Randy L Vander Wal

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/9815235/publications.pdf

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32 papers 1,563 citations

15 h-index 30 g-index

32 all docs 32 docs citations

times ranked

32

1390 citing authors

#	Article	IF	CITATIONS
1	Soot oxidation. Combustion and Flame, 2003, 134, 1-9.	5.2	435
2	Soot nanostructure: dependence upon synthesis conditions. Combustion and Flame, 2004, 136, 129-140.	5.2	344
3	Fingerprinting soot (towards source identification): Physical structure and chemical composition. Journal of Aerosol Science, 2010, 41, 108-117.	3.8	120
4	XPS Analysis of Combustion Aerosols for Chemical Composition, Surface Chemistry, and Carbon Chemical State. Analytical Chemistry, 2011, 83, 1924-1930.	6.5	113
5	Carbon Nanostructure Examined by Lattice Fringe Analysis of High-Resolution Transmission Electron Microscopy Images. Applied Spectroscopy, 2004, 58, 230-237.	2.2	99
6	A Laboratory Comparison of Emission Factors, Number Size Distributions, and Morphology of Ultrafine Particles from 11 Different Household Cookstove-Fuel Systems. Environmental Science & Emp; Technology, 2017, 51, 6522-6532.	10.0	59
7	Reconciliation of carbon oxidation rates and activation energies based on changing nanostructure. Carbon, 2016, 98, 545-556.	10.3	58
8	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
9	Effect of Soot Structure Evolution from Commercial Jet Engine Burning Petroleum Based JP-8 and Synthetic HRJ and FT Fuels. Energy & Synthetic HRJ and FT Fuels. Energy & Synthetic HRJ and FT Fuels. Energy & Synthetic HRJ and FT Fuels.	5.1	32
10	Impact of Biofuel Blends on Black Carbon Emissions from a Gas Turbine Engine. Energy & Samp; Fuels, 2020, 34, 4958-4966.	5.1	30
11	Pulsed laser annealing of carbon black. Carbon, 2017, 124, 380-390.	10.3	26
12	Characterization of emissions and residues from simulations of the Deepwater Horizon surface oil burns. Marine Pollution Bulletin, 2017, 117, 392-405.	5.0	25
13	NO2 Oxidation Reactivity and Burning Mode of Diesel Particulates. Topics in Catalysis, 2016, 59, 686-694.	2.8	23
14	Predictive Model Development for Aviation Black Carbon Mass Emissions from Alternative and Conventional Fuels at Ground and Cruise. Environmental Science & Environmental Scie	10.0	22
15	Nanostructure changes in diesel soot during NO ₂ –O ₂ oxidation under diesel particulate filter-like conditions toward filter regeneration. International Journal of Engine Research, 2019, 20, 953-966.	2.3	19
16	Characterization of the particulate emissions from the BP Deepwater Horizon surface oil burns. Marine Pollution Bulletin, 2016, 107, 216-223.	5.0	16
17	Nanocarbon nanofluids: morphology and nanostructure comparisons. Nanotechnology, 2009, 20, 105702.	2.6	13
18	The role of fuel chemistry in dictating nanostructure evolution of soot toward source identification. Aerosol Science and Technology, 2020, 54, 66-78.	3.1	11

#	Article	IF	CITATIONS
19	Identification of Toxicity Parameters Associated with Combustion Produced Soot Surface Chemistry and Particle Structure by in Vitro Assays. Biomedicines, 2020, 8, 345.	3.2	11
20	An Investigation of Micro-Hollow Cathode Glow Discharge Generated Optical Emission Spectroscopy for Hydrocarbon Detection and Differentiation. Applied Spectroscopy, 2014, 68, 649-656.	2.2	9
21	Informing TiRe-LII assumptions for soot nanostructure and optical properties for estimation of soot primary particle diameter. Applied Physics B: Lasers and Optics, 2018, 124, 1.	2.2	9
22	Microwave-Driven Plasma-Mediated Methane Cracking: Product Carbon Characterization. Journal of Carbon Research, 2018, 4, 61.	2.7	8
23	Application and validation of a line-source dispersion model to estimate small scale traffic-related particulate matter concentrations across the conterminous US. Air Quality, Atmosphere and Health, 2018, 11, 741-754.	3.3	7
24	Effect of Fuel Composition on Carbon Black Formation Pathways. Applied Sciences (Switzerland), 2022, 12, 2569.	2.5	7
25	Experimental Studies of High Efficiency Combustion With Fumigation of Dimethyl Ether and Propane Into Diesel Engine Intake Air. Journal of Engineering for Gas Turbines and Power, 2015, 137, .	1.1	6
26	Soot differentiation by laser derivatization. Aerosol Science and Technology, 2019, 53, 207-229.	3.1	6
27	Characterization and Hazard Identification of Respirable Cement and Concrete Dust from Construction Activities. International Journal of Environmental Research and Public Health, 2021, 18, 10126.	2.6	6
28	Spectroscopic characterization and comparison between biologics, organics and mineral compounds using pulsed micro-hollow glow discharge. Journal of Analytical Atomic Spectrometry, 2014, 29, 1791-1798.	3.0	5
29	Microwave Plasma Formation of Nanographene and Graphitic Carbon Black. Journal of Carbon Research, 2020, 6, 70.	2.7	4
30	Role of Estrogen on Alveolar Macrophage Polarization in Response to Particulate Matter Exposure. FASEB Journal, 2019, 33, 735.2.	0.5	3
31	Investigation of subsequent deposit growth on preâ€existing lubricant deposits: a substitutional growth model. Lubrication Science, 2016, 28, 267-280.	2.1	1
32	Carbon Composites—Graphene-Oxide-Catalyzed Sugar Graphitization. Journal of Carbon Research, 2022, 8, 15.	2.7	1