Gerardo Valentino

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Effect of Cylinder-by-Cylinder Variation on Performance and Gaseous Emissions of a PFI Spark Ignition Engine: Experimental and 1D Numerical Study. Applied Sciences (Switzerland), 2021, 11, 6035.	1.3	6
2	Experimental Comparative Study on Performance and Emissions of E85 Adopting Different Injection Approaches in a Turbocharged PFI SI Engine. Energies, 2019, 12, 1555.	1.6	4
3	Experimental and numerical study on the influence of cooled EGR on knock tendency, performance and emissions of a downsized spark-ignition engine. Energy, 2019, 172, 968-976.	4.5	59
4	Optical investigations in a CI engine fueled with water in diesel emulsion produced through microchannels. Experimental Thermal and Fluid Science, 2018, 95, 96-103.	1.5	30
5	Optical Analysis of Combustion and Soot Formation in a CI Engine Fuelled with Water in Diesel Emulsion through Microchannels Emulsification. Journal of Physics: Conference Series, 2018, 1110, 012010.	0.3	2
6	Impact of Ethanol-Gasoline Port Injected onÂPerformance and Exhaust Emissions of aÂTurbocharged SI Engine. , 2018, , .		4
7	Effect of Water Injection on Fuel Efficiency and Gaseous and PN Emissions in a Downsized Turbocharged SI Engine. Journal of Energy Engineering - ASCE, 2018, 144, .	1.0	11
8	Effect of coolant temperature on air–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
9	Water Spray Flow Characteristics Under Synthetic Jet Driven By a Piezoelectric Actuator. Journal of Physics: Conference Series, 2017, 778, 012005.	0.3	5
10	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
11	INFLUENCE OF PIEZO-DRIVEN SYNTHETIC JET ON WATER SPRAY BEHAVIOR. Atomization and Sprays, 2017, 27, 691-706.	0.3	13
12	An Experimental Investigation of Alcohol/Diesel Fuel Blends on Combustion and Emissions in a Single-Cylinder Compression Ignition Engine. , 2016, , .		5
13	A Non-Linear Regression Technique to Estimate from Vibrational Engine Data the Instantaneous In-Cylinder Pressure Peak and Related Angular Position. , 2016, , .		10
14	A Modeling Study of Cyclic Dispersion Impact on Fuel Economy for a Small Size Turbocharged SI Engine. SAE International Journal of Engines, 2016, 9, 2066-2078.	0.4	1
15	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
16	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
17	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
18	Experimental Analysis and Modeling of NOx Emissions in Compression Ignition Engines Fueled with Blends of Diesel and Palm Oil Biodiesel. , 2016, , .		0

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19	Characterization of Alcohol Sprays from Multi-Hole Injector for DISI Engines through PIV Technique. , 2015, , .		2
20	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
21	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
22	Performances and Emissions of a 2-Stroke Diesel Engine Fueled with Biofuel Blends. Energy Procedia, 2015, 81, 918-929.	1.8	6
23	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
24	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
25	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
26	Effect of Different Fuels Properties on Emissions and Performance of a Light Duty Four-Cylinder Diesel Engine Under Premixed Combustion. , 2014, , .		3
27	Optical Properties Investigation of Alternative Fuels Containing Carbon-Based Nanostructures. , 2014, , \cdot		6
28	Experimental Study on the Spray Atomization of a Multi-hole Injector for Spark Ignition Engines Fuelled by Gasoline and n-Butanol. , 2014, , .		4
29	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
30	Comparative behavior of gasoline–diesel/butanol–diesel blends and injection strategy management on performance and emissions of a light duty diesel engine. Energy, 2014, 71, 321-331.	4.5	34
31	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
32	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
33	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
34	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
35	In-cylinder spectroscopic measurements of knocking combustion inÂaÂSI engine fuelled with butanol–gasoline blend. Energy, 2013, 62, 150-161.	4.5	45
36	UV-Visible Emission Spectroscopy of the Combustion Process in a Common Rail Cl Engine Fulled with N-Butanol - Diesel Blends. Applied Mechanics and Materials, 2013, 390, 286-290.	0.2	1

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37	Investigation of the Effect of Boost Pressure and Exhaust Gas Recirculation Rate on Nitrogen Oxide and Particulate Matter Emissions in Diesel Engines. , 2013, , .		3
38	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
39	Experimental Investigation on the Combustion and Emissions of a Light Duty Diesel Engine Fuelled with Butanol-Diesel Blend. , 2013, , .		11
40	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
41	Optical diagnostics of the combustion process in a PFI SI boosted engine fueled with butanol–gasoline blend. Energy, 2012, 45, 277-287.	4.5	82
42	Effects of gasoline–diesel and n-butanol–diesel blends on performance and emissions of an automotive direct-injection diesel engine. International Journal of Engine Research, 2012, 13, 199-215.	1.4	19
43	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
44	Experimental study on performance and emissions of a high speed diesel engine fuelled with n-butanol diesel blends under premixed low temperature combustion. Fuel, 2012, 92, 295-307.	3.4	184
45	Optical Investigation of the Effect on the Combustion Process of Butanol-Gasoline Blend in a PFI SI Boosted Engine. , 2011, , .		17
46	Biodiesel/mineral diesel fuel mixtures: Spray evolution and engine performance and emissions characterization. Energy, 2011, 36, 3924-3932.	4.5	51
47	Effects of Low Temperature Premixed Combustion (LTPC) on Emissions of a Modern Diesel Engine for Passenger Cars. , 2010, , .		1
48	Experimental and numerical investigation of diesel spray behaviour in high pressure common-rail systems. International Journal of Vehicle Design, 2009, 50, 50.	0.1	3
49	Innovative Lift Direct Command to Inner Hydraulic Circuit Injector Comparison for Diesel Engines. , 2006, , .		3
50	Analysis of a High Pressure Diesel Spray at High Pressure and Temperature Environment Conditions. , 2005, , .		14
51	Particle image velocimetry for mixture formation investigation in a GDI prototype engine. , 2003, 5191, 59.		Ο
52	Fluid-Dynamic Analysis of the Intake System for a HDDI Diesel Engine by STAR-CD Code and LDA Technique. , 2003, , .		12
53	Analysis of the Intake Flow in a Diesel Engine Head Using Dynamic Steady Flow Conditions. , 2001, , .		6
54	Droplet Size and Velocity Distributions of a Transient Hollow-Cone Spray for GDI Engines. Particle and Particle Systems Characterization, 2001, 18, 262-270.	1.2	1

GERARDO VALENTINO

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55	Optical Diagnostics of Temporal and Spatial Evolution of a Reacting Diesel Fuel Jet. Combustion Science and Technology, 1999, 148, 1-16.	1.2	20
56	LDV Measurements of Integral Length Scales in an IC Engine. , 1996, , .		3
57	Interpretation of k-ε computed turbulence length-scale predictions for engine flows. Proceedings of the Combustion Institute, 1996, 26, 2717-2723.	0.3	27
58	Analysis of In-Cylinder Turbulent Air Motion Dependence on Engine Speed. , 1994, , .		10
59	Analysis of in-cylinder flow processes by LDA. Combustion and Flame, 1994, 99, 387-394.	2.8	25
60	Fluid-Dynamic Investigation and Optical Characterization of Particulate to Reduce Diesel Emissions. Combustion Science and Technology, 1993, 93, 291-304.	1.2	1
61	Intake Valve Flow Measurements Using PIV. , 1993, , .		15
62	Experimental and Numerical Investigation of Air Flow Field in an Open Chamber Diesel Engine. , 1988, , .		3
63	Effect of Combustion Chamber Shape on Air Flow Field in a D.I. Diesel Engine. , 0, , .		8
64	The Role Of Mean Motion and Turbulence structure on Gaseous and Particulate Emissions of D. I. Diesel Combustion System. , 0, , .		2
65	Evaluation of Fluid-Mechanic Behavior of Toroidal and Square, Four-Lobe Combustion Chamber by LDA. , 0, , .		4
66	Turbulence Length Scale Measurements by Two-Probe-Volume LDA Technique in a Diesel Engine. , 0, , .		17
67	Improvement of Combustion System of a Small D.I. Diesel Engine for Low Exhaust Emissions. , 0, , .		8
68	In-Cylinder Fluid Motion and Emissions of a Conventional and Re-entrant Diesel Combustion Systems. , 0, , .		2
69	In-Cylinder Flow Measurements by LDA and Numerical Simulation by KIVA-II Code. , 0, , .		3
70	Numerical and Experimental Analysis of Diesel Air Fuel Mixing. , 0, , .		14
71	Assessment of k-Î μ Turbulence Model in KIVA-II by In-Cylinder LDV Measurements. , 0, , .		4

72 Integral and Micro Time Scales Estimate in a D.I. Diesel Engine. , 0, , .

2

GERARDO VALENTINO

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73	A Study of Physical and Chemical Delay in a High Swirl Diesel System via Multiwavelength Extinction Measurements. , 0, , .		9
74	Interpretation of Air Motion in Reentrant Bowl in-Piston Engine by Estimating Reynolds Stresses. , 0, , .		5
75	Fuel Composition Effects on Air-Fuel Mixing and Self-Ignition in a Divided Chamber Diesel System by Optical Diagnostics. , 0, , .		3
76	Identification of a Common-Rail Diesel Jet Contour and Spray Droplet Velocity by Two Different Laser Techniques. , 0, , .		2
77	Droplets Size and Velocity in a GDI Spray by PDA and Laser Light Extinction Techniques. , 0, , .		1
78	Investigation of the intake tumble flow in a prototype GDI engine using a steady-state test rig. , 0, , .		2
79	Experimental and Numerical Study of Spray Generated by a High Pressure Gasoline Swirl Injector. , 0, , .		1
80	Investigation of Mixture Formation Process in a HDDI Diesel Engine by CFD and Imaging Technique. , 0, ,		3
81	Experimental Investigation of a Spray from a Multi-jet Common Rail Injection System for Small Engines. , 0, , .		17
82	Influence of a Swirling Air Flow on an Evaporating Diesel Spray from a Common Rail Injection System under Realistic Engine Conditions. , 0, , .		5
83	Experimental and Numerical Analyses of Performances and Noise Emission of a Common Rail Light Duty D.I. Diesel Engine. , 0, , .		3
84	Prediction and Optimization of the Performances, Noxious Emissions and Radiated Noise of a Light Duty Common-Rail Diesel Engine. , 0, , .		6
85	The Full Cycle HD Diesel Engine Simulations Using KIVA-4 Code. , 0, , .		12
86	PIV Investigation of High Swirl Flow on Spray Structure and its Effect on Emissions in a Diesel-Like Environment. , 0, , .		7
87	Effects of Premixed Low Temperature Combustion of Fuel Blends with High Resistance to Auto-ignition on Performances and Emissions in a High Speed Diesel Engine. , 0, , .		12
88	Optical Investigation of Premixed Low-Temperature Combustion of Lighter Fuel Blends in Compression Ignition Engines. , 0, , .		9
89	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
90	An Experimental Analysis on Diesel/n-Butanol Blends Operating in Partial Premixed Combustion in a Light Duty Diesel Engine. , 0, , .		7

GERARDO VALENTINO

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91	Combustion Optimization of a Marine DI Diesel Engine. , 0, , .		1
92	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
93	In-Cylinder Spectroscopic Measurements of Combustion Process in a SI Engine Fuelled with Butanol-Gasoline Blend. , 0, , .		6
94	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
95	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
96	Effect of Control Parameters in an Optical DISI Engine with Gasoline-Butanol Fueling. , 0, , .		2
97	Combustion Process Investigation in a DISI Engine Fuelled with n-butanol Through Digital Imaging and Chemiluminescence. , 0, , .		8
98	Flame Contour Analysis through UV-Visible Imaging during Regular and Abnormal Combustion in a DISI Engine. , 0, , .		15
99	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
100	Experimental Evaluation of an Advanced Ignition System for GDI Engines. SAE International Journal of Engines, 0, 8, 2351-2367.	0.4	9
101	CFD Analysis of Combustion and Knock in an Optically Accessible GDI Engine. SAE International Journal of Engines, 0, 9, 641-656.	0.4	37
102	Plasma Assisted Ignition Effects on a DISI Engine Fueled with Gasoline and Butanol under Lean Conditions and with EGR. , 0, , .		4
103	Water Injection: a Technology to Improve Performance and Emissions of Downsized Turbocharged Spark Ignited Engines. SAE International Journal of Engines, 0, 10, 2319-2329.	0.4	34
104	Water Injection to Enhance Performance and Emissions of a Turbocharged Gasoline Engine under High Load Condition. SAE International Journal of Engines, 0, 10, 928-937.	0.4	47
105	Experimental and Numerical Study of the Water Injection to Improve the Fuel Economy of a Small Size Turbocharged SI Engine. SAE International Journal of Engines, 0, 10, 550-561.	0.4	56
106	Impact of Cooled EGR on Performance and Emissions of a Turbocharged Spark-Ignition Engine under Low-Full Load Conditions. , 0, , .		7
107	Experimental and 1D Numerical Investigations on the Exhaust Emissions of a Small Spark Ignition Engine Considering the Cylinder-by-Cylinder Variability. , 0, , .		2