Simona Silvia Merola

List of Publications by Year
in descending order

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146 papers	2,200 citations	346980 22 h-index	425179 34 g-index
149 all docs	149 docs citations	149 times ranked	1337 citing authors

#	Article	IF	Citations
1	Quantitative investigation on the impact of injection timing on soot formation in a GDI engine with a customized sectional method. International Journal of Engine Research, 2022, 23, 624-637.	1.4	8
2	Lean Burn Flame Kernel Characterization for Different Spark Plug Designs and Orientations in an Optical GDI Engine. Energies, 2022, 15, 3393.	1.6	2
3	Online Monitoring Solutions of Efficiency for Automotive EGR Heat Exchangers. E3S Web of Conferences, 2020, 162, 01003.	0.2	1
4	Green pathway to a new fuel extender: continuous flow catalytic synthesis of butanol/butyl butyrate mixtures. RSC Advances, 2020, 10, 3130-3136.	1.7	2
5	Influence of water injection on combustion identified through spectroscopy in an optical direct injection spark ignition engine. Fuel, 2020, 273, 117729.	3.4	15
6	Effect of Fuel and Air Dilution on Syngas Combustion in an Optical SI Engine. Energies, 2019, 12, 1566.	1.6	14
7	Flame Front and Burned Gas Characteristics for Different Split Injection Ratios and Phasing in an Optical GDI Engine. Applied Sciences (Switzerland), 2019, 9, 449.	1.3	14
8	Experimental and numerical study on the adoption of split injection strategies to improve air-butanol mixture formation in a DISI optical engine. Fuel, 2019, 243, 104-124.	3.4	35
9	Opto-thermal analysis of the combustion process in a DISI engine fueled with gasoline and ethanol. AIP Conference Proceedings, 2019, , .	0.3	1
10	Effect of Electrode Geometry on Flame Kernel Development in a DI SI Engine. Proceedings in Automotive Engineering, 2019, , 481-493.	0.1	1
11	Influence of Dwell Time for Double Injection Strategies in a Wall Guided GDI Engine. Proceedings in Automotive Engineering, 2019, , 494-502.	0.1	1
12	Evaluation of compression ratio and blow-by rates for spark ignition engines based on in-cylinder pressure trace analysis. Energy Conversion and Management, 2018, 162, 98-108.	4.4	23
13	Investigation on the effects of butanol and ethanol fueling on combustion and PM emissions in an optically accessible DISI engine. Fuel, 2018, 216, 121-141.	3.4	33
14	Characterization of flame front propagation during early and late combustion for methane-hydrogen fueling of an optically accessible SI engine. International Journal of Hydrogen Energy, 2018, 43, 23538-23557.	3.8	23
15	Influence of Combustion Efficiency on the Operation of Spark Ignition Engines Fueled with Methane and Hydrogen Investigated in a Quasi-Dimensional Simulation Framework. , 2018, , .		3
16	Effect of coolant temperature on airâ€“fuel mixture formation and combustion in an optical direct injection spark ignition engine fueled with gasoline and butanol. Journal of the Energy Institute, 2017, 90, 452-465.	2.7	23
17	Analysis of the effects of diesel/methane dual fuel combustion on nitrogen oxides and particle formation through optical investigation in a real engine. Fuel Processing Technology, 2017, 159, 200-210.	3.7	49
18	A RANS knock model to predict the statistical occurrence of engine knock. Applied Energy, 2017, 191, 251-263.	5.1	44

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19	Spectroscopic characterization of energy transfer and thermal conditions of the flame kernel in a spark ignition engine fueled with methane and hydrogen. International Journal of Hydrogen Energy, 2017, 42, 13276-13288.	3.8	22
20	Effect of injection timing on combustion and soot formation in a direct injection spark ignition engine fueled with butanol. International Journal of Engine Research, 2017, 18, 490-504.	1.4	30
21	Biofuel effect on flame propagation and soot formation in a DISI engine. IOP Conference Series: Materials Science and Engineering, 2017, 252, 012092.	0.3	2
22	Correlation between Simulated Volume Fraction Burned Using a Quasi-Dimensional Model and Flame Area Measured in an Optically Accessible SI Engine. , 2017, , .		6
23	Flame Front Propagation in an Optical GDI Engine under Stoichiometric and Lean Burn Conditions. Energies, 2017, 10, 1337.	1.6	34
24	Effect of Fuel Injection Strategy on the Carbonaceous Structure Formation and Nanoparticle Emission in a DISI Engine Fuelled with Butanol. Energies, 2017, 10, 832.	1.6	12
25	Spark discharge and flame inception analysis through spectroscopy in a DISI engine fuelled with gasoline and butanol. IOP Conference Series: Materials Science and Engineering, 2017, 252, 012093.	0.3	5
26	Estimation of operational parameters for a direct injection turbocharged spark ignition engine by using regression analysis and artificial neural network. Thermal Science, 2017, 21, 401-412.	0.5	12
27	NUMERICAL INVESTIGATION OF ENGINE SPEED AND FUEL COMPOSITION EFFECTS ON CONVECTIVE HEAT TRANSFER IN A SPARK IGNITION ENGINE FUELLED WITH METHANE-HYDROGEN BLENDS. , 2017, , .		1
28	An Experimental Investigation of Alcohol/Diesel Fuel Blends on Combustion and Emissions in a Single-Cylinder Compression Ignition Engine. , 2016, , .		5
29	Split injection in a homogeneous stratified gasoline direct injection engine for high combustion efficiency and low pollutants emission. Energy, 2016, 117, 405-415.	4.5	46
30	Cycle-resolved visualization of pre-ignition and abnormal combustion phenomena in a GDI engine. Energy Conversion and Management, 2016, 127, 380-391.	4.4	23
31	Effect of the Fuel-Injection Strategy on Flame-Front Evolution in an Optical Wall-Guided DISI Engine with Gasoline and Butanol Fueling. Journal of Energy Engineering - ASCE, 2016, 142, .	1.0	13
32	Optical diagnostics of early flame development in a DISI (direct injection spark ignition) engine fueled with n-butanol and gasoline. Energy, 2016, 108, 50-62.	4.5	29
33	Analysis of combustion of methane and hydrogenâ€“methane blends in small DI SI (direct injection spark) Tj ETQq1 1 0.784314 rgBT	4.5	45
34	Application of an entrainment turbulent combustion model with validation based on the distribution of chemical species in an optical spark ignition engine. Applied Energy, 2016, 162, 908-923.	5.1	26
35	Experimental Analysis and Modeling of NOx Emissions in Compression Ignition Engines Fueled with Blends of Diesel and Palm Oil Biodiesel. , 2016, , .		0
36	Characterization of Alcohol Sprays from Multi-Hole Injector for DISI Engines through PIV Technique. , 2015, , .		2

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37	CHARACTERIZATION OF n-BUTANOL AND GASOLINE SPRAY FROM A MULTIHOLE INJECTOR USING PHASE DOPPLER ANEMOMETRY. Atomization and Sprays, 2015, 25, 1047-1062.	0.3	3
38	Butanol-Diesel Blend Spray Combustion Investigation by UV-Visible Flame Emission in a Prototype Single Cylinder Compression Ignition Engine. SAE International Journal of Engines, 2015, 8, 2145-2158.	0.4	4
39	Combustion process investigations in an optically accessible DISI engine fuelled with n-butanol during part load operation. Renewable Energy, 2015, 77, 363-376.	4.3	45
40	A comprehensive analysis of the impact of biofuels on the performance and emissions from compression and spark-ignition engines. International Journal of Engine Research, 2015, 16, 680-690.	1.4	10
41	Development of a semi-empirical convective heat transfer correlation based on thermodynamic and optical measurements in a spark ignition engine. Applied Energy, 2015, 157, 777-788.	5.1	33
42	Chemiluminescence analysis of the effect of butanol-diesel fuel blends on the spray-combustion process in an experimental common rail diesel engine. Thermal Science, 2015, 19, 1943-1957.	0.5	1
43	UV-visible digital imaging of split injection in a Gasoline Direct Injection engine. Thermal Science, 2015, 19, 1873-1886.	0.5	1
44	Optical Properties Investigation of Alternative Fuels Containing Carbon-Based Nanostructures. , 2014, , .		6
45	Experimental Study on the Spray Atomization of a Multi-hole Injector for Spark Ignition Engines Fuelled by Gasoline and n-Butanol. , 2014, , .		4
46	Characterization of Ethanol-Gasoline Blends Combustion processes and Particle Emissions in a GDI/PFI Small Engine. , 2014, , .		24
47	Optical Investigation of Postinjection Strategy Effect at the Exhaust Line of a Light-Duty Diesel Engine Supplied with Diesel/Butanol and Biodiesel Blends. Journal of Energy Engineering - ASCE, 2014, 140, .	1.0	6
48	Experimental investigation on the combustion process in a spark ignition optically accessible engine fueled with methane/hydrogen blends. International Journal of Hydrogen Energy, 2014, 39, 9809-9823.	3.8	64
49	Optical characterization of combustion processes in a DISI engine equipped with plasma-assisted ignition system. Applied Thermal Engineering, 2014, 69, 177-187.	3.0	22
50	Evaluation of different methods for combined thermodynamic and optical analysis of combustion in spark ignition engines. Energy Conversion and Management, 2014, 87, 914-927.	4.4	28
51	Combustion process investigation in a high speed diesel engine fuelled with n-butanol diesel blend by conventional methods and optical diagnostics. Renewable Energy, 2014, 64, 225-237.	4.3	89
52	Study of mixture formation and early flame development in a research GDI (gasoline direct injection) engine through numerical simulation and UV-digital imaging. Energy, 2014, 77, 88-96.	4.5	62
53	Spray-combustion process characterization in a common rail diesel engine fuelled with butanol-diesel blends by conventional methods and optical diagnostics. AIMS Energy, 2014, 2, 116-132.	1.1	6
54	Compression ratio and blow-by rates estimation based on motored pressure trace analysis for an optical spark ignition engine. Applied Thermal Engineering, 2013, 61, 101-109.	3.0	49

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55	In-cylinder spectroscopic measurements of knocking combustion inÂaÂSI engine fuelled with butanolâ€“gasoline blend. Energy, 2013, 62, 150-161.	4.5	45
56	UV-Visible Emission Spectroscopy of the Combustion Process in a Common Rail CI Engine Fulled with N-Butanol - Diesel Blends. Applied Mechanics and Materials, 2013, 390, 286-290.	0.2	1
57	Characterization of CH4 and CH4/H2 Mixtures Combustion in a Small Displacement Optical Engine. SAE International Journal of Fuels and Lubricants, 2013, 6, 24-33.	0.2	12
58	Multi-Wavelength Spectroscopic Investigations of the Post-Injection Strategy Effect on the Fuel Vapor within the Exhaust Line of a Light Duty Diesel Engine Fuelled with B5 and B30. , 2013, , .		1
59	Experimental investigations of butanol-gasoline blends effects on the combustion process in a SI engine. International Journal of Energy and Environmental Engineering, 2012, 3, 6.	1.3	53
60	Optical diagnostics of the combustion process in a PFI SI boosted engine fueled with butanolâ€“gasoline blend. Energy, 2012, 45, 277-287.	4.5	82
61	UV-Visible Imaging and Natural Emission Spectroscopy of Premixed Combustion in High Swirl Multi-Jets Compression Ignition Engine Fuelled with Diesel-Gasoline Blend. , 2012, , .		2
62	Application of a thermodynamic model with a complex chemistry to a cycle resolved knock prediction on a spark ignition optical engine. International Journal of Automotive Technology, 2012, 13, 389-399.	0.7	15
63	Optical investigation of the fuel injector influence in a PFI spark ignition engine for two-wheel vehicles. Journal of Mechanical Science and Technology, 2012, 26, 223-233.	0.7	1
64	Optical Investigation of the Effect on the Combustion Process of Butanol-Gasoline Blend in a PFI SI Boosted Engine. , 2011, , .		17
65	Experiments on knocking and abnormal combustion through optical diagnostics in a boosted spark ignition port fuel injection engine. International Journal of Automotive Technology, 2011, 12, 93-101.	0.7	7
66	Optical investigations of the early combustion phase in spark ignition boosted engines. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2011, 225, 787-800.	1.1	6
67	POD-based analysis of combustion images in optically accessible engines. Combustion and Flame, 2010, 157, 632-640.	2.8	59
68	Effect of the fuel injection strategy on the combustion process in a PFI boosted spark-ignition engine. Energy, 2010, 35, 1094-1100.	4.5	25
69	High Spatial Resolution Visualization and Spectroscopic Investigation of the Flame Front Propagation in the Combustion Chamber of a Scooter Engine. , 2010, , .		1
70	Fuel Injection Effect on In-cylinder Formation and Exhaust Emission of Particulate from a 4-Stroke Engine for 2-Wheel Vehicles. , 2010, , .		3
71	Use of Engine Crankshaft Speed for Determination of Cylinder Pressure Parameters. , 2009, , .		6
72	Analysis of flame kinematics and cycle variation in a Port Fuel Injection Spark Ignition Engine. SAE International Journal of Engines, 2009, 2, 443-451.	0.4	5

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73	Knocking diagnostics in the combustion chamber of boosted port fuel injection spark ignition optical engine. International Journal of Vehicle Design, 2009, 49, 70.	0.1	11
74	Optical investigations of fuel deposition burning in ported fuel injection (PFI) spark-ignition (SI) engine. Energy, 2009, 34, 2108-2115.	4.5	16
75	Effect of fuel injection strategies on the combustion process in a PFI boosted SI engine. International Journal of Automotive Technology, 2009, 10, 545-553.	0.7	12
76	Reconstruction of flame kinematics and analysis of cycle variation in a Spark Ignition Engine by means of Proper Orthogonal Decomposition. Computer Aided Chemical Engineering, 2009, 26, 1039-1043.	0.3	1
77	Study of the multi-injection combustion process in a transparent direct injection common rail diesel engine by means of optical techniques. International Journal of Engine Research, 2008, 9, 483-498.	1.4	60
78	The application of power-based transfer path analysis to passenger car structure-borne noise. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2008, 222, 2011-2023.	1.1	6
79	Soft Computing Model for Prediction of EGR Effects on Particle Sizing at CR Diesel Engine Exhaust. , 2007, , .		3
80	Knock investigation by flame and radical species detection in spark ignition engine for different fuels. Energy Conversion and Management, 2007, 48, 2897-2910.	4.4	74
81	Liquid/Vapour visualization of common rail diesel sprays in different ambient conditions with visible and UV laser light scattering and PLIF. , 2005, , .		0
82	Nanoparticles Characterization at Spark Ignition Engine Exhaust. , 2005, , .		7
83	Soot Particle Size Distribution–A Joint Work for Kinetic Modelling and Experimental Investigations. , 2005, , .		7
84	Soot Concentration and Particle Size in a DI CR Diesel Engine by Broadband Scattering and Extinction Measurements. , 2005, , .		5
85	Multiwavelength ultraviolet absorption spectroscopy of NO and OH radical concentration applied to a high-swirl diesel-like system. Experimental Thermal and Fluid Science, 2004, 28, 355-367.	1.5	14
86	Simultaneous Detection of NOx and Particulate in Exhaust of a CR Diesel Engine by UV-Visible Spectroscopy. , 2003, , .		6
87	Analysis of Combustion Process in a Transparent Common Rail Diesel Engine by 2D Digital Imaging and Flame Emission Spectroscopy. , 2003, , .		0
88	Evaluation of temporal and spatial distribution of nanometric particles in a diesel engine by broadband optical techniques. International Journal of Engine Research, 2002, 3, 93-101.	1.4	6
89	Spectroscopic analysis and modeling of particulate formation in a diesel engine. Journal of Quantitative Spectroscopy and Radiative Transfer, 2002, 73, 443-450.	1.1	16
90	Analysis of exhausts emitted by i.c. engines and stationary burners, by means of u.v. extinction and fluorescence spectroscopy. Chemosphere, 2001, 42, 827-834.	4.2	21

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91	Optical Detection of Absolute NO and OH Concentration inside Diesel Combustion Chamber. , 2001, , .		0
92	Nanometric Particle Formation in Optically Accessible Engine Diesel. , 2001, , .		3
93	Determination of Size of Fuel Droplets and Soot Particles in a Diesel Engine by Broadband Extinction and Scattering Spectroscopy. Particle and Particle Systems Characterization, 2001, 18, 235-242.	1.2	5
94	UV-Broadband Light Scattering Measurements During Metallic Particle Formation in a Combustion-Like Environment. Particle and Particle Systems Characterization, 1999, 16, 77-84.	1.2	3
95	Particle Formation from Single Droplets of Aqueous Solutions of Lead Nitrate. Particle and Particle Systems Characterization, 1998, 15, 237-242.	1.2	2
96	Ultraviolet Broadband Light Scattering by Single Metal-containing Droplets. Combustion Science and Technology, 1998, 134, 221-241.	1.2	5
97	Modelling of soot formation in diesel engines exploiting measurements of soot volume fraction and diameter. , 0, , .		0
98	Characterization of CR diesel exhaust by UV-visible extinction and scattering spectroscopy. , 0, , .		1
99	In-cylinder optical analysis of CRDI diesel engine combustion. , 0, , .		1
100	Absolute NO and OH Concentrations During Diesel Combustion Process by Multiwavelength Absorption Spectroscopy. , 0, , .		1
101	Spectral Analysis of Combustion Process of Common Rail Diesel Engine. , 0, , .		10
102	Multidimensional Modelling and Spectroscopic Analysis of the Soot Formation Process in a Diesel Engine. , 0, , .		2
103	The Diesel Exhaust Aftertreatment (DEXA) Cluster: A Systematic Approach to Diesel Particulate Emission Control in Europe. , 0, , .		22
104	Thermo-Fluid Dynamic Modeling and Experimental Investigation of a Turbocharged Common Rail DI Diesel Engine. , 0, , .		8
105	Validation of a Fractal Combustion Model through Flame Imaging. , 0, , .		57
106	Diesel Exhaust Nanoparticles Characterization by Multiwavelength Techniques, Laser Induced Incandescence and ELPI. , 0, , .		2
107	Flame Diagnostics in the Combustion Chamber of Boosted PFI SI Engine. , 0, , .		8
108	Development and Experimental Validation of a Combustion Model with Detailed Chemistry for Knock Predictions. , 0, , .		16

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109	Extinction and Chemiluminescence Measurements in CR DI Diesel Engine Operating in HCCI Mode. , 0, , .		14
110	Extinction and Chemiluminescence Measurements of HCCI Mode in Diesel Engine Operating with Late Injection. , 0, , .		4
111	Effect of Injection Phasing on Valves and Chamber Fuel Deposition Burning in a PFI Boosted Spark-Ignition Engine. SAE International Journal of Fuels and Lubricants, 0, 1, 192-200.	0.2	13
112	Use of Accelerometers for Spark Advance Control of SI Engines. SAE International Journal of Engines, 0, 2, 971-981.	0.4	18
113	Optical Characterization of the Combustion Process in a 4- Stroke Engine for 2-Wheel Vehicle.. , 0, , .		1
114	Spectroscopic Investigations and High Resolution Visualization of the Combustion Phenomena in a Boosted PFI SI Engine. SAE International Journal of Engines, 0, 2, 1617-1629.	0.4	6
115	Effect of the Engine Head Geometry on the Combustion Process in a PFI Boosted Spark-ignition Engine. SAE International Journal of Engines, 0, 2, 289-297.	0.4	0
116	Optical Investigations of the Abnormal Combustion in a Boosted Spark-ignition PFI Engine. SAE International Journal of Engines, 0, 2, 632-644.	0.4	6
117	Combustion Process Investigation in a Small SI Engine using Optical Diagnostics. , 0, , .		0
118	Optical Investigation of Premixed Low-Temperature Combustion of Lighter Fuel Blends in Compression Ignition Engines. , 0, , .		9
119	Optical Diagnostics of the Pollutant Formation in a CI Engine Operating with Diesel Fuel Blends. SAE International Journal of Engines, 0, 4, 2543-2558.	0.4	7
120	Studies of Exhaust Emissions and Optical Diagnostic of Spray for Biodiesel Samples with Additives Package using a Common-Rail System. , 0, , .		3
121	Optical Investigation of Post-injection Strategy Impact on the Fuel Vapor within the Exhaust Line of a Light Duty Diesel Engine Supplied with Biodiesel Blends. , 0, , .		1
122	In-Cylinder Spectroscopic Measurements of Combustion Process in a SI Engine Fuelled with Butanol-Gasoline Blend. , 0, , .		6
123	UV-visible Optical Characterization of the Early Combustion Stage in a DISI Engine Fuelled with Butanol-Gasoline Blend. SAE International Journal of Engines, 0, 6, 1953-1969.	0.4	29
124	Spectroscopic Investigation of Post-Injection Strategy Impact on Fuel Vapor within the Exhaust Line of a Light Duty Diesel Engine Supplied with Diesel/Butanol and Gasoline Blends. , 0, , .		1
125	Image Processing for Early Flame Characterization and Initialization of Flamelet Models of Combustion in a GDI Engine. , 0, , .		2
126	Effect of Control Parameters in an Optical DISI Engine with Gasoline-Butanol Fueling. , 0, , .		2

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127	Combustion Process Investigation in a DISI Engine Fuelled with n-butanol Through Digital Imaging and Chemiluminescence. , 0, , .		8
128	Flame Contour Analysis through UV-Visible Imaging during Regular and Abnormal Combustion in a DISI Engine. , 0, , .		15
129	Split Injection in a DISI Engine Fuelled with Butanol and Gasoline Analyzed through Integrated Methodologies. SAE International Journal of Engines, 0, 8, 474-494.	0.4	15
130	Experimental Evaluation of an Advanced Ignition System for GDI Engines. SAE International Journal of Engines, 0, 8, 2351-2367.	0.4	9
131	CFD Analysis of Combustion and Knock in an Optically Accessible GDI Engine. SAE International Journal of Engines, 0, 9, 641-656.	0.4	37
132	Plasma Assisted Ignition Effects on a DISI Engine Fueled with Gasoline and Butanol under Lean Conditions and with EGR. , 0, , .		4
133	On the Entrainment Velocity and Characteristic Length Scales Used for Quasi-Dimensional Turbulent Combustion Modeling in Spark Ignition Engines. , 0, , .		3
134	Numerical Simulation and Flame Analysis of Combustion and Knock in a DISI Optically Accessible Research Engine. SAE International Journal of Engines, 0, 10, 576-592.	0.4	15
135	CFD Optimization of n-Butanol Mixture Preparation and Combustion in an Research GDI Engine. , 0, , .		3
136	Numerical Simulation of Gasoline and n-Butanol Combustion in an Optically Accessible Research Engine. SAE International Journal of Fuels and Lubricants, 0, 10, 32-55.	0.2	32
137	Development of a RANS-Based Knock Model to Infer the Knock Probability in a Research Spark-Ignition Engine. SAE International Journal of Engines, 0, 10, 722-739.	0.4	33
138	In-Cylinder Soot Formation and Exhaust Particle Emissions in a Small Displacement Spark Ignition Engine Operating with Ethanol Mixed and Dual Fueled with Gasoline. , 0, , .		9
139	Effect of Hydrogen Enrichment on Flame Morphology and Combustion Evolution in a SI Engine Under Lean Burn Conditions. , 0, , .		6
140	Influence of Engine Speed and Injection Phasing on Lean Combustion for Different Dilution Rates in an Optically Accessible Wall-Guided Spark Ignition Engine. SAE International Journal of Engines, 0, 11, 1343-1369.	0.4	23
141	Development of Chemistry-Based Laminar Flame Speed Correlation for Part-Load SI Conditions and Validation in a GDI Research Engine. SAE International Journal of Engines, 0, 11, 715-741.	0.4	26
142	Numerical Investigation of Water Injection Effects on Flame Wrinkling and Combustion Development in a GDI Spark Ignition Optical Engine. , 0, , .		8
143	Laminar Flame Speed Based Optimization of Efficiency and Emissions for Methane-Hydrogen Fueled SI Micro-Generators. , 0, , .		3
144	Experimental and Numerical Investigation of the Flow Field Effect on Arc Stretching for a J-type Spark Plug. , 0, , .		3

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145	Development of a Sectional Soot Model Based Methodology for the Prediction of Soot Engine-Out Emissions in GDI Units. , 0, , .		6
146	Quasi-Dimensional Simulation of Downsizing and Inverter Application for Efficient Part Load Operation of Spark Ignition Engine Driven Micro-Cogeneration Systems. , 0, , .		6