization of Plasma Actuator Excitation Waveform and Materials for Separation Control in Turbomachinery. <i>Energy Procedia</i> , 2017, 126, 786-793.	1.8	10
64	Analysis of the Performance of Plasma Actuators Under Low-Pressure Turbine Conditions Based on Experiments and URANS Simulations. , 2017, , .		3
65	Plasma-based flow control for low-pressure turbines at low-Reynolds-number. <i>Aircraft Engineering and Aerospace Technology</i> , 2017, 89, 671-682.	0.8	3
66	Multi-Walled Carbon Nanotubes (MWCNTs) bonded with Ferrocene particles as ignition agents for air-fuel mixtures. <i>Fuel</i> , 2017, 208, 734-745.	3.4	7
67	Improvement of dual-fuel biodiesel-producer gas engine performance acting on biodiesel injection parameters and strategy. <i>Fuel</i> , 2017, 209, 754-768.	3.4	32
68	Photo-Induced Ignition of Different Gaseous Fuels Using Carbon Nanotubes Mixed with Metal Nanoparticles as Ignitor Agents. <i>Combustion Science and Technology</i> , 2017, 189, 937-953.	1.2	12
69	Investigation of the boundary layer characteristics for assessing the DBD plasma actuator control of the separated flow at low Reynolds numbers. <i>Experimental Thermal and Fluid Science</i> , 2017, 81, 482-498.	1.5	39
70	Flame Structure and Chemiluminescence Emissions of Inverse Diffusion Flames under Sinusoidally Driven Plasma Discharges. <i>Energies</i> , 2017, 10, 334.	1.6	15
71	Pollutant Formation during the Occurrence of Flame Instabilities under Very-Lean Combustion Conditions in a Liquid-Fuel Burner. <i>Energies</i> , 2017, 10, 352.	1.6	16
72	Editorial Special Issue "Combustion and Propulsion" <i>Energies</i> , 2017, 10, 824.	1.6	0

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73	Biodiesel production from <i>Cynara cardunculus</i> L. and <i>Brassica carinata</i> A. Braun seeds and their suitability as fuels in compression ignition engines. <i>Italian Journal of Agronomy</i> , 2016, 11, 47-56.	0.4	12
74	Investigations of the Actuation Effect of a Single DBD Plasma Actuator for Flow Separation Control Under Simulated Low-Pressure Turbine Blade Conditions. , 2016, , .		8
75	Experimental and Numerical Investigations on the Effect of Different Air-Fuel Mixing Strategies on the Performance of a Lean Liquid Fueled Swirled Combustor. <i>Energy Procedia</i> , 2016, 101, 925-932.	1.8	3
76	Comparing Spray and Flame Behavior in a Swirl Liquid Fueled Lean Burner With Single and Multipoint Injections. , 2016, , .		0
77	Plasma actuator scaling down to improve its energy conversion efficiency for active flow control in modern turbojet engines compressors. <i>Applied Thermal Engineering</i> , 2016, 106, 334-350.	3.0	25
78	Performance optimization of a Two-Stroke supercharged diesel engine for aircraft propulsion. <i>Energy Conversion and Management</i> , 2016, 122, 279-289.	4.4	28
79	Experimental data regarding the characterization of the flame behavior near lean blowout in a non-premixed liquid fuel burner. <i>Data in Brief</i> , 2016, 6, 189-193.	0.5	4
80	Image processing for the characterization of flame stability in a non-premixed liquid fuel burner near lean blowout. <i>Aerospace Science and Technology</i> , 2016, 49, 41-51.	2.5	48
81	Lean Blowout Sensing and Plasma Actuation of Non-Premixed Flames. <i>IEEE Sensors Journal</i> , 2016, 16, 3896-3903.	2.4	9
82	Development and validation of a software tool for complex aircraft powertrains. <i>Advances in Engineering Software</i> , 2016, 96, 1-13.	1.8	12
83	Flow Separation Control on a Compressor-Stator Cascade Using Plasma Actuators and Synthetic and Continuous Jets. <i>Journal of Aerospace Engineering</i> , 2016, 29, .	0.8	29
84	Sizing and Simulation of a Piston-prop UAV. <i>Energy Procedia</i> , 2015, 82, 119-124.	1.8	11
85	Plasma Assisted Flame Stabilization in a Non-Premixed Lean Burner. <i>Energy Procedia</i> , 2015, 82, 410-416.	1.8	21
86	Plasma Actuation to Enhance the Flame Stabilization in a Non-Premixed Lean Microburner. , 2015, , .		0
87	Multiobjective Optimization of the Breathing System of an Aircraft two Stroke Supercharged Diesel Engine. <i>Energy Procedia</i> , 2015, 82, 31-37.	1.8	6
88	An Easy and Inexpensive Way to Estimate the Trapping Efficiency of a two Stroke Engine. <i>Energy Procedia</i> , 2015, 82, 17-22.	1.8	3
89	Comparison between synthetic jets and continuous jets for active flow control: Application on a NACA 0015 and a compressor stator cascade. <i>Aerospace Science and Technology</i> , 2015, 43, 256-280.	2.5	81
90	Supercharging system behavior for high altitude operation of an aircraft 2-stroke Diesel engine. <i>Energy Conversion and Management</i> , 2015, 101, 470-480.	4.4	52

#	ARTICLE	IF	CITATIONS
91	Optimization of micro single dielectric barrier discharge plasma actuator models based on experimental velocity and body force fields. <i>Acta Astronautica</i> , 2015, 116, 318-332.	1.7	36
92	An improved parameter identification schema for the dynamic model of LD converters. <i>Journal of Process Control</i> , 2015, 31, 64-72.	1.7	2
93	Predictions of Operational Degradation of the Fan Stage of an Aircraft Engine Due to Particulate Ingestion. <i>Journal of Engineering for Gas Turbines and Power</i> , 2015, 137, .	0.5	9
94	Monitoring Cavitation Regime From Pressure and Optical Sensors: Comparing Methods Using Wavelet Decomposition for Signal Processing. <i>IEEE Sensors Journal</i> , 2015, 15, 4684-4691.	2.4	18
95	Embedded sensor/actuator system for aircraft active flow separation control. , 2015, , .		3
96	Improvements in Dual-Fuel Biodiesel-Producer Gas Combustion at Low Loads through Pilot Injection Splitting. <i>Journal of Energy Engineering - ASCE</i> , 2015, 141, .	1.0	19
97	Investigation of a Micro Dielectric Barrier Discharge Plasma Actuator for Regional Aircraft Active Flow Control. <i>IEEE Transactions on Plasma Science</i> , 2015, 43, 3668-3680.	0.6	38
98	Cavitation Regime Detection by LS-SVM and ANN With Wavelet Decomposition Based on Pressure Sensor Signals. <i>IEEE Sensors Journal</i> , 2015, 15, 5701-5708.	2.4	20
99	Dissipated power and induced velocity fields data of a micro single dielectric barrier discharge plasma actuator for active flow control. <i>Data in Brief</i> , 2015, 5, 65-70.	0.5	4
100	A General Platform for the Modeling and Optimization of Conventional and More Electric Aircrafts. , 2014, , .		5
101	Comparison Between Wind Power Prediction Models Based on Wavelet Decomposition with Least-Squares Support Vector Machine (LS-SVM) and Artificial Neural Network (ANN). <i>Energies</i> , 2014, 7, 5251-5272.	1.6	116
102	Aircraft Distributed Flow Turbulence Sensor Network with Embedded Flow Control Actuators. , 2014, , .		7
103	Application and Comparison of Different Combustion Models of High Pressure LOX/CH4 Jet Flames. <i>Energies</i> , 2014, 7, 477-497.	1.6	25
104	Potentialities of a Common Rail Injection System for the Control of Dual Fuel Biodiesel-Producer Gas Combustion and Emissions. <i>Journal of Energy Engineering - ASCE</i> , 2014, 140, .	1.0	16
105	Frequency Analysis and Predictive Identification of Flame Stability by Image Processing. , 2014, , .		7
106	Experimental and Numerical Analysis of a Micro Plasma Actuator for Active Flow Control in Turbomachinery. , 2014, , .		15
107	Effect of a micro dielectric barrier discharge plasma actuator on quiescent flow. <i>IET Science, Measurement and Technology</i> , 2014, 8, 135-142.	0.9	29
108	An artificial neural network approach to investigate cavitating flow regime at different temperatures. <i>Measurement: Journal of the International Measurement Confederation</i> , 2014, 47, 971-981.	2.5	20

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109	Assessment of the Combustion Behavior of a Pilot-Scale Gas Turbine Burner Using Image Processing. , 2014, , .		5
110	Evaluating cavitation regimes in an internal orifice at different temperatures using frequency analysis and visualization. International Journal of Heat and Fluid Flow, 2013, 39, 160-172. , .	1.1	64
111	Experimental and Numerical Study of Particle Ingestion in Aircraft Engine. , 2013, , .		3
112	Electrical Resistivity Measures in Cohesive Soils for the Simulation of an Integrated Energy System Between CCS and Low-Enthalpy Geothermal. International Journal on Measurement Technologies and Instrumentation Engineering, 2013, 3, 48-68. , .	0.3	0
113	A Data Acquisition System to Detect Bubble Collapse Time and Pressure Losses in Water Cavitation. , 2013, , 39-56. , .		0
114	Active Flow Control Techniques on a Stator Compressor Cascade: A Comparison Between Synthetic Jet and Plasma Actuators. , 2012, , .		13
115	Spray and Combustion Modeling in High Pressure Cryogenic Jet Flames. , 2012, , .		4
116	A Neural Network Approach to Analyse Cavitating Flow Regime in an Internal Orifice. , 2012, , .		0
117	Influence of convective heat transfer modeling on the estimation of thermal effects in cryogenic cavitating flows. International Journal of Heat and Mass Transfer, 2012, 55, 6538-6554. , .	2.5	45
118	A Data Acquisition System to Detect Bubble Collapse Time and Pressure Losses in Water Cavitation. International Journal on Measurement Technologies and Instrumentation Engineering, 2011, 1, 38-54. , .	0.3	0
119	A New Hybrid Method for Wind Power Forecasting Based on Wavelet Decomposition and Artificial Neural Networks. , 2011, , .		2
120	Assessment of the benefits of numerical weather predictions in wind power forecasting based on statistical methods. Energy, 2011, 36, 3968-3978. , .	4.5	130
121	Error analysis of short term wind power prediction models. Applied Energy, 2011, 88, 1298-1311. , .	5.1	145
122	Performance Improvement of Turbomachinery Using Plasma Actuators. , 2011, , .		5
123	Analysis of Thermal Effects in a Cavitating Orifice Using Rayleigh Equation and Experiments. Journal of Engineering for Gas Turbines and Power, 2010, 132, . , .	0.5	29
124	Thermodynamic Effects on Cavitation in Water and Cryogenic Fluids. , 2010, , .		5
125	Comparisons of Different Wind Power Forecasting Systems. , 2010, , .		1
126	Study of the delivery behaviour of a pump for common rail fuel injection equipment. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2009, 223, 521-535. , .	0.7	6

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127	Simulation of Cryogenic Cavitation by Using Both Inertial and Heat Transfer Control Bubble Growth. , 2009, , .		6
128	Analysis of Thermal Effects in a Cavitating Orifice Using Rayleigh Equation and Experiments. , 2009, , .		0
129	Short-term wind forecasting using artificial neural networks (ANNs). , 2009, , .		8
130	Cavitation Modeling in Cryogenic Fluids for Liquid Rocket Engine Applications. , 2008, , .		4
131	Shape Optimization for Cryogenic Cavitating Flows Past an Isolated Hydrofoil. , 2008, , .		2
132	The Effects of Distributor and Striking Mass on the Performance of a Hydraulic Impact Machine. , 2008, , .		2
133	Modeling Nucleation Phenomena in Cavitating Flow. , 2007, , .		8
134	Combustion conditions discrimination properties of Pt-doped TiO ₂ thin film oxygen sensor. Sensors and Actuators B: Chemical, 2007, 123, 516-521.	4.0	36
135	Experimental Study of Thermal Cavitation in an Orifice. , 2006, , 523.		0
136	Numerical study of the extrusion process in cereals production: Part I. Fluid-dynamic analysis of the extrusion system. Journal of Food Engineering, 2006, 73, 103-111.	2.7	26
137	Control of the combustion behaviour in a diesel engine using early injection and gas addition. Applied Thermal Engineering, 2006, 26, 2279-2286.	3.0	45
138	Numerical study of the extrusion process in cereals production: Part II. Analysis of variance. Journal of Food Engineering, 2006, 72, 179-188.	2.7	15
139	Numerical Investigations on the Working Cycle of a Hydraulic Breaker: Off-Design Performance and Influence of Design Parameters. International Journal of Fluid Power, 2006, 7, 41-50.	0.7	16
140	<title>Cheap silicon technology integrated sol-gel combustion sensor</title>. , 2005, 5836, 255.		0
141	Comparison of Different Physical Models for the Simulation of Cavitating Flows Around a Hydrofoil. , 2005, , 797.		1
142	Response evaluation of TiO ₂ sensor to flue gas on spark ignition engine and in controlled environment. Sensors and Actuators B: Chemical, 2005, 107, 563-571.	4.0	26
143	Temperature and doping effects on performance of titania thin film lambda probe. Sensors and Actuators B: Chemical, 2005, 111-112, 52-57.	4.0	14
144	Monitoring the drying process of lasagna pasta through a novel sensing device-based method. Journal of Food Engineering, 2005, 69, 51-59.	2.7	14

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145	Numerical analysis of a cross-flow compact heat exchanger for vehicle applications. Applied Thermal Engineering, 2005, 25, 1995-2013.	3.0	48
146	Combined Effect of Exhaust Gas Recirculation and Partially Premixed Charge on Diesel Combustion Behavior. , 2005, , .		1
147	Effects on combustion and emissions of early and pilot fuel injections in diesel engines. International Journal of Engine Research, 2005, 6, 43-60.	1.4	43
148	Experimental and Numerical Investigations of Cavitating Flows. , 2005, , .		8
149	Preliminary Studies on the Effects of Injection Rate Modulation on the Combustion Noise of a Common Rail Diesel Engine. , 2004, , .		4
150	Fluid-Dynamic Analysis and Optimization of the Quenching Process for Hardening of Change-Speed Gears Using DOEâ€“ANOVA Method. Journal of Heat Transfer, 2004, 126, 365-375.	1.2	4
151	Applications and Impacts of a Real Fire in a Residential Building for Analysis the Level of Risk for Life. , 2004, , 745-750.		1
152	SOL-GEL TIO2 THIN FILM-BASED SENSOR FOR LAMBDA MEASUREMENT. , 2004, , .		0
153	Thermo-fluid-dynamic investigation of a dryer, using numerical and experimental approach. Journal of Food Engineering, 2003, 59, 413-420.	2.7	2
154	Automotive application of solâ€“gel TiO2 thin film-based sensor for lambda measurement. Sensors and Actuators B: Chemical, 2003, 95, 66-72.	4.0	60
155	Investigation on Realizing Fuel Rate Shaping Using a Common Rail Injector. , 2003, , .		3
156	A Combined Optimization Method for Common Rail Diesel Engines. , 2002, , 243.		6
157	Measurements of opacity at exhaust of diesel engine using extinction laser technique. , 2002, 4915, 199.		2
158	Numerical simulation of flow-field and dioxins chemistry for incineration plants and experimental investigation. Waste Management, 2000, 20, 27-49.	3.7	25
159	Energy conservation in alcohol distillery with the application of pinch technology. Energy Conversion and Management, 1999, 40, 1495-1514.	4.4	13
160	Experimental and Numerical Investigation on Cavitating Flows in Diesel Injection Systems. Meccanica, 1998, 33, 407-425.	1.2	5
161	Spray Characteristics of Five-Hole V.C.O Nozzles of a Diesel Electro- Injector. , 1994, , .		8
162	Feasibility of biomass-fuelled steam turbine cogeneration for olive oil pressing plants. International Journal of Ambient Energy, 1994, 15, 27-36.	1.4	1

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163	Injection characteristics simulation and analysis in diesel engines. <i>Meccanica</i> , 1993, 28, 239-248.	1.2	7
164	Investigation and Computer Simulation of Diesel Injection System With Rotative Pump. <i>Journal of Engineering for Gas Turbines and Power</i> , 1990, 112, 317-323.	0.5	9
165	Contribution To The Simulation Of Injection System For Reciprocating Internal Combustion Engines. , 0, , .		2
166	Diesel Electro-injector:A Numerical Simulation Code. , 0, , .		16
167	Experimental Investigation of the Sprays of an Axi-Symmetric Nozzle of a Common-Rail High Pressure Electro-Injector. , 0, , .		7
168	A Theoretical Code to Simulate the Behavior of an Electro-injector for Diesel Engines and Parametric Analysis. , 0, , .		16
169	Evaluation of Instability Phenomena in a Common Rail Injection System for High Speed Diesel Engines. , 0, , .		35
170	Study of the Influence of the Injection Parameters on Combustion Noise in a Common Rail Diesel Engine Using ANOVA and Neural Networks. , 0, , .		16
171	Cavitation Effects and Transient Behavior for the Control Valve of a High-Pressure Diesel Injection System. , 0, , .		3
172	Effects of Pilot Injection Parameters on Combustion for Common Rail Diesel Engines. , 0, , .		56
173	Investigation on the Impact Energy of a Hydraulic Breaker. , 0, , .		3
174	Designing a Hybrid Electric Powertrain for an Unmanned Aircraft with a Commercial Optimization Software. <i>SAE International Journal of Aerospace</i> , 0, 10, 1-11.	4.0	16
175	Potential Application of Photo-thermal Volumetric Ignition of Carbon Nanotubes in Internal Combustion Engines. , 0, , .		0