

# Dimitrios C Rakopoulos

## List of Publications by Year in descending order

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86  
papers

7,320  
citations

87401

40  
h-index

64407

83  
g-index

86  
all docs

86  
docs citations

86  
times ranked

3981  
citing authors

#	ARTICLE	IF	CITATIONS
1	Exergy evaluation of equivalence ratio, compression ratio and residual gas effects in variable compression ratio spark-ignition engine using quasi-dimensional combustion modeling. <i>Energy</i> , 2022, 244, 123080.	4.5	10
2	Achievement of NO Emissionâ€“Free Operation of a HSDI Diesel Engine Using Nitrogen Enrichment of Intake Air and Implications on Performance and Soot Emissions. <i>Journal of Energy Engineering - ASCE</i> , 2022, 148, .	1.0	0
3	Marine Exhaust Gas Treatment Systems for Compliance with the IMO 2020 Global Sulfur Cap and Tier III NOx Limits: A Review. <i>Energies</i> , 2022, 15, 3638.	1.6	18
4	Effects of Exhaust Gas Recirculation under Fueling Rate or Air/Fuel Ratioâ€“Controlled Strategies on Diesel Engine Performance and Emissions by Two-Zone Combustion Modeling. <i>Journal of Energy Engineering - ASCE</i> , 2021, 147, 04020079.	1.0	9
5	An Efficient Backward/Forward Sweep Algorithm for Power Flow Analysis through a Novel Tree-Like Structure for Unbalanced Distribution Networks. <i>Energies</i> , 2021, 14, 897.	1.6	14
6	Assessing the cyclic-variability of spark-ignition engine running on methane-hydrogen blends with high hydrogen contents of up to 50%. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 17955-17968.	3.8	23
7	Model Predictive Control for the Energy Management in a District of Buildings Equipped with Building Integrated Photovoltaic Systems and Batteries. <i>Energies</i> , 2021, 14, 3369.	1.6	9
8	State of the Art of Low and Medium Voltage Direct Current (DC) Microgrids. <i>Energies</i> , 2021, 14, 5595.	1.6	38
9	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
10	A Review on Management of End of Life Tires (ELTs) and Alternative Uses of Textile Fibers. <i>Energies</i> , 2021, 14, 571.	1.6	50
11	Day Ahead Optimal Dispatch Schedule in a Smart Grid Containing Distributed Energy Resources and Electric Vehicles. <i>Sensors</i> , 2021, 21, 7295.	2.1	16
12	Review of Process Modeling of Solid-Fuel Thermal Power Plants for Flexible and Off-Design Operation. <i>Energies</i> , 2020, 13, 6587.	1.6	13
13	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
14	Engine and Power Plant Combustion Technologies for Sustainability. <i>Journal of Energy Engineering - ASCE</i> , 2019, 145, 02019001.	1.0	3
15	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.	3.4	19
16	Determination of a Methodology to Derive Correlations Between Window Opening Mass Flow Rate and Wind Conditions Based on CFD Results. <i>Energies</i> , 2019, 12, 1600.	1.6	5
17	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.	4.5	96
18	A Methodology for Determination and Definition of Key Performance Indicators for Smart Grids Development in Island Energy Systems. <i>Energies</i> , 2019, 12, 242.	1.6	45

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19	The Smart City Business Model Canvasâ€”A Smart City Business Modeling Framework and Practical Tool. <i>Energies</i> , 2019, 12, 4798.	1.6	40
20	Thermal Simulation and Economic Study of Predried Lignite Production Retrofit of a Greek Power Plant for Enhanced Flexibility. <i>Journal of Energy Engineering - ASCE</i> , 2019, 145, 04019001.	1.0	12
21	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.	1.6	7
22	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.	4.4	24
23	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.	4.5	95
24	Evaluating Oxygenated Fuelâ€™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
25	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.	3.4	71
26	Dynamic Modeling of a Utility Once-Through Pulverized-Fuel Steam Generator. <i>Journal of Energy Engineering - ASCE</i> , 2017, 143, 04016070.	1.0	8
27	Numerical Investigation of a Coal-Fired Power Plant Main Furnace under Normal and Reduced-Oxygen Operating Conditions. <i>Journal of Energy Engineering - ASCE</i> , 2017, 143, .	1.0	5
28	Efficient CHP-Plant Configuration for District Heating Systems Utilizing Low-Rank Coals. <i>Journal of Energy Engineering - ASCE</i> , 2017, 143, .	1.0	7
29	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
30	Combustion Instability during Starting of Turbocharged Diesel Engine Including Biofuel Effects. <i>Journal of Energy Engineering - ASCE</i> , 2017, 143, .	1.0	12
31	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.	1.6	18
32	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, .	1.0	8
33	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.	3.4	77
34	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.	4.5	147
35	Pre-dried lignite technology implementation in partial load/low demand cases for flexibility enhancement. <i>Energy</i> , 2016, 96, 427-436.	4.5	20
36	Numerical Evaluation of the Effects of Compression Ratio and Diesel Fuel Injection Timing on the Performance and Emissions of a Fumigated Natural Gasâ€”Diesel Dual-Fuel Engine. <i>Journal of Energy Engineering - ASCE</i> , 2016, 142, .	1.0	18

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37	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.	8.2	79
38	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, .	1.0	18
39	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, .	1.0	7
40	Comparison of Combustion, Performance, and Emissions of HSDI Diesel Engine Operating on Blends of Diesel Fuel with Ethanol, n-Butanol, or Butanol Isomer Ether DEE. <i>Journal of Energy Engineering - ASCE</i> , 2015, 141, .	1.0	23
41	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, .	1.0	5
42	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.	3.4	200
43	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.	3.8	44
44	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, .	1.0	25
45	Special Issue on Innovative Technologies on Combustion of Biofuels in Engines: Issues and Challenges. <i>Journal of Energy Engineering - ASCE</i> , 2014, 140, .	1.0	9
46	Assessment of NO <sub>x</sub> Emissions during Transient Diesel Engine Operation with Biodiesel Blends. <i>Journal of Energy Engineering - ASCE</i> , 2014, 140, .	1.0	47
47	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.	4.5	268
48	Studying combustion and cyclic irregularity of diethyl ether as supplement fuel in diesel engine. <i>Fuel</i> , 2013, 109, 325-335.	3.4	117
49	Combustion and emissions of cottonseed oil and its bio-diesel in blends with either n-butanol or diethyl ether in HSDI diesel engine. <i>Fuel</i> , 2013, 105, 603-613.	3.4	183
50	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.	8.2	245
51	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.	1.1	24
52	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.	15.8	272
53	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
54	Heat release analysis of combustion in heavy-duty turbocharged diesel engine operating on blends of diesel fuel with cottonseed or sunflower oils and their bio-diesel. <i>Fuel</i> , 2012, 96, 524-534.	3.4	94

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55	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
56	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
57	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.	3.4	288
58	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
59	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.	3.4	343
60	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
61	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
62	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
63	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
64	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
65	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
66	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
67	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.	4.4	117
68	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
69	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
70	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.	0.1	22
71	Evaluation of various rich combustion strategies for HD-DI diesel engines. <i>International Journal of Vehicle Design</i> , 2007, 45, 171.	0.1	2
72	Study of the performance and emissions of a high-speed direct injection diesel engine operating on ethanol diesel fuel blends. <i>International Journal of Alternative Propulsion</i> , 2007, 1, 309.	0.9	24

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73	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. Energy Conversion and Management, 2007, 48, 1881-1901.	4.4	118
74	Theoretical study of DI diesel engine performance and pollutant emissions using comparable air-side and fuel-side oxygen addition. Energy Conversion and Management, 2007, 48, 2962-2970.	4.4	46
75	Experimental heat release analysis and emissions of a HSDI diesel engine fueled with ethanol-diesel fuel blends. Energy, 2007, 32, 1791-1808.	4.5	267
76	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
77	Multi-zone modeling of Diesel engine fuel spray development with vegetable oil, bio-diesel or Diesel fuels. Energy Conversion and Management, 2006, 47, 1550-1573.	4.4	118
78	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
79	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
80	Cylinder wall temperature effects on the transient performance of a turbocharged Diesel engine. Energy Conversion and Management, 2004, 45, 2627-2638.	4.4	36
81	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
82	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
83	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. Energy & Fuels, 2004, 18, 1302-1308.	2.5	20
84	Development and validation of a comprehensive two-zone model for combustion and emissions formation in a DI diesel engine. International Journal of Energy Research, 2003, 27, 1221-1249.	2.2	82
85	Combustion and Performance Characteristics of a DI Diesel Engine Operating from Low to High Natural Gas Supplement Ratios at Various Operating Conditions. , 0, , .		51
86	A Review on the Driving Forces, Challenges, and Applications of AC/DC Hybrid Smart Microgrids. , 0, , .		1