

# Constantine Rakopoulos

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/3055224/constantine-rakopoulos-publications-by-year.pdf>

**Version:** 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

166  
papers

8,992  
citations

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	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> , <b>2021</b> , 147, 04021032	1.7	4
165	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> , <b>2020</b> , 146, 04020051	1.7	2
164	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> , <b>2019</b> , 258, 116154	7.1	13
163	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> , <b>2019</b> , 174, 1145-1157	7.9	69
162	A Fast CFD-Based Methodology for Determining the Cyclic Variability and Its Effects on Performance and Emissions of Spark-Ignition Engines. <i>Energies</i> , <b>2019</b> , 12, 4131	3.1	6
161	Evaluating Oxygenated Fuel Influence on Combustion and Emissions in Diesel Engines Using a Two-Zone Combustion Model. <i>Journal of Energy Engineering - ASCE</i> , <b>2018</b> , 144, 04018046	1.7	35
160	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> , <b>2018</b> , 11, 3028	3.1	4
159	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> , <b>2018</b> , 174, 769-778	10.6	17
158	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> , <b>2018</b> , 157, 990-1014	7.9	78
157	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> , <b>2017</b> , 202, 675-687	7.1	54
156	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> , <b>2017</b> , 10, 1198	3.1	13
155	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> , <b>2017</b> , 143, 04016044	1.7	67
154	Combustion Instability during Starting of Turbocharged Diesel Engine Including Biofuel Effects. <i>Journal of Energy Engineering - ASCE</i> , <b>2017</b> , 143, 04016047	1.7	11
153	Methane/hydrogen fueling a spark-ignition engine for studying NO, CO and HC emissions with a research CFD code. <i>Fuel</i> , <b>2016</b> , 185, 903-915	7.1	55
152	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> , <b>2016</b> , 115, 314-325	7.9	132
151	Spark-Ignition Engine Fueled with Methane-Hydrogen Blends. <i>Green Energy and Technology</i> , <b>2016</b> , 405-406		2
150	Alternative refrigerants for the heat pump of a ground source heat pump system. <i>Applied Thermal Engineering</i> , <b>2016</b> , 100, 768-774	5.8	14

149	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> , <b>2016</b> , 142,	1.7	13
148	Combustion noise radiation during dynamic diesel engine operation including effects of various biofuel blends: A review. <i>Renewable and Sustainable Energy Reviews</i> , <b>2016</b> , 54, 1099-1113	16.2	62
147	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> , <b>2016</b> , 142,	1.7	8
146	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> , <b>2016</b> , 142,	1.7	17
145	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> , <b>2016</b> , 142,	1.7	8
144	Heat transfer in hcci phenomenological simulation models: A review. <i>Applied Energy</i> , <b>2016</b> , 181, 179-209	10.7	25
143	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> , <b>2015</b> , 141,	1.7	13
142	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> , <b>2015</b> , 141,	1.7	5
141	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> , <b>2015</b> , 156, 1-19	7.1	178
140	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> , <b>2015</b> , 40, 15088-15104	6.7	32
139	Special Issue on Contemporary Combustion Experimentation and Modeling for Clean and Efficient Power Generation: Issues and Challenges. <i>Journal of Energy Engineering - ASCE</i> , <b>2015</b> , 141,	1.7	7
138	Computational fluid dynamics investigation of alternative nitric oxide emission mechanisms in a hydrogen-fueled spark-ignition engine. <i>International Journal of Hydrogen Energy</i> , <b>2014</b> , 39, 11774-11791	6.7	9
137	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> , <b>2014</b> , 73, 354-366	7.9	246
136	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> , <b>2014</b> , 140,	1.7	23
135	Special Issue on Innovative Technologies on Combustion of Biofuels in Engines: Issues and Challenges. <i>Journal of Energy Engineering - ASCE</i> , <b>2014</b> , 140,	1.7	9
134	Assessment of NOx Emissions during Transient Diesel Engine Operation with Biodiesel Blends. <i>Journal of Energy Engineering - ASCE</i> , <b>2014</b> , 140,	1.7	42
133	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> , <b>2013</b> , 38, 7477-7489	6.7	23
132	Studying combustion and cyclic irregularity of diethyl ether as supplement fuel in diesel engine. <i>Fuel</i> , <b>2013</b> , 109, 325-335	7.1	106

131	Exhaust emissions with ethanol or n-butanol diesel fuel blends during transient operation: A review. <i>Renewable and Sustainable Energy Reviews</i> , <b>2013</b> , 17, 170-190	16.2	221
130	Comparative analysis of three simulation models applied on a motored internal combustion engine. <i>Energy Conversion and Management</i> , <b>2012</b> , 60, 45-55	10.6	22
129	Modeling HCCI combustion of biofuels: A review. <i>Renewable and Sustainable Energy Reviews</i> , <b>2012</b> , 16, 1588-1610	16.2	101
128	Exhaust emissions of diesel engines operating under transient conditions with biodiesel fuel blends. <i>Progress in Energy and Combustion Science</i> , <b>2012</b> , 38, 691-715	33.6	227
127	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> , <b>2012</b> , 37, 10917-10934	6.7	46
126	Characteristics of performance and emissions in high-speed direct injection diesel engine fueled with diethyl ether/diesel fuel blends. <i>Energy</i> , <b>2012</b> , 43, 214-224	7.9	185
125	Cooling dominated Hybrid Ground Source Heat Pump System application. <i>Applied Energy</i> , <b>2012</b> , 94, 41-47	10.7	54
124	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> , <b>2012</b> , 226, 971-986	1.4	23
123	Borehole Resistance and Heat Conduction Around Vertical Ground Heat Exchangers. <i>Open Chemical Engineering Journal</i> , <b>2012</b> , 6, 32-40	1.2	12
122	Experimental study of combustion noise radiation during transient turbocharged diesel engine operation. <i>Energy</i> , <b>2011</b> , 36, 4983-4995	7.9	30
121	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> , <b>2011</b> , 90, 3439-3446	7.1	103
120	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> , <b>2011</b> , 88, 111-126	10.7	62
119	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> , <b>2011</b> , 88, 3905-3916	10.7	174
118	Combustion heat release analysis of ethanol or n-butanol diesel fuel blends in heavy-duty DI diesel engine. <i>Fuel</i> , <b>2011</b> , 90, 1855-1867	7.1	259
117	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> , <b>2011</b> , 36, 5163-5180	6.7	38
116	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> , <b>2011</b> , 225, 260-279	1.4	15
115	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> , <b>2011</b> , 225, 1118-1133	1.4	14
114	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> , <b>2011</b> , 225, 289-308	1.6	75

113	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> , <b>2011</b> , 225, 1265-1289	1.4	1
112	Experimental Assessment of Turbocharged Diesel Engine Transient Emissions during Acceleration, Load Change and Starting <b>2010</b> ,		24
111	Numerical Investigation into the Formation of CO and Oxygenated and Nonoxygenated Hydrocarbon Emissions from Isooctane- and Ethanol-Fueled HCCI Engines. <i>Energy &amp; Fuels</i> , <b>2010</b> , 24, 1655-1667	4.1	26
110	Instantaneous crankshaft torsional deformation during turbocharged diesel engine operation. <i>International Journal of Vehicle Design</i> , <b>2010</b> , 54, 217	2.4	2
109	Theoretical study of the effects of engine parameters on performance and emissions of a pilot ignited natural gas diesel engine?. <i>Energy</i> , <b>2010</b> , 35, 1129-1138	7.9	59
108	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> , <b>2010</b> , 51, 470-484	10.6	61
107	Effects of butanol/diesel fuel blends on the performance and emissions of a high-speed DI diesel engine. <i>Energy Conversion and Management</i> , <b>2010</b> , 51, 1989-1997	10.6	443
106	Emission characteristics of high speed, dual fuel, compression ignition engine operating in a wide range of natural gas/diesel fuel proportions. <i>Fuel</i> , <b>2010</b> , 89, 1397-1406	7.1	287
105	Investigation of the performance and emissions of bus engine operating on butanol/diesel fuel blends. <i>Fuel</i> , <b>2010</b> , 89, 2781-2790	7.1	241
104	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> , <b>2010</b> , 89, 3814-3826	7.1	77
103	Evaluation of a combustion model for the simulation of hydrogen spark-ignition engines using a CFD code. <i>International Journal of Hydrogen Energy</i> , <b>2010</b> , 35, 12545-12560	6.7	49
102	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> , <b>2010</b> , 87, 1612-1630	10.7	107
101	Investigating the emissions during acceleration of a turbocharged diesel engine operating with bio-diesel or n-butanol diesel fuel blends. <i>Energy</i> , <b>2010</b> , 35, 5173-5184	7.9	142
100	Experimental Investigation of Instantaneous Cyclic Heat Transfer in the Combustion Chamber and Exhaust Manifold of a DI Diesel Engine under Transient Operating Conditions <b>2009</b> ,		8
99	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> , <b>2009</b> , 223, 1373-1394	1.4	5
98	Evaluation of the effect of engine, load and turbocharger parameters on transient emissions of diesel engine. <i>Energy Conversion and Management</i> , <b>2009</b> , 50, 2381-2393	10.6	66
97	Generation of combustion irreversibilities in a spark ignition engine under biogas/hydrogen mixtures fueling. <i>International Journal of Hydrogen Energy</i> , <b>2009</b> , 34, 4422-4437	6.7	77
96	Evaluation of a new computational fluid dynamics model for internal combustion engines using hydrogen under motoring conditions. <i>Energy</i> , <b>2009</b> , 34, 2158-2166	7.9	23

95	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> , <b>2009</b> , 2, 880-910	2.4	16
94	Multi-zone modeling of combustion and emissions formation in DI diesel engine operating on ethanol/diesel fuel blends. <i>Energy Conversion and Management</i> , <b>2008</b> , 49, 625-643	10.6	103
93	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> , <b>2008</b> , 49, 2924-2938	10.6	72
92	Effects of ethanol/diesel fuel blends on the performance and exhaust emissions of heavy duty DI diesel engine. <i>Energy Conversion and Management</i> , <b>2008</b> , 49, 3155-3162	10.6	236
91	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> , <b>2008</b> , 9, 177-193	2.7	33
90	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> , <b>2008</b> , 222, 17-30	0.9	3
89	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> , <b>2008</b> , 222, 2249-2268	1.4	14
88	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> , <b>2008</b> , 1, 888-912	2.4	5
87	Combustion and Performance Characteristics of a DI Diesel Engine Operating from Low to High Natural Gas Supplement Ratios at Various Operating Conditions <b>2008</b> ,		40
86	Availability analysis of hydrogen/natural gas blends combustion in internal combustion engines. <i>Energy</i> , <b>2008</b> , 33, 248-255	7.9	89
85	Experimental evaluation of local instantaneous heat transfer characteristics in the combustion chamber of air-cooled direct injection diesel engine. <i>Energy</i> , <b>2008</b> , 33, 1084-1099	7.9	17
84	Availability analysis of a syngas fueled spark ignition engine using a multi-zone combustion model. <i>Energy</i> , <b>2008</b> , 33, 1378-1398	7.9	74
83	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> , <b>2008</b> , 87, 147-157	7.1	174
82	Experimental-stochastic investigation of the combustion cyclic variability in HSDI diesel engine using ethanol/diesel fuel blends. <i>Fuel</i> , <b>2008</b> , 87, 1478-1491	7.1	79
81	Evaluation of Various Dynamic Issues During Transient Operation of Turbocharged Diesel Engine with Special Reference to Friction Development <b>2007</b> ,		6
80	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> , <b>2007</b> , 48, 1881-1901	10.6	102
79	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> , <b>2007</b> , 48, 2951-2961	10.6	117
78	A parametric investigation of hydrogen hcci combustion using a multi-zone model approach. <i>Energy Conversion and Management</i> , <b>2007</b> , 48, 2934-2941	10.6	17

77	Experimental heat release analysis and emissions of a HSDI diesel engine fueled with ethanol-diesel fuel blends. <i>Energy</i> , <b>2007</b> , 32, 1791-1808	7.9	236
76	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> , <b>2007</b> , 45, 200	2.4	22
75	Quasi-linear versus filling and emptying modelling applied to the transient operation of a turbocharged diesel engine. <i>International Journal of Vehicle Design</i> , <b>2007</b> , 45, 150	2.4	2
74	Prediction of friction development during transient diesel engine operation using a detailed model. <i>International Journal of Vehicle Design</i> , <b>2007</b> , 44, 143	2.4	15
73	Comparative first- and second-law parametric study of transient diesel engine operation. <i>Energy</i> , <b>2006</b> , 31, 1927-1942	7.9	31
72	Hydrogen enrichment effects on the second law analysis of natural and landfill gas combustion in engine cylinders. <i>International Journal of Hydrogen Energy</i> , <b>2006</b> , 31, 1384-1393	6.7	73
71	Multi-zone modeling of Diesel engine fuel spray development with vegetable oil, bio-diesel or Diesel fuels. <i>Energy Conversion and Management</i> , <b>2006</b> , 47, 1550-1573	10.6	106
70	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> , <b>2006</b> , 47, 3272-3287	10.6	412
69	Sensitivity analysis of transient diesel engine simulation. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , <b>2006</b> , 220, 89-101	1.4	18
68	Review of Thermodynamic Diesel Engine Simulations under Transient Operating Conditions <b>2006</b> ,		45
67	Sensitivity Analysis of Multi-Zone Modeling for Combustion and Emissions Formation in Diesel Engines <b>2006</b> ,		8
66	Study of combustion in a divided chamber turbocharged diesel engine by experimental heat release analysis in its chambers. <i>Applied Thermal Engineering</i> , <b>2006</b> , 26, 1611-1620	5.8	32
65	Second-law analyses applied to internal combustion engines operation. <i>Progress in Energy and Combustion Science</i> , <b>2006</b> , 32, 2-47	33.6	312
64	The influence of cylinder wall temperature profile on the second-law diesel engine transient response. <i>Applied Thermal Engineering</i> , <b>2005</b> , 25, 1779-1795	5.8	22
63	Modeling the Effects of EGR on a Heavy Duty DI Diesel Engine Using a new Quasi-Dimensional Combustion Model <b>2005</b> ,		5
62	Second-Law Analysis of Indirect Injection Turbocharged Diesel Engine Operation under Steady-State and Transient Conditions <b>2005</b> ,		2
61	Study of the Transient Behavior of Turbocharged Diesel Engines Including Compressor Surging Using a Linearized Quasi-Steady Analysis <b>2005</b> ,		8
60	Experimental Heat Release Rate Analysis in Both Chambers of an Indirect Injection Turbocharged Diesel Engine at Various Load and Speed Conditions <b>2005</b> ,		7

59	The Effect of Friction Modelling on the Prediction of Turbocharged Diesel Engine Transient Operation <b>2004</b> ,		5
58	Parametric Study of Transient Turbocharged Diesel Engine Operation from the Second-Law Perspective <b>2004</b> ,		12
57	Operational and Environmental Evaluation of Diesel Engines Burning Oxygen-Enriched Intake Air or Oxygen-Enriched Fuels: A Review <b>2004</b> ,		44
56	Theoretical Study Concerning the Effect of Oxygenated Fuels on DI Diesel Engine Performance and Emissions <b>2004</b> ,		10
55	The Effect of Various Dynamic, Thermodynamic and Design Parameters on the Performance of a Turbocharged Diesel Engine Operating under Transient Load Conditions <b>2004</b> ,		28
54	Validation and sensitivity analysis of a two zone Diesel engine model for combustion and emissions prediction. <i>Energy Conversion and Management</i> , <b>2004</b> , 45, 1471-1495	10.6	101
53	Cylinder wall temperature effects on the transient performance of a turbocharged Diesel engine. <i>Energy Conversion and Management</i> , <b>2004</b> , 45, 2627-2638	10.6	32
52	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> , <b>2004</b> , 28, 977-1002	4.5	23
51	Availability analysis of a turbocharged diesel engine operating under transient load conditions. <i>Energy</i> , <b>2004</b> , 29, 1085-1104	7.9	48
50	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> , <b>2004</b> , 24, 679-702	5.8	63
49	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 &amp; Fuels</i> , <b>2004</b> , 18, 1302-1308	4.1	12
48	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> , <b>2003</b> , 27, 1221-1249	4.5	73
47	Application and Evaluation of a Detailed Friction Model on a DI Diesel Engine with Extremely High Peak Combustion Pressures <b>2002</b> ,		3
46	Comparative second-law analysis of internal combustion engine operation for methane, methanol, and dodecane fuels. <i>Energy</i> , <b>2001</b> , 26, 705-722	7.9	110
45	Parametric Study of the Availability Balance in an Internal Combustion Engine Cylinder <b>2001</b> ,		12
44	Development of a Detailed Friction Model to Predict Mechanical Losses at Elevated Maximum Combustion Pressures <b>2001</b> ,		18
43	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> , <b>2000</b> , 24, 587-604	4.5	18
42	Experimental instantaneous heat fluxes in the cylinder head and exhaust manifold of an air-cooled diesel engine. <i>Energy Conversion and Management</i> , <b>2000</b> , 41, 1265-1281	10.6	56



41	Development of New 3-D Multi-Zone Combustion Model for Indirect Injection Diesel Engines with a Swirl Type Prechamber <b>2000</b> ,		12
40	Application of a Multi-Zone Combustion Model for the Prediction of Large Scale Marine Diesel Engines Performance and Pollutants Emissions <b>1999</b> ,		6
39	A computer program for simulating the steady-state and transient behaviour of direct-acting engine governors. <i>Advances in Engineering Software</i> , <b>1999</b> , 30, 281-289	3.6	7
38	Components heat transfer studies in a low heat rejection DI diesel engine using a hybrid thermostructural finite element model. <i>Applied Thermal Engineering</i> , <b>1998</b> , 18, 301-316	5.8	26
37	Experimental and simulation analysis of the transient operation of a turbocharged multi-cylinder IDI diesel engine. <i>International Journal of Energy Research</i> , <b>1998</b> , 22, 317-331	4.5	20
36	Development and Validation of a 3-D Multi-Zone Combustion Model for the Prediction of DI Diesel Engines Performance and Pollutants Emissions <b>1998</b> ,		41
35	Modeling the Structural Thermal Response of an Air-Cooled Diesel Engine under Transient Operation Including a Detailed Thermodynamic Description of Boundary Conditions <b>1998</b> ,		7
34	A Simulation Analysis of the Effect of Governor Technical Characteristics and Type on the Transient Performance of a Naturally Aspirated IDI Diesel Engine <b>1997</b> ,		8
33	Multi-Zone Combustion Modelling for the Prediction of Pollutants Emissions and Performance of DI Diesel Engines <b>1997</b> ,		53
32	An Integrated Transient Analysis Simulation Model Applied in Thermal Loading Calculations of an Air-Cooled Diesel Engine Under Variable Speed and Load Conditions <b>1997</b> ,		11
31	Development of cumulative and availability rate balances in a multi-cylinder turbocharged indirect injection Diesel engine. <i>Energy Conversion and Management</i> , <b>1997</b> , 38, 347-369	10.6	55
30	Simulation and exergy analysis of transient diesel-engine operation. <i>Energy</i> , <b>1997</b> , 22, 875-885	7.9	52
29	A simulation analysis of a DI diesel engine fuel injection system fitted with a constant pressure valve. <i>Energy Conversion and Management</i> , <b>1996</b> , 37, 135-150	10.6	43
28	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> , <b>1996</b> , 20, 437-464	4.5	26
27	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 &amp; CHP</i> , <b>1995</b> , 15, 691-706		18
26	Analysis of combustion and pollutants formation in a direct injection diesel engine using a multi-zone model. <i>International Journal of Energy Research</i> , <b>1995</b> , 19, 63-88	4.5	42
25	The influence of the exhaust system unsteady gas flow and insulation on the performance of a turbocharged diesel engine. <i>Heat Recovery Systems &amp; CHP</i> , <b>1995</b> , 15, 51-72		19
24	A fast algorithm for calculating the composition of diesel combustion products using 11 species chemical equilibrium scheme. <i>Advances in Engineering Software</i> , <b>1994</b> , 19, 109-119	3.6	73

23	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> , <b>1994</b> , 35, 857-870	10.6	9
22	Availability accumulation and destruction in a DI diesel engine with special reference to the limited cooled case. <i>Heat Recovery Systems &amp; CHP</i> , <b>1993</b> , 13, 261-276		37
21	Evaluation of a spark ignition engine cycle using first and second law analysis techniques. <i>Energy Conversion and Management</i> , <b>1993</b> , 34, 1299-1314	10.6	61
20	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> , <b>1993</b> , 17, 315-326	4.5	11
19	A FORTRAN program for calculating the evaporation rates in diesel engine fuel sprays. <i>Advances in Engineering Software</i> , <b>1992</b> , 15, 67-71	3.6	20
18	Prechamber and main chamber insulation effects on the performance of an IDI diesel engine coupled to power turbine. <i>Heat Recovery Systems &amp; CHP</i> , <b>1992</b> , 12, 247-256		12
17	Olive oil as a fuel supplement in DI and IDI diesel engines. <i>Energy</i> , <b>1992</b> , 17, 787-790	7.9	26
16	A stochastic-experimental investigation of the cyclic pressure variation in a di single-cylinder diesel engine. <i>International Journal of Energy Research</i> , <b>1992</b> , 16, 865-877	4.5	37
15	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> , <b>1991</b> , 31, 447-458	10.6	35
14	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> , <b>1991</b> , 57, 87-95	0.8	16
13	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> , <b>1990</b> , 56, 22-32	0.8	10
12	Comparative performance and emission studies for vaporized diesel fuel and gasoline as supplements in swirl-chamber diesel engines. <i>Energy</i> , <b>1990</b> , 15, 1153-1160	7.9	25
11	A FORTRAN program for calculating the thermodynamic and transport properties of diesel fuel. <i>Advances in Engineering Software (1978)</i> , <b>1990</b> , 12, 190-196		9
10	Thermodynamic Analysis of Indirect Injection Diesel Engines by Two-Zone Modeling of Combustion. <i>Journal of Engineering for Gas Turbines and Power</i> , <b>1990</b> , 112, 138-149	1.7	74
9	Auxiliary power supply mode and water draw profile effects on the performance of thermosiphonic solar heaters with heat exchanger. <i>Solar &amp; Wind Technology</i> , <b>1989</b> , 6, 595-604		1
8	Performance and emission characteristics of a diesel engine using supplementary diesel fuel fumigated to the intake air. <i>Heat Recovery Systems &amp; CHP</i> , <b>1989</b> , 9, 457-465		11
7	Thermodynamic analysis of a divided combustion chamber diesel engine. <i>Forschung Im Ingenieurwesen/Engineering Research</i> , <b>1988</b> , 54, 73-81	0.8	11
6	Ambient temperature and humidity effects on the performance and nitric oxide emission of spark ignition engines in Athens/Greece. <i>Solar &amp; Wind Technology</i> , <b>1988</b> , 5, 315-320		21

5	A model of the energy fluxes in a solar heated swimming pool and its experimental validation. <i>Energy Conversion and Management</i> , <b>1987</b> , 27, 189-195	10.6	16
4	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> , <b>1986</b> , 26, 95-101	10.6	5
3	The operation of a turbulence chamber diesel engine with LPG fumigation for exhaust emissions control. <i>Forschung Im Ingenieurwesen/Engineering Research</i> , <b>1986</b> , 52, 185-190	0.8	31
2	Heat flux-flow coupling effects in the stability of vapour generators. <i>Heat and Mass Transfer</i> , <b>1980</b> , 13, 275-286		5
1	An experimental-stochastic and theoretical analysis of the density wave instability in a helical monotube vapour generator. <i>Nuclear Engineering and Design</i> , <b>1980</b> , 56, 369-384	1.8	7