

Constantine Rakopoulos

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166
papers

8,992
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53
h-index

90
g-index

169
ext. papers

9,722
ext. citations

6.4
avg, IF

6.41
L-index

#	Paper	IF	Citations
166	Effects of butanol/diesel fuel blends on the performance and emissions of a high-speed DI diesel engine. <i>Energy Conversion and Management</i> , 2010 , 51, 1989-1997	10.6	443
165	Comparative performance and emissions study of a direct injection Diesel engine using blends of Diesel fuel with vegetable oils or bio-diesels of various origins. <i>Energy Conversion and Management</i> , 2006 , 47, 3272-3287	10.6	412
164	Second-law analyses applied to internal combustion engines operation. <i>Progress in Energy and Combustion Science</i> , 2006 , 32, 2-47	33.6	312
163	Emission characteristics of high speed, dual fuel, compression ignition engine operating in a wide range of natural gas/diesel fuel proportions. <i>Fuel</i> , 2010 , 89, 1397-1406	7.1	287
162	Combustion heat release analysis of ethanol or n-butanol diesel fuel blends in heavy-duty DI diesel engine. <i>Fuel</i> , 2011 , 90, 1855-1867	7.1	259
161	Influence of properties of various common bio-fuels on the combustion and emission characteristics of high-speed DI (direct injection) diesel engine: Vegetable oil, bio-diesel, ethanol, n-butanol, diethyl ether. <i>Energy</i> , 2014 , 73, 354-366	7.9	246
160	Investigation of the performance and emissions of bus engine operating on butanol/diesel fuel blends. <i>Fuel</i> , 2010 , 89, 2781-2790	7.1	241
159	Effects of ethanol/diesel fuel blends on the performance and exhaust emissions of heavy duty DI diesel engine. <i>Energy Conversion and Management</i> , 2008 , 49, 3155-3162	10.6	236
158	Experimental heat release analysis and emissions of a HSDI diesel engine fueled with ethanol/diesel fuel blends. <i>Energy</i> , 2007 , 32, 1791-1808	7.9	236
157	Exhaust emissions of diesel engines operating under transient conditions with biodiesel fuel blends. <i>Progress in Energy and Combustion Science</i> , 2012 , 38, 691-715	33.6	227
156	Exhaust emissions with ethanol or n-butanol diesel fuel blends during transient operation: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2013 , 17, 170-190	16.2	221
155	Characteristics of performance and emissions in high-speed direct injection diesel engine fueled with diethyl ether/diesel fuel blends. <i>Energy</i> , 2012 , 43, 214-224	7.9	185
154	Impact of properties of vegetable oil, bio-diesel, ethanol and n-butanol on the combustion and emissions of turbocharged HDDI diesel engine operating under steady and transient conditions. <i>Fuel</i> , 2015 , 156, 1-19	7.1	178
153	Study of turbocharged diesel engine operation, pollutant emissions and combustion noise radiation during starting with bio-diesel or n-butanol diesel fuel blends. <i>Applied Energy</i> , 2011 , 88, 3905-3916	10.7	174
152	Performance and emissions of bus engine using blends of diesel fuel with bio-diesel of sunflower or cottonseed oils derived from Greek feedstock. <i>Fuel</i> , 2008 , 87, 147-157	7.1	174
151	Investigating the emissions during acceleration of a turbocharged diesel engine operating with bio-diesel or n-butanol diesel fuel blends. <i>Energy</i> , 2010 , 35, 5173-5184	7.9	142
150	Butanol or DEE blends with either straight vegetable oil or biodiesel excluding fossil fuel: Comparative effects on diesel engine combustion attributes, cyclic variability and regulated emissions trade-off. <i>Energy</i> , 2016 , 115, 314-325	7.9	132

149	Theoretical study of the effects of pilot fuel quantity and its injection timing on the performance and emissions of a dual fuel diesel engine. <i>Energy Conversion and Management</i> , 2007 , 48, 2951-2961	10.6	117
148	Comparative second-law analysis of internal combustion engine operation for methane, methanol, and dodecane fuels. <i>Energy</i> , 2001 , 26, 705-722	7.9	110
147	Critical evaluation of current heat transfer models used in CFD in-cylinder engine simulations and establishment of a comprehensive wall-function formulation. <i>Applied Energy</i> , 2010 , 87, 1612-1630	10.7	107
146	Studying combustion and cyclic irregularity of diethyl ether as supplement fuel in diesel engine. <i>Fuel</i> , 2013 , 109, 325-335	7.1	106
145	Multi-zone modeling of Diesel engine fuel spray development with vegetable oil, bio-diesel or Diesel fuels. <i>Energy Conversion and Management</i> , 2006 , 47, 1550-1573	10.6	106
144	Comparative environmental behavior of bus engine operating on blends of diesel fuel with four straight vegetable oils of Greek origin: Sunflower, cottonseed, corn and olive. <i>Fuel</i> , 2011 , 90, 3439-3446	7.1	103
143	Multi-zone modeling of combustion and emissions formation in DI diesel engine operating on ethanol-diesel fuel blends. <i>Energy Conversion and Management</i> , 2008 , 49, 625-643	10.6	103
142	Development and application of multi-zone model for combustion and pollutants formation in direct injection diesel engine running with vegetable oil or its bio-diesel. <i>Energy Conversion and Management</i> , 2007 , 48, 1881-1901	10.6	102
141	Modeling HCCI combustion of biofuels: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2012 , 16, 1588-1610	16.2	101
140	Validation and sensitivity analysis of a two zone Diesel engine model for combustion and emissions prediction. <i>Energy Conversion and Management</i> , 2004 , 45, 1471-1495	10.6	101
139	Availability analysis of hydrogen/natural gas blends combustion in internal combustion engines. <i>Energy</i> , 2008 , 33, 248-255	7.9	89
138	Experimental-stochastic investigation of the combustion cyclic variability in HSDI diesel engine using ethanol-diesel fuel blends. <i>Fuel</i> , 2008 , 87, 1478-1491	7.1	79
137	Investigating the EGR rate and temperature impact on diesel engine combustion and emissions under various injection timings and loads by comprehensive two-zone modeling. <i>Energy</i> , 2018 , 157, 990-1014	7.9	78
136	Generation of combustion irreversibilities in a spark ignition engine under biogas-hydrogen mixtures fueling. <i>International Journal of Hydrogen Energy</i> , 2009 , 34, 4422-4437	6.7	77
135	Investigation of the combustion of neat cottonseed oil or its neat bio-diesel in a HSDI diesel engine by experimental heat release and statistical analyses. <i>Fuel</i> , 2010 , 89, 3814-3826	7.1	77
134	The combustion of n-butanol/diesel fuel blends and its cyclic variability in a direct injection diesel engine. <i>Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy</i> , 2011 , 225, 289-308	1.6	75
133	Availability analysis of a syngas fueled spark ignition engine using a multi-zone combustion model. <i>Energy</i> , 2008 , 33, 1378-1398	7.9	74
132	Thermodynamic Analysis of Indirect Injection Diesel Engines by Two-Zone Modeling of Combustion. <i>Journal of Engineering for Gas Turbines and Power</i> , 1990 , 112, 138-149	1.7	74

131	Hydrogen enrichment effects on the second law analysis of natural and landfill gas combustion in engine cylinders. <i>International Journal of Hydrogen Energy</i> , 2006 , 31, 1384-1393	6.7	73
130	Development and validation of a comprehensive two-zone model for combustion and emissions formation in a DI diesel engine. <i>International Journal of Energy Research</i> , 2003 , 27, 1221-1249	4.5	73
129	A fast algorithm for calculating the composition of diesel combustion products using 11 species chemical equilibrium scheme. <i>Advances in Engineering Software</i> , 1994 , 19, 109-119	3.6	73
128	Development and validation of a multi-zone combustion model for performance and nitric oxide formation in syngas fueled spark ignition engine. <i>Energy Conversion and Management</i> , 2008 , 49, 2924-2938	10.6	72
127	Experimental comparative assessment of butanol or ethanol diesel-fuel extenders impact on combustion features, cyclic irregularity, and regulated emissions balance in heavy-duty diesel engine. <i>Energy</i> , 2019 , 174, 1145-1157	7.9	69
126	Comparative Evaluation of Ethanol, n-Butanol, and Diethyl Ether Effects as Biofuel Supplements on Combustion Characteristics, Cyclic Variations, and Emissions Balance in Light-Duty Diesel Engine. <i>Journal of Energy Engineering - ASCE</i> , 2017 , 143, 04016044	1.7	67
125	Evaluation of the effect of engine, load and turbocharger parameters on transient emissions of diesel engine. <i>Energy Conversion and Management</i> , 2009 , 50, 2381-2393	10.6	66
124	Experimental and theoretical study of the short term response temperature transients in the cylinder walls of a diesel engine at various operating conditions. <i>Applied Thermal Engineering</i> , 2004 , 24, 679-702	5.8	63
123	Combustion noise radiation during dynamic diesel engine operation including effects of various biofuel blends: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2016 , 54, 1099-1113	16.2	62
122	Investigating the effect of crevice flow on internal combustion engines using a new simple crevice model implemented in a CFD code. <i>Applied Energy</i> , 2011 , 88, 111-126	10.7	62
121	Investigation of piston bowl geometry and speed effects in a motored HSDI diesel engine using a CFD against a quasi-dimensional model. <i>Energy Conversion and Management</i> , 2010 , 51, 470-484	10.6	61
120	Evaluation of a spark ignition engine cycle using first and second law analysis techniques. <i>Energy Conversion and Management</i> , 1993 , 34, 1299-1314	10.6	61
119	Theoretical study of the effects of engine parameters on performance and emissions of a pilot ignited natural gas diesel engine?. <i>Energy</i> , 2010 , 35, 1129-1138	7.9	59
118	Experimental instantaneous heat fluxes in the cylinder head and exhaust manifold of an air-cooled diesel engine. <i>Energy Conversion and Management</i> , 2000 , 41, 1265-1281	10.6	56
117	Methane/hydrogen fueling a spark-ignition engine for studying NO, CO and HC emissions with a research CFD code. <i>Fuel</i> , 2016 , 185, 903-915	7.1	55
116	Development of cumulative and availability rate balances in a multi-cylinder turbocharged indirect injection Diesel engine. <i>Energy Conversion and Management</i> , 1997 , 38, 347-369	10.6	55
115	A combined experimental and theoretical study of diesel fuel injection timing and gaseous fuel/diesel mass ratio effects on the performance and emissions of natural gas-diesel HDDI engine operating at various loads. <i>Fuel</i> , 2017 , 202, 675-687	7.1	54
114	Cooling dominated Hybrid Ground Source Heat Pump System application. <i>Applied Energy</i> , 2012 , 94, 41-47	10.7	54

113	Multi-Zone Combustion Modelling for the Prediction of Pollutants Emissions and Performance of DI Diesel Engines 1997 ,		53
112	Simulation and exergy analysis of transient diesel-engine operation. <i>Energy</i> , 1997 , 22, 875-885	7.9	52
111	Evaluation of a combustion model for the simulation of hydrogen spark-ignition engines using a CFD code. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 12545-12560	6.7	49
110	Availability analysis of a turbocharged diesel engine operating under transient load conditions. <i>Energy</i> , 2004 , 29, 1085-1104	7.9	48
109	CFD modeling and experimental study of combustion and nitric oxide emissions in hydrogen-fueled spark-ignition engine operating in a very wide range of EGR rates. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 10917-10934	6.7	46
108	Review of Thermodynamic Diesel Engine Simulations under Transient Operating Conditions 2006 ,		45
107	Operational and Environmental Evaluation of Diesel Engines Burning Oxygen-Enriched Intake Air or Oxygen-Enriched Fuels: A Review 2004 ,		44
106	A simulation analysis of a DI diesel engine fuel injection system fitted with a constant pressure valve. <i>Energy Conversion and Management</i> , 1996 , 37, 135-150	10.6	43
105	Assessment of NOx Emissions during Transient Diesel Engine Operation with Biodiesel Blends. <i>Journal of Energy Engineering - ASCE</i> , 2014 , 140,	1.7	42
104	Analysis of combustion and pollutants formation in a direct injection diesel engine using a multi-zone model. <i>International Journal of Energy Research</i> , 1995 , 19, 63-88	4.5	42
103	Development and Validation of a 3-D Multi-Zone Combustion Model for the Prediction of DI Diesel Engines Performance and Pollutants Emissions 1998 ,		41
102	Combustion and Performance Characteristics of a DI Diesel Engine Operating from Low to High Natural Gas Supplement Ratios at Various Operating Conditions 2008 ,		40
101	A combined experimental and numerical study of thermal processes, performance and nitric oxide emissions in a hydrogen-fueled spark-ignition engine. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 5163-5180	6.7	38
100	A stochastic-experimental investigation of the cyclic pressure variation in a di single-cylinder diesel engine. <i>International Journal of Energy Research</i> , 1992 , 16, 865-877	4.5	37
99	Availability accumulation and destruction in a DI diesel engine with special reference to the limited cooled case. <i>Heat Recovery Systems & CHP</i> , 1993 , 13, 261-276		37
98	Evaluating Oxygenated Fuel's Influence on Combustion and Emissions in Diesel Engines Using a Two-Zone Combustion Model. <i>Journal of Energy Engineering - ASCE</i> , 2018 , 144, 04018046	1.7	35
97	Influence of ambient temperature and humidity on the performance and emissions of nitric oxide and smoke of high speed diesel engines in the Athens/Greece region. <i>Energy Conversion and Management</i> , 1991 , 31, 447-458	10.6	35
96	Study of the short-term cylinder wall temperature oscillations during transient operation of a turbo-charged diesel engine with various insulation schemes. <i>International Journal of Engine Research</i> , 2008 , 9, 177-193	2.7	33

95	Investigation of nitric oxide emission mechanisms in a SI engine fueled with methane/hydrogen blends using a research CFD code. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 15088-15104	6.7	32
94	Study of combustion in a divided chamber turbocharged diesel engine by experimental heat release analysis in its chambers. <i>Applied Thermal Engineering</i> , 2006 , 26, 1611-1620	5.8	32
93	Cylinder wall temperature effects on the transient performance of a turbocharged Diesel engine. <i>Energy Conversion and Management</i> , 2004 , 45, 2627-2638	10.6	32
92	Comparative first- and second-law parametric study of transient diesel engine operation. <i>Energy</i> , 2006 , 31, 1927-1942	7.9	31
91	The operation of a turbulence chamber diesel engine with LPG fumigation for exhaust emissions control. <i>Forschung Im Ingenieurwesen/Engineering Research</i> , 1986 , 52, 185-190	0.8	31
90	Experimental study of combustion noise radiation during transient turbocharged diesel engine operation. <i>Energy</i> , 2011 , 36, 4983-4995	7.9	30
89	The Effect of Various Dynamic, Thermodynamic and Design Parameters on the Performance of a Turbocharged Diesel Engine Operating under Transient Load Conditions 2004 ,		28
88	Numerical Investigation into the Formation of CO and Oxygenated and Nonoxygenated Hydrocarbon Emissions from Isooctane- and Ethanol-Fueled HCCI Engines. <i>Energy & Fuels</i> , 2010 , 24, 1655-1667	4.1	26
87	Components heat transfer studies in a low heat rejection DI diesel engine using a hybrid thermostructural finite element model. <i>Applied Thermal Engineering</i> , 1998 , 18, 301-316	5.8	26
86	Study of the steady and transient temperature field and heat flow in the combustion chamber components of a medium speed diesel engine using finite element analyses. <i>International Journal of Energy Research</i> , 1996 , 20, 437-464	4.5	26
85	Olive oil as a fuel supplement in DI and IDI diesel engines. <i>Energy</i> , 1992 , 17, 787-790	7.9	26
84	Comparative performance and emission studies for vaporized diesel fuel and gasoline as supplements in swirl-chamber diesel engines. <i>Energy</i> , 1990 , 15, 1153-1160	7.9	25
83	Heat transfer in hcci phenomenological simulation models: A review. <i>Applied Energy</i> , 2016 , 181, 179-209	10.7	25
82	Experimental Assessment of Turbocharged Diesel Engine Transient Emissions during Acceleration, Load Change and Starting 2010 ,		24
81	Heat transfer and crevice flow in a hydrogen-fueled spark-ignition engine: Effect on the engine performance and NO exhaust emissions. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 7477-7489	6.7	23
80	Comparative Evaluation of Two Straight Vegetable Oils and Their Methyl Ester Biodiesels as Fuel Extenders in HDDI Diesel Engines: Performance and Emissions. <i>Journal of Energy Engineering - ASCE</i> , 2014 , 140,	1.7	23
79	Evaluation of a new computational fluid dynamics model for internal combustion engines using hydrogen under motoring conditions. <i>Energy</i> , 2009 , 34, 2158-2166	7.9	23
78	Combustion noise radiation during the acceleration of a turbocharged diesel engine operating with biodiesel or n-butanol diesel fuel blends. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2012 , 226, 971-986	1.4	23

77	Investigation of the temperature oscillations in the cylinder walls of a diesel engine with special reference to the limited cooled case. <i>International Journal of Energy Research</i> , 2004 , 28, 977-1002	4.5	23
76	Comparative analysis of three simulation models applied on a motored internal combustion engine. <i>Energy Conversion and Management</i> , 2012 , 60, 45-55	10.6	22
75	Characteristics of the performance and emissions of a HSDI diesel engine running with cottonseed oil or its methyl ester and their blends with diesel fuel. <i>International Journal of Vehicle Design</i> , 2007 , 45, 200	2.4	22
74	The influence of cylinder wall temperature profile on the second-law diesel engine transient response. <i>Applied Thermal Engineering</i> , 2005 , 25, 1779-1795	5.8	22
73	Ambient temperature and humidity effects on the performance and nitric oxide emission of spark ignition engines in Athens/Greece. <i>Solar & Wind Technology</i> , 1988 , 5, 315-320		21
72	Experimental and simulation analysis of the transient operation of a turbocharged multi-cylinder IDI diesel engine. <i>International Journal of Energy Research</i> , 1998 , 22, 317-331	4.5	20
71	A FORTRAN program for calculating the evaporation rates in diesel engine fuel sprays. <i>Advances in Engineering Software</i> , 1992 , 15, 67-71	3.6	20
70	The influence of the exhaust system unsteady gas flow and insulation on the performance of a turbocharged diesel engine. <i>Heat Recovery Systems & CHP</i> , 1995 , 15, 51-72		19
69	Sensitivity analysis of transient diesel engine simulation. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2006 , 220, 89-101	1.4	18
68	Measurements and analysis of load and speed effects on the instantaneous wall heat fluxes in a direct injection air-cooled diesel engine. <i>International Journal of Energy Research</i> , 2000 , 24, 587-604	4.5	18
67	Development of a Detailed Friction Model to Predict Mechanical Losses at Elevated Maximum Combustion Pressures 2001 ,		18
66	Analysis of combustion chamber insulation effects on the performance and exhaust emissions of a DI diesel engine using a multi-zone model. <i>Heat Recovery Systems & CHP</i> , 1995 , 15, 691-706		18
65	Combustion and Emissions in an HSDI Engine Running on Diesel or Vegetable Oil Base Fuel with n-Butanol or Diethyl Ether As a Fuel Extender. <i>Journal of Energy Engineering - ASCE</i> , 2016 , 142,	1.7	17
64	A parametric investigation of hydrogen hcci combustion using a multi-zone model approach. <i>Energy Conversion and Management</i> , 2007 , 48, 2934-2941	10.6	17
63	Experimental evaluation of local instantaneous heat transfer characteristics in the combustion chamber of air-cooled direct injection diesel engine. <i>Energy</i> , 2008 , 33, 1084-1099	7.9	17
62	CFD-based method with an improved ignition model for estimating cyclic variability in a spark-ignition engine fueled with methane. <i>Energy Conversion and Management</i> , 2018 , 174, 769-778	10.6	17
61	Thermodynamic Analysis of SI Engine Operation on Variable Composition Biogas-Hydrogen Blends Using a Quasi-Dimensional, Multi-Zone Combustion Model. <i>SAE International Journal of Engines</i> , 2009 , 2, 880-910	2.4	16
60	Phasing cylinder pressure to crank angle in a direct injection diesel engine, by simulation of compression curve and elaboration of measured pressure data. <i>Forschung Im Ingenieurwesen/Engineering Research</i> , 1991 , 57, 87-95	0.8	16

59	A model of the energy fluxes in a solar heated swimming pool and its experimental validation. <i>Energy Conversion and Management</i> , 1987 , 27, 189-195	10.6	16
58	Experimental Study of Transient Nitric Oxide, Smoke, and Combustion Noise Emissions during Acceleration of an Automotive Turbocharged Diesel Engine. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2011 , 225, 260-279	1.4	15
57	Prediction of friction development during transient diesel engine operation using a detailed model. <i>International Journal of Vehicle Design</i> , 2007 , 44, 143	2.4	15
56	Alternative refrigerants for the heat pump of a ground source heat pump system. <i>Applied Thermal Engineering</i> , 2016 , 100, 768-774	5.8	14
55	Investigation of turbocharged diesel engine operation, exhaust emissions, and combustion noise radiation during starting under cold, warm, and hot conditions. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2011 , 225, 1118-1133	1.4	14
54	Studying the effects of hydrogen addition on the second-law balance of a biogas-fuelled spark ignition engine by use of a quasi-dimensional multi-zone combustion model. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2008 , 222, 2249-2268	1.4	14
53	Performance and emissions of a methane-fueled spark-ignition engine under consideration of its cyclic variability by using a computational fluid dynamics code. <i>Fuel</i> , 2019 , 258, 116154	7.1	13
52	Computational Fluid Dynamics Study of Alternative Nitric-Oxide Emission Mechanisms in a Spark-Ignition Engine Fueled with Hydrogen and Operating in a Wide Range of Exhaust Gas Recirculation Rates for Load Control. <i>Journal of Energy Engineering - ASCE</i> , 2015 , 141,	1.7	13
51	Theoretical Study of the Effects of Spark Timing on the Performance and Emissions of a Light-Duty Spark Ignited Engine Running under Either Gasoline or Ethanol or Butanol Fuel Operating Modes. <i>Energies</i> , 2017 , 10, 1198	3.1	13
50	Numerical Evaluation of the Effects of Compression Ratio and Diesel Fuel Injection Timing on the Performance and Emissions of a Fumigated Natural GasDiesel Dual-Fuel Engine. <i>Journal of Energy Engineering - ASCE</i> , 2016 , 142,	1.7	13
49	Parametric Study of Transient Turbocharged Diesel Engine Operation from the Second-Law Perspective 2004 ,		12
48	Comparative Environmental Evaluation of JP-8 and Diesel Fuels Burned in Direct Injection (DI) or Indirect Injection (IDI) Diesel Engines and in a Laboratory Furnace. <i>Energy & Fuels</i> , 2004 , 18, 1302-1308	4.1	12
47	Development of New 3-D Multi-Zone Combustion Model for Indirect Injection Diesel Engines with a Swirl Type Prechamber 2000 ,		12
46	Parametric Study of the Availability Balance in an Internal Combustion Engine Cylinder 2001 ,		12
45	Prechamber and main chamber insulation effects on the performance of an IDI diesel engine coupled to power turbine. <i>Heat Recovery Systems & CHP</i> , 1992 , 12, 247-256		12
44	Borehole Resistance and Heat Conduction Around Vertical Ground Heat Exchangers. <i>Open Chemical Engineering Journal</i> , 2012 , 6, 32-40	1.2	12
43	Combustion Instability during Starting of Turbocharged Diesel Engine Including Biofuel Effects. <i>Journal of Energy Engineering - ASCE</i> , 2017 , 143, 04016047	1.7	11
42	An Integrated Transient Analysis Simulation Model Applied in Thermal Loading Calculations of an Air-Cooled Diesel Engine Under Variable Speed and Load Conditions 1997 ,		11

41	An experimental investigation of fuel-injection-pressure and engine-speed effects on the performance and emission characteristics of a divided-chamber diesel engine. <i>International Journal of Energy Research</i> , 1993 , 17, 315-326	4.5	11
40	Performance and emission characteristics of a diesel engine using supplementary diesel fuel fumigated to the intake air. <i>Heat Recovery Systems & CHP</i> , 1989 , 9, 457-465		11
39	Thermodynamic analysis of a divided combustion chamber diesel engine. <i>Forschung Im Ingenieurwesen/Engineering Research</i> , 1988 , 54, 73-81	0.8	11
38	Theoretical Study Concerning the Effect of Oxygenated Fuels on DI Diesel Engine Performance and Emissions 2004 ,		10
37	A digital simulation of the exhaust nitric oxide and soot formation histories in the combustion chambers of a swirl chamber diesel engine. <i>Forschung Im Ingenieurwesen/Engineering Research</i> , 1990 , 56, 22-32	0.8	10
36	Computational fluid dynamics investigation of alternative nitric oxide emission mechanisms in a hydrogen-fueled spark-ignition engine. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 11774-11791	6.7	9
35	Special Issue on Innovative Technologies on Combustion of Biofuels in Engines: Issues and Challenges. <i>Journal of Energy Engineering - ASCE</i> , 2014 , 140,	1.7	9
34	The maximum compression pressure position relative to top dead centre as an indication of engine cylinder condition and blowby. <i>Energy Conversion and Management</i> , 1994 , 35, 857-870	10.6	9
33	A FORTRAN program for calculating the thermodynamic and transport properties of diesel fuel. <i>Advances in Engineering Software (1978)</i> , 1990 , 12, 190-196		9
32	Combustion Analysis of a Spark-Ignition Engine Fueled on Methane-Hydrogen Blend with Variable Equivalence Ratio Using a Computational Fluid Dynamics Code. <i>Journal of Energy Engineering - ASCE</i> , 2016 , 142,	1.7	8
31	Experimental Investigation of Instantaneous Cyclic Heat Transfer in the Combustion Chamber and Exhaust Manifold of a DI Diesel Engine under Transient Operating Conditions 2009 ,		8
30	A Simulation Analysis of the Effect of Governor Technical Characteristics and Type on the Transient Performance of a Naturally Aspirated IDI Diesel Engine 1997 ,		8
29	Sensitivity Analysis of Multi-Zone Modeling for Combustion and Emissions Formation in Diesel Engines 2006 ,		8
28	Study of the Transient Behavior of Turbocharged Diesel Engines Including Compressor Surging Using a Linearized Quasi-Steady Analysis 2005 ,		8
27	Advanced Combustion and Fuel Technologies for Economical and Environmentally Friendly Power Generation in Engines and Power Plants: Issues and Challenges. <i>Journal of Energy Engineering - ASCE</i> , 2016 , 142,	1.7	8
26	Special Issue on Contemporary Combustion Experimentation and Modeling for Clean and Efficient Power Generation: Issues and Challenges. <i>Journal of Energy Engineering - ASCE</i> , 2015 , 141,	1.7	7
25	Experimental Heat Release Rate Analysis in Both Chambers of an Indirect Injection Turbocharged Diesel Engine at Various Load and Speed Conditions 2005 ,		7
24	Modeling the Structural Thermal Response of an Air-Cooled Diesel Engine under Transient Operation Including a Detailed Thermodynamic Description of Boundary Conditions 1998 ,		7

23	A computer program for simulating the steady-state and transient behaviour of direct-acting engine governors. <i>Advances in Engineering Software</i> , 1999 , 30, 281-289	3.6	7
22	An experimental-stochastic and theoretical analysis of the density wave instability in a helical monotube vapour generator. <i>Nuclear Engineering and Design</i> , 1980 , 56, 369-384	1.8	7
21	Evaluation of Various Dynamic Issues During Transient Operation of Turbocharged Diesel Engine with Special Reference to Friction Development 2007 ,		6
20	Application of a Multi-Zone Combustion Model for the Prediction of Large Scale Marine Diesel Engines Performance and Pollutants Emissions 1999 ,		6
19	A Fast CFD-Based Methodology for Determining the Cyclic Variability and Its Effects on Performance and Emissions of Spark-Ignition Engines. <i>Energies</i> , 2019 , 12, 4131	3.1	6
18	Effects of Boost Pressure and Spark Timing on Performance and Exhaust Emissions in a Heavy-Duty Spark-Ignited Wood-Gas Engine. <i>Journal of Energy Engineering - ASCE</i> , 2015 , 141,	1.7	5
17	Effects of transient diesel engine operation on its cyclic heat transfer: an experimental assessment. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2009 , 223, 1373-1394	1.4	5
16	Experimental Assessment of Instantaneous Heat Transfer in the Combustion Chamber and Exhaust Manifold Walls of Air-Cooled Direct Injection Diesel Engine. <i>SAE International Journal of Engines</i> , 2008 , 1, 888-912	2.4	5
15	The Effect of Friction Modelling on the Prediction of Turbocharged Diesel Engine Transient Operation 2004 ,		5
14	Modeling the Effects of EGR on a Heavy Duty DI Diesel Engine Using a new Quasi-Dimensional Combustion Model 2005 ,		5
13	A theoretical and experimental investigation of thermosyphon solar domestic water heaters, with indirect heating, under hot water withdrawal conditions. <i>Energy Conversion and Management</i> , 1986 , 26, 95-101	10.6	5
12	Heat flux-flow coupling effects in the stability of vapour generators. <i>Heat and Mass Transfer</i> , 1980 , 13, 275-286		5
11	Evaluation of the Air Oxygen Enrichment Effects on Combustion and Emissions of Natural Gas/Diesel Dual-Fuel Engines at Various Loads and Pilot Fuel Quantities. <i>Energies</i> , 2018 , 11, 3028	3.1	4
10	Numerical and Experimental Study by Quasi-Dimensional Modeling of Combustion and Emissions in Variable Compression Ratio High-Speed Spark-Ignition Engine. <i>Journal of Energy Engineering - ASCE</i> , 2021 , 147, 04021032	1.7	4
9	Study of crankshaft torsional deformation under steady-state and transient operation of turbocharged diesel engines. <i>Proceedings of the Institution of Mechanical Engineers, Part K: Journal of Multi-body Dynamics</i> , 2008 , 222, 17-30	0.9	3
8	Application and Evaluation of a Detailed Friction Model on a DI Diesel Engine with Extremely High Peak Combustion Pressures 2002 ,		3
7	Spark-Ignition Engine Fueled with Methane-Hydrogen Blends. <i>Green Energy and Technology</i> , 2016 , 405-420	4.0	2
6	Instantaneous crankshaft torsional deformation during turbocharged diesel engine operation. <i>International Journal of Vehicle Design</i> , 2010 , 54, 217	2.4	2

5	Quasi-linear versus filling and emptying modelling applied to the transient operation of a turbocharged diesel engine. <i>International Journal of Vehicle Design</i> , 2007 , 45, 150	2.4	2
4	Second-Law Analysis of Indirect Injection Turbocharged Diesel Engine Operation under Steady-State and Transient Conditions 2005 ,		2
3	Comparative Assessment of the Impact of Water Addition either to the Intake Air or in Diesel Emulsion on the Performance and Emissions of a HDDI Diesel Engine. <i>Journal of Energy Engineering - ASCE</i> , 2020 , 146, 04020051	1.7	2
2	Analysis and evaluation of the thermal shock phenomena in the in-cylinder surfaces of a DI diesel engine during its transient operation. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2011 , 225, 1265-1289	1.4	1
1	Auxiliary power supply mode and water draw profile effects on the performance of thermosiphonic solar heaters with heat exchanger. <i>Solar & Wind Technology</i> , 1989 , 6, 595-604		1