

Andre Boehman

List of Publications by Year in descending order

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Version: 2024-02-01

72
papers

4,170
citations

159585

30
h-index

133252

59
g-index

72
all docs

72
docs citations

72
times ranked

2702
citing authors

#	ARTICLE	IF	CITATIONS
1	Cycle-to-cycle variability in spark-assisted compression ignition engines near optimal mean combustion phasing. <i>International Journal of Engine Research</i> , 2023, 24, 420-436.	2.3	2
2	Extreme Miller cycle with high intake boost for improved efficiency and emissions in heavy-duty diesel engines. <i>International Journal of Engine Research</i> , 2023, 24, 552-566.	2.3	4
3	Uncertainty-based weight determination for surrogate optimization. <i>Combustion and Flame</i> , 2022, 237, 111850.	5.2	2
4	Modeling and Predicting Heavy-Duty Vehicle Engine-Out and Tailpipe Nitrogen Oxide (NOx) Emissions Using Deep Learning. <i>Frontiers in Mechanical Engineering</i> , 2022, 8, .	1.8	8
5	Influence of fuel injection strategies on efficiency and particulate emissions of gasoline and ethanol blends in a turbocharged multi-cylinder direct injection engine. <i>International Journal of Engine Research</i> , 2021, 22, 152-164.	2.3	26
6	Influence of intermediate temperature heat release on autoignition reactivity of single-stage ignition fuels with varying octane sensitivity. <i>Proceedings of the Combustion Institute</i> , 2021, 38, 5529-5538.	3.9	5
7	Ignition delay measurements of four component model gasolines exploring the impacts of biofuels and aromatics. <i>Proceedings of the Combustion Institute</i> , 2021, 38, 5549-5555.	3.9	4
8	Autoignition characteristics of bio-based fuels, farnesane and TPGME, in comparison with fuels of similar cetane rating. <i>Proceedings of the Combustion Institute</i> , 2021, 38, 5585-5595.	3.9	10
9	Aerosol generation during chest compression and defibrillation in a swine cardiac arrest model. <i>Resuscitation</i> , 2021, 159, 28-34.	3.0	21
10	Experimental Measurement of the Isothermal Bulk Modulus of Compressibility and Speed of Sound of Conventional and Alternative Jet Fuels. <i>Energy & Fuels</i> , 2021, 35, 13813-13829.	5.1	1
11	Life-Cycle Greenhouse Gas Emissions Assessment of Novel Dimethyl Ether-Glycerol Blends for Compression-Ignition Engine Application. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 13196-13205.	6.7	1
12	Disease transmission through expiratory aerosols on an urban bus. <i>Physics of Fluids</i> , 2021, 33, 015116.	4.0	119
13	Impacts of advanced diesel combustion operation and fuel formulation on soot nanostructure and reactivity. <i>Fuel</i> , 2020, 276, 118080.	6.4	16
14	Multiple injection for improving knock, gaseous and particulate matter emissions in direct injection SI engines. <i>Applied Energy</i> , 2020, 262, 114578.	10.1	15
15	Nanostructure and reactivity of soot produced from a turbodiesel engine using post injection. <i>Proceedings of the Combustion Institute</i> , 2019, 37, 1169-1176.	3.9	31
16	Experimental and Numerical Study on Autoignition Characteristics of the Gasoline/Diesel/Ethanol and Gasoline/Diesel/PODE/Ethanol Fuels. <i>Energy & Fuels</i> , 2019, 33, 11841-11849.	5.1	14
17	Two-stage ignition behavior and octane sensitivity of toluene reference fuels as gasoline surrogate. <i>Combustion and Flame</i> , 2019, 210, 100-113.	5.2	18
18	The oxidation of C2-C4 diols and diol/TPGME blends in a motored engine. <i>Fuel</i> , 2019, 257, 116093.	6.4	14

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19	The effect of molecular structures of alkylbenzenes on ignition characteristics of binary n-heptane blends. Proceedings of the Combustion Institute, 2019, 37, 4681-4689.	3.9	14
20	Experimental and Numerical Study on Autoignition Characteristics of the Polyoxymethylene Dimethyl Ether/Diesel Blends. Energy & Fuels, 2019, 33, 2538-2546.	5.1	23
21	Experimental characterization of jet fuels under engine relevant conditions " Part 1: Effect of chemical composition on autoignition of conventional and alternative jet fuels. Fuel, 2019, 239, 1388-1404.	6.4	40
22	Experimental characterization of jet fuels under engine relevant conditions " Part 2: Insights on optimization approach for surrogate formulation. Fuel, 2019, 239, 1405-1416.	6.4	7
23	The oxidation characteristics of furan derivatives and binary TPGME blends under engine relevant conditions. Proceedings of the Combustion Institute, 2019, 37, 4635-4643.	3.9	18
24	Experimental Study of Autoignition Characteristics of the Ethanol Effect on Biodiesel/n-Heptane Blend in a Motored Engine and a Constant-Volume Combustion Chamber. Energy & Fuels, 2018, 32, 1884-1892.	5.1	11
25	Hydrocarbons for the next generation of jet fuel surrogates. Fuel, 2018, 228, 438-444.	6.4	45
26	Autoignition of Alcohol/C7-Esters/n-Heptane Blends in a Motored Engine under HCCI Conditions. Energy & Fuels, 2017, 31, 2985-2995.	5.1	16
27	A six-component surrogate for emulating the physical and chemical characteristics of conventional and alternative jet fuels and their blends. Combustion and Flame, 2017, 179, 86-94.	5.2	55
28	Impact of Fuel Composition and Intake Pressure on Lean Autoignition of Surrogate Gasoline Fuels in a CFR Engine. Energy & Fuels, 2017, 31, 11315-11327.	5.1	21
29	Autoignition studies of C5 isomers in a motored engine. Proceedings of the Combustion Institute, 2017, 36, 3597-3604.	3.9	21
30	Autoignition of pentane isomers in a spark-ignition engine. Proceedings of the Combustion Institute, 2017, 36, 3499-3506.	3.9	11
31	Impacts of advanced diesel combustion operation on soot nanostructure and reactivity. International Journal of Engine Research, 2017, 18, 532-542.	2.3	20
32	Particulate matter indices using fuel smoke point for vehicle emissions with gasoline, ethanol blends, and butanol blends. Combustion and Flame, 2016, 167, 308-319.	5.2	84
33	Experimental study of autoignition characteristics of Jet-A surrogates and their validation in a motored engine and a constant-volume combustion chamber. Fuel, 2016, 184, 565-580.	6.4	48
34	Effects of fuel physical properties on direct injection spray and ignition behavior. Fuel, 2016, 180, 481-496.	6.4	72
35	Impact of Fuel and Injection Timing on Partially Premixed Charge Compression Ignition Combustion. Energy & Fuels, 2016, 30, 4331-4345.	5.1	30
36	Impact of rail pressure and biodiesel fueling on the particulate morphology and soot nanostructures from a common-rail turbocharged direct injection diesel engine. International Journal of Engine Research, 2016, 17, 193-208.	2.3	35

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37	Experimental Studies of High Efficiency Combustion With Fumigation of Dimethyl Ether and Propane Into Diesel Engine Intake Air. <i>Journal of Engineering for Gas Turbines and Power</i> , 2015, 137, .	1.1	6
38	Impact of branched structures on cycloalkane ignition in a motored engine: Detailed product and conformational analyses. <i>Combustion and Flame</i> , 2015, 162, 877-892.	5.2	28
39	Ignition Behavior of Biodiesel and Diesel under Reduced Oxygen Atmospheres. <i>Energy & Fuels</i> , 2015, 29, 6793-6803.	5.1	32
40	Combined Impact of Branching and Unsaturation on the Autoignition of Binary Blends in a Motored Engine. <i>Energy & Fuels</i> , 2014, 28, 7203-7215.	5.1	14
41	Effects of the Chemical Structure and Composition of Surrogate Gasoline Fuels on Homogeneous Charge Compression Ignition Combustion in a Single-Cylinder Engine. <i>Energy & Fuels</i> , 2014, 28, 3377-3390.	5.1	18
42	A surrogate for emulating the physical and chemical properties of conventional jet fuel. <i>Combustion and Flame</i> , 2014, 161, 1489-1498.	5.2	189
43	Group additivity in soot formation for the example of C-5 oxygenated hydrocarbon fuels. <i>Combustion and Flame</i> , 2013, 160, 1484-1498.	5.2	140
44	Impact of engine operating modes and combustion phasing on the reactivity of diesel soot. <i>Combustion and Flame</i> , 2013, 160, 682-691.	5.2	111
45	Effects of Fuel Composition on Critical Equivalence Ratio for Autoignition. <i>Energy & Fuels</i> , 2013, 27, 1601-1612.	5.1	11
46	Evaluation of Raman Parameters Using Visible Raman Microscopy for Soot Oxidative Reactivity. <i>Energy & Fuels</i> , 2013, 27, 1613-1624.	5.1	135
47	Effects of Fuel Ignition Quality on Critical Equivalence Ratio for Autoignition. <i>Energy & Fuels</i> , 2013, 27, 1586-1600.	5.1	17
48	Bulk Modulus of Compressibility of Diesel/Biodiesel/HVO Blends. <i>Energy & Fuels</i> , 2012, 26, 1336-1343.	5.1	40
49	Impact of fuel formulation on the nanostructure and reactivity of diesel soot. <i>Combustion and Flame</i> , 2012, 159, 3597-3606.	5.2	249
50	Autoignition of binary fuel blends of n-heptane and C7 esters in a motored engine. <i>Combustion and Flame</i> , 2012, 159, 1619-1630.	5.2	28
51	The deconvolution of the thermal, dilution, and chemical effects of exhaust gas recirculation (EGR) on the reactivity of engine and flame soot. <i>Combustion and Flame</i> , 2011, 158, 1696-1704.	5.2	82
52	Oxidation chemistry of cyclic hydrocarbons in a motored engine: Methylcyclopentane, tetralin, and decalin. <i>Combustion and Flame</i> , 2010, 157, 495-505.	5.2	62
53	Experimental study of the autoignition of C ₈ H ₁₆ O ₂ ethyl and methyl esters in a motored engine. <i>Combustion and Flame</i> , 2010, 157, 546-555.	5.2	33
54	Effects of molecular structure on oxidation reactivity of cyclic hydrocarbons: Experimental observations and conformational analysis. <i>Combustion and Flame</i> , 2010, 157, 2369-2379.	5.2	51

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55	Oxidation of 1-butanol and a mixture of n-heptane/1-butanol in a motored engine. Combustion and Flame, 2010, 157, 1816-1824.	5.2	88
56	Uniqueness in the low temperature oxidation of cycloalkanes. Combustion and Flame, 2010, 157, 2357-2368.	5.2	54
57	Experimental study of cyclohexane and methylcyclohexane oxidation at low to intermediate temperature in a motored engine. Proceedings of the Combustion Institute, 2009, 32, 419-426.	3.9	56
58	Premixed ignition behavior of C9 fatty acid esters: A motored engine study. Combustion and Flame, 2009, 156, 1202-1213.	5.2	93
59	Impact of exhaust gas recirculation (EGR) on the oxidative reactivity of diesel engine soot. Combustion and Flame, 2008, 155, 675-695.	5.2	241
60	Combustion of Syngas in Internal Combustion Engines. Combustion Science and Technology, 2008, 180, 1193-1206.	2.3	112
61	Impact of Biodiesel on NOx Emissions in a Common Rail Direct Injection Diesel Engine. Energy & Fuels, 2007, 21, 2003-2012.	5.1	151
62	IMPACT OF ALTERNATIVE FUELS ON SOOT PROPERTIES AND DPF REGENERATION. Combustion Science and Technology, 2007, 179, 1991-2037.	2.3	146
63	Premixed ignition behavior of alternative diesel fuel-relevant compounds in a motored engine experiment. Combustion and Flame, 2007, 149, 112-128.	5.2	134
64	NOx Emissions of Alternative Diesel Fuels: A Comparative Analysis of Biodiesel and FT Diesel. Energy & Fuels, 2005, 19, 1484-1492.	5.1	218
65	The Impact of the Bulk Modulus of Diesel Fuels on Fuel Injection Timing. Energy & Fuels, 2004, 18, 1877-1882.	5.1	303
66	Characterization of the Viscosity of Blends of Dimethyl Ether with Various Fuels and Additives. Energy & Fuels, 2003, 17, 1126-1132.	5.1	38
67	Behavior of a Diesel Injection System with Biodiesel Fuel. , 0, , .		86
68	An Experimental Investigation of the Origin of Increased NO _x Emissions When Fueling a Heavy-Duty Compression-Ignition Engine with Soy Biodiesel. SAE International Journal of Fuels and Lubricants, 0, 2, 789-816.	0.2	279
69	Experimental Study of Post Injection Scheduling for Soot Reduction in a Light-Duty Turbodiesel Engine. , 0, , .		15
70	The Relative Importance of Fuel Oxidation Chemistry and Physical Properties to Spray Ignition. SAE International Journal of Fuels and Lubricants, 0, 10, 10-21.	0.2	12
71	Experimental Validation of Jet Fuel Surrogates in an Optical Engine. , 0, , .		2
72	Impact of Miller Cycle Strategies on Combustion Characteristics, Emissions and Efficiency in Heavy-Duty Diesel Engines. , 0, , .		14