

Evangelos G Giakoumis

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5942497/publications.pdf>

Version: 2024-02-01

99
papers

7,110
citations

100601

38
h-index

71088

80
g-index

102
all docs

102
docs citations

102
times ranked

4324
citing authors

#	ARTICLE	IF	CITATIONS
1	A comprehensive comparative investigation of a heavy-duty vehicle's performance, consumption and emissions during eight driving cycles. <i>International Journal of Ambient Energy</i> , 2021, 42, 29-45.	1.4	5
2	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, .	1.0	22
3	Monte Carlo Simulation Methodology to Assess the Impact of Ambient Wind on Emissions from a Light-Commercial Vehicle Running on the Worldwide-Harmonized Light-Duty Vehicles Test Cycle (WLTC). <i>Energies</i> , 2021, 14, 661.	1.6	4
4	Methodology to Estimate Road Grade Effects on Consumption and Emissions from a Light Commercial Vehicle Running on the WLTC Cycle. <i>Journal of Energy Engineering - ASCE</i> , 2020, 146, .	1.0	7
5	Exergy assessment of combustion and EGR and load effects in DI diesel engine using comprehensive two-zone modeling. <i>Energy</i> , 2020, 202, 117685.	4.5	35
6	Non-regulatory parameters effect on consumption and emissions from a diesel-powered van over the WLTC. <i>Transportation Research, Part D: Transport and Environment</i> , 2019, 74, 104-123.	3.2	12
7	A Comparative Assessment of Biodiesel Cetane Number Predictive Correlations Based on Fatty Acid Composition. <i>Energies</i> , 2019, 12, 422.	1.6	65
8	Comparative evaluation of eight legislated driving schedules in terms of cycle metrics and emissions from a diesel-powered turbocharged van. <i>Transportation Research, Part D: Transport and Environment</i> , 2018, 58, 139-154.	3.2	19
9	Estimation of biodiesel cetane number, density, kinematic viscosity and heating values from its fatty acid weight composition. <i>Fuel</i> , 2018, 222, 574-585.	3.4	134
10	Analysis of 22 vegetable oils' physico-chemical properties and fatty acid composition on a statistical basis, and correlation with the degree of unsaturation. <i>Renewable Energy</i> , 2018, 126, 403-419.	4.3	118
11	Modeling a Variable-Geometry Turbocharged Diesel Engine under Steady-State and Transient Conditions. <i>Journal of Energy Engineering - ASCE</i> , 2018, 144, .	1.0	12
12	Analysis of the Effect of Vehicle, Driving and Road Parameters on the Transient Performance and Emissions of a Turbocharged Truck. <i>Energies</i> , 2018, 11, 295.	1.6	11
13	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, .	1.0	54
14	Heavy-Duty Vehicles and Engines. , 2017, , 193-284.		2
15	Driving and Engine Cycles. , 2017, , .		45
16	Non-Road Engines. , 2017, , 285-314.		0
17	Driving Cycles Test Procedure. , 2017, , 315-345.		1
18	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, .	1.0	73

#	ARTICLE	IF	CITATIONS
19	Combustion Instability during Starting of Turbocharged Diesel Engine Including Biofuel Effects. Journal of Energy Engineering - ASCE, 2017, 143, .	1.0	12
20	Investigation of a Diesel-Engined Vehicle's Performance and Emissions during the WLTC Driving Cycle Comparison with the NEDC. Energies, 2017, 10, 240.	1.6	33
21	Diesel and Spark Ignition Engines Emissions and After-Treatment Control: Research and Advancements. Energies, 2017, 10, 1882.	1.6	6
22	Light-Duty Vehicles. , 2017, , 65-166.		3
23	Review of Some Methods for Improving Transient Response in Automotive Diesel Engines through Various Turbocharging Configurations. Frontiers in Mechanical Engineering, 2016, 2, .	0.8	18
24	Combustion noise radiation during dynamic diesel engine operation including effects of various biofuel blends: A review. Renewable and Sustainable Energy Reviews, 2016, 54, 1099-1113.	8.2	79
25	Performance and Emissions of a Heavy-Duty Truck during the UDDS Driving Cycle: Simulation Analysis. Journal of Energy Engineering - ASCE, 2016, 142, .	1.0	8
26	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. Journal of Energy Engineering - ASCE, 2016, 142, .	1.0	18
27	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. Fuel, 2015, 156, 1-19.	3.4	200
28	Comparative Evaluation of Two Straight Vegetable Oils and Their Methyl Ester Biodiesels as Fuel Extenders in HDDI Diesel Engines: Performance and Emissions. Journal of Energy Engineering - ASCE, 2014, 140, .	1.0	25
29	Assessment of NOx Emissions during Transient Diesel Engine Operation with Biodiesel Blends. Journal of Energy Engineering - ASCE, 2014, 140, .	1.0	47
30	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. Energy, 2014, 73, 354-366.	4.5	268
31	A statistical investigation of biodiesel physical and chemical properties, and their correlation with the degree of unsaturation. Renewable Energy, 2013, 50, 858-878.	4.3	297
32	Studying combustion and cyclic irregularity of diethyl ether as supplement fuel in diesel engine. Fuel, 2013, 109, 325-335.	3.4	117
33	Exhaust emissions with ethanol or n-butanol diesel fuel blends during transient operation: A review. Renewable and Sustainable Energy Reviews, 2013, 17, 170-190.	8.2	245
34	Combustion noise radiation during the acceleration of a turbocharged diesel engine operating with biodiesel or n-butanol diesel fuel blends. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2012, 226, 971-986.	1.1	24
35	Development of combustion instability and noise during starting of a truck turbocharged diesel engine. International Journal of Vehicle Design, 2012, 59, 272.	0.1	1
36	Exhaust emissions of diesel engines operating under transient conditions with biodiesel fuel blends. Progress in Energy and Combustion Science, 2012, 38, 691-715.	15.8	272

#	ARTICLE	IF	CITATIONS
37	A statistical investigation of biodiesel effects on regulated exhaust emissions during transient cycles. <i>Applied Energy</i> , 2012, 98, 273-291.	5.1	53
38	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.	4.5	208
39	Experimental study of combustion noise radiation during transient turbocharged diesel engine operation. <i>Energy</i> , 2011, 36, 4983-4995.	4.5	35
40	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.	3.4	121
41	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.	5.1	201
42	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.	1.1	15
43	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.	1.1	16
44	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.	0.8	82
45	Instantaneous crankshaft torsional deformation during turbocharged diesel engine operation. <i>International Journal of Vehicle Design</i> , 2010, 54, 217.	0.1	3
46	Study of diesel engine performance and emissions during a Transient Cycle applying an engine mapping-based methodology. <i>Applied Energy</i> , 2010, 87, 1358-1365.	5.1	58
47	Diesel-engined vehicle nitric oxide and soot emissions during the European light-duty driving cycle using a transient mapping approach. <i>Transportation Research, Part D: Transport and Environment</i> , 2010, 15, 134-143.	3.2	34
48	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.	4.4	516
49	Comparative study of turbocharged diesel engine emissions during three different Transient Cycles. <i>International Journal of Energy Research</i> , 2010, 34, 1002-1015.	2.2	12
50	Investigation of the performance and emissions of bus engine operating on butanol/diesel fuel blends. <i>Fuel</i> , 2010, 89, 2781-2790.	3.4	275
51	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.	3.4	86
52	Lubricating oil effects on the transient performance of a turbocharged diesel engine. <i>Energy</i> , 2010, 35, 864-873.	4.5	23
53	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.	4.5	160
54	Experimental Assessment of Turbocharged Diesel Engine Transient Emissions during Acceleration, Load Change and Starting. , 2010, , .		33

#	ARTICLE	IF	CITATIONS
55	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.	4.4	73
56	Exhaust emissions estimation during transient turbocharged diesel engine operation using a two-zone combustion model. <i>International Journal of Vehicle Design</i> , 2009, 49, 125.	0.1	20
57	Availability analysis of hydrogen/natural gas blends combustion in internal combustion engines. <i>Energy</i> , 2008, 33, 248-255.	4.5	113
58	Availability analysis of a syngas fueled spark ignition engine using a multi-zone combustion model. <i>Energy</i> , 2008, 33, 1378-1398.	4.5	88
59	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.	3.4	201
60	Experimental-stochastic investigation of the combustion cyclic variability in HSDI diesel engine using ethanol-diesel fuel blends. <i>Fuel</i> , 2008, 87, 1478-1491.	3.4	86
61	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.	4.4	273
62	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.	1.4	40
63	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.	0.5	9
64	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.	1.1	17
65	Study of the performance and exhaust emissions of a spark-ignited engine operating on syngas fuel. <i>International Journal of Alternative Propulsion</i> , 2007, 1, 190.	0.9	41
66	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.	0.1	3
67	A computational study of compressor surge during transient operation of turbocharged diesel engines. <i>International Journal of Alternative Propulsion</i> , 2007, 1, 250.	0.9	7
68	Prediction of friction development during transient diesel engine operation using a detailed model. <i>International Journal of Vehicle Design</i> , 2007, 44, 143.	0.1	19
69	Irreversibility production during transient operation of a turbocharged diesel engine. <i>International Journal of Vehicle Design</i> , 2007, 45, 128.	0.1	9
70	Evaluation of Various Dynamic Issues During Transient Operation of Turbocharged Diesel Engine with Special Reference to Friction Development. , 2007, , .		12
71	Study of the Transient Operation of Low Heat Rejection Turbocharged Diesel Engine Including Wall Temperature Oscillations. , 2007, , .		6
72	Cylinder wall insulation effects on the first- and second-law balances of a turbocharged diesel engine operating under transient load conditions. <i>Energy Conversion and Management</i> , 2007, 48, 2925-2933.	4.4	44

#	ARTICLE	IF	CITATIONS
73	Study of combustion in a divided chamber turbocharged diesel engine by experimental heat release analysis in its chambers. Applied Thermal Engineering, 2006, 26, 1611-1620.	3.0	35
74	Second-law analyses applied to internal combustion engines operation. Progress in Energy and Combustion Science, 2006, 32, 2-47.	15.8	383
75	Comparative first- and second-law parametric study of transient diesel engine operation. Energy, 2006, 31, 1927-1942.	4.5	39
76	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. Energy Conversion and Management, 2006, 47, 3272-3287.	4.4	484
77	Sensitivity analysis of transient diesel engine simulation. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2006, 220, 89-101.	1.1	28
78	The influence of cylinder wall temperature profile on the second-law diesel engine transient response. Applied Thermal Engineering, 2005, 25, 1779-1795.	3.0	27
79	Experimental Heat Release Rate Analysis in Both Chambers of an Indirect Injection Turbocharged Diesel Engine at Various Load and Speed Conditions. , 2005, , .		11
80	Parametric Study of Transient Turbocharged Diesel Engine Operation from the Second-Law Perspective. , 2004, , .		18
81	The Effect of Various Dynamic, Thermodynamic and Design Parameters on the Performance of a Turbocharged Diesel Engine Operating under Transient Load Conditions. , 2004, , .		45
82	Validation and sensitivity analysis of a two zone Diesel engine model for combustion and emissions prediction. Energy Conversion and Management, 2004, 45, 1471-1495.	4.4	124
83	Cylinder wall temperature effects on the transient performance of a turbocharged Diesel engine. Energy Conversion and Management, 2004, 45, 2627-2638.	4.4	36
84	Investigation of the temperature oscillations in the cylinder walls of a diesel engine with special reference to the limited cooled case. International Journal of Energy Research, 2004, 28, 977-1002.	2.2	26
85	Availability analysis of a turbocharged diesel engine operating under transient load conditions. Energy, 2004, 29, 1085-1104.	4.5	73
86	Experimental and theoretical study of the short term response temperature transients in the cylinder walls of a diesel engine at various operating conditions. Applied Thermal Engineering, 2004, 24, 679-702.	3.0	75
87	A computer program for simulating the steady-state and transient behaviour of direct-acting engine governors. Advances in Engineering Software, 1999, 30, 281-289.	1.8	9
88	Simulation and analysis of a naturally aspirated IDI diesel engine under transient conditions comprising the effect of various dynamic and thermodynamic parameters. Energy Conversion and Management, 1998, 39, 465-484.	4.4	38
89	Experimental and simulation analysis of the transient operation of a turbocharged multi-cylinder IDI diesel engine. International Journal of Energy Research, 1998, 22, 317-331.	2.2	26
90	Development of cumulative and availability rate balances in a multi-cylinder turbocharged indirect injection Diesel engine. Energy Conversion and Management, 1997, 38, 347-369.	4.4	64

#	ARTICLE	IF	CITATIONS
91	Speed and load effects on the availability balances and irreversibilities production in a multi-cylinder turbocharged diesel engine. Applied Thermal Engineering, 1997, 17, 299-313.	3.0	44
92	Simulation and exergy analysis of transient diesel-engine operation. Energy, 1997, 22, 875-885.	4.5	76
93	A Simulation Analysis of the Effect of Governor Technical Characteristics and Type on the Transient Performance of a Naturally Aspirated IDI Diesel Engine. , 0, , .		17
94	An Integrated Transient Analysis Simulation Model Applied in Thermal Loading Calculations of an Air-Cooled Diesel Engine Under Variable Speed and Load Conditions. , 0, , .		16
95	The Effect of Friction Modelling on the Prediction of Turbocharged Diesel Engine Transient Operation. , 0, , .		9
96	Second-Law Analysis of Indirect Injection Turbocharged Diesel Engine Operation under Steady-State and Transient Conditions. , 0, , .		5
97	Study of the Transient Behavior of Turbocharged Diesel Engines Including Compressor Surging Using a Linearized Quasi-Steady Analysis. , 0, , .		14
98	Review of Thermodynamic Diesel Engine Simulations under Transient Operating Conditions. , 0, , .		63
99	Thermodynamic Analysis of SI Engine Operation on Variable Composition Biogas-Hydrogen Blends Using a Quasi-Dimensional, Multi-Zone Combustion Model. SAE International Journal of Engines, 0, 2, 880-910.	0.4	18