

Olli Sippula

List of Publications by Year in descending order

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97
papers

3,753
citations

109137

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docs citations

99
times ranked

3531
citing authors

#	ARTICLE	IF	CITATIONS
1	Potentials and challenges in lignocellulosic biofuel production technology. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 111, 44-56.	8.2	210
2	Fine particle and gaseous emissions from normal and smouldering wood combustion in a conventional masonry heater. <i>Atmospheric Environment</i> , 2008, 42, 7862-7873.	1.9	183
3	Physicochemical characterization of fine particles from small-scale wood combustion. <i>Atmospheric Environment</i> , 2011, 45, 7635-7643.	1.9	168
4	Effect of Wood Fuel on the Emissions from a Top-Feed Pellet Stove. <i>Energy & Fuels</i> , 2007, 21, 1151-1160.	2.5	166
5	Particle Emissions from a Marine Engine: Chemical Composition and Aromatic Emission Profiles under Various Operating Conditions. <i>Environmental Science & Technology</i> , 2014, 48, 11721-11729.	4.6	131
6	Particulate Matter from Both Heavy Fuel Oil and Diesel Fuel Shipping Emissions Show Strong Biological Effects on Human Lung Cells at Realistic and Comparable In Vitro Exposure Conditions. <i>PLoS ONE</i> , 2015, 10, e0126536.	1.1	111
7	Comparison of particle emissions from small heavy fuel oil and wood-fired boilers. <i>Atmospheric Environment</i> , 2009, 43, 4855-4864.	1.9	104
8	Fine Particle and Gas Emissions from the Combustion of Agricultural Fuels Fired in a 20 kW Burner. <i>Energy & Fuels</i> , 2008, 22, 2033-2042.	2.5	102
9	Effect of wood combustion conditions on the morphology of freshly emitted fine particles. <i>Atmospheric Environment</i> , 2014, 87, 65-76.	1.9	102
10	Effects of Air Staging and Load on Fine-Particle and Gaseous Emissions from a Small-Scale Pellet Boiler. <i>Energy & Fuels</i> , 2011, 25, 4952-4960.	2.5	83
11	The effects of operating conditions on emissions from masonry heaters and sauna stoves. <i>Biomass and Bioenergy</i> , 2009, 33, 513-520.	2.9	79
12	Particle Emissions from Small Wood-fired District Heating Units. <i>Energy & Fuels</i> , 2009, 23, 2974-2982.	2.5	77
13	Characteristics and temporal evolution of particulate emissions from a ship diesel engine. <i>Applied Energy</i> , 2015, 155, 204-217.	5.1	76
14	Transformation of logwood combustion emissions in a smog chamber: formation of secondary organic aerosol and changes in the primary organic aerosol upon daytime and nighttime aging. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 13251-13269.	1.9	76
15	Fine particle emissions in three different combustion conditions of a wood chip-fired appliance – Particulate physico-chemical properties and induced cell death. <i>Atmospheric Environment</i> , 2014, 86, 129-139.	1.9	72
16	Effects of chlorine and sulphur on particle formation in wood combustion performed in a laboratory scale reactor. <i>Fuel</i> , 2008, 87, 2425-2436.	3.4	70
17	Fine Particle and Gaseous Emissions from a Small-Scale Boiler Fueled by Pellets of Various Raw Materials. <i>Energy & Fuels</i> , 2013, 27, 7044-7053.	2.5	70
18	Aerosol emissions of a ship diesel engine operated with diesel fuel or heavy fuel oil. <i>Environmental Science and Pollution Research</i> , 2017, 24, 10976-10991.	2.7	65

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19	Emissions and ash behavior in a 500 kW pellet boiler operated with various blends of woody biomass and peat. <i>Fuel</i> , 2017, 202, 144-153.	3.4	59
20	Comparison of emissions and toxicological properties of fine particles from wood and oil boilers in small (20â€“25ÅkW) and medium (5â€“10AMW) scale. <i>Atmospheric Environment</i> , 2013, 77, 193-201.	1.9	57
21	Volatile Organic Compounds from Logwood Combustion: Emissions and Transformation under Dark and Photochemical Aging Conditions in a Smog Chamber. <i>Environmental Science & Technology</i> , 2018, 52, 4979-4988.	4.6	57
22	Emissions and atmospheric processes influence the chemical composition and toxicological properties of urban air particulate matter in Nanjing, China. <i>Science of the Total Environment</i> , 2018, 639, 1290-1310.	3.9	55
23	Effects of a catalytic converter on PCDD/F, chlorophenol and PAH emissions in residential wood combustion. <i>Chemosphere</i> , 2012, 88, 278-285.	4.2	45
24	Ash behaviour and emission formation in a small-scale reciprocating-grate combustion reactor operated with wood chips, reed canary grass and barley straw. <i>Fuel</i> , 2015, 143, 80-88.	3.4	44
25	Black carbon and fine particle emissions in Finnish residential wood combustion: Emission projections, reduction measures and the impact of combustion practices. <i>Atmospheric Environment</i> , 2016, 140, 495-505.	1.9	44
26	Effect of Atmospheric Aging on Soot Particle Toxicity in Lung Cell Models at the Airâ€“Liquid Interface: Differential Toxicological Impacts of Biogenic and Anthropogenic Secondary Organic Aerosols (SOAs). <i>Environmental Health Perspectives</i> , 2022, 130, 27003.	2.8	44
27	Day and night variation in chemical composition and toxicological responses of size segregated urban air PM samples in a high air pollution situation. <i>Atmospheric Environment</i> , 2015, 120, 427-437.	1.9	43
28	Chemical composition and speciation of particulate organic matter from modern residential small-scale wood combustion appliances. <i>Science of the Total Environment</i> , 2018, 612, 636-648.	3.9	42
29	Reduction of gaseous and particulate emissions from small-scale wood combustion with a catalytic combustor. <i>Atmospheric Environment</i> , 2012, 50, 16-23.	1.9	41
30	Different toxic mechanisms are activated by emission PM depending on combustion efficiency. <i>Atmospheric Environment</i> , 2014, 89, 623-632.	1.9	40
31	Effect of air staging on fine particle, dust and gaseous emissions from masonry heaters. <i>Biomass and Bioenergy</i> , 2014, 67, 167-178.	2.9	40
32	Effect of fuel zinc content on toxicological responses of particulate matter from pellet combustion in vitro. <i>Science of the Total Environment</i> , 2015, 511, 331-340.	3.9	39
33	Effective Density and Morphology of Particles Emitted from Small-Scale Combustion of Various Wood Fuels. <i>Environmental Science & Technology</i> , 2014, 48, 13298-13306.	4.6	38
34	Influence of wood species on toxicity of log-wood stove combustion aerosols: a parallel animal and air-liquid interface cell exposure study on spruce and pine smoke. <i>Particle and Fibre Toxicology</i> , 2020, 17, 27.	2.8	38
35	Analysis of Gas-Phase Carbonyl Compounds in Emissions from Modern Wood Combustion Appliances: Influence of Wood Type and Combustion Appliance. <i>Energy & Fuels</i> , 2015, 29, 3897-3907.	2.5	37
36	Variation of Absorption Å‹ngstrÅ‹m Exponent in Aerosols From Different Emission Sources. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD034094.	1.2	37

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37	Characterization and testing of a new environmental chamber. <i>Atmospheric Measurement Techniques</i> , 2015, 8, 2267-2278.	1.2	36
38	Seasonal variation in the toxicological properties of size-segregated indoor and outdoor air particulate matter. <i>Toxicology in Vitro</i> , 2013, 27, 1550-1561.	1.1	35
39	On-line analysis of organic emissions from residential wood combustion with single-photon ionisation time-of-flight mass spectrometry (SPI-TOFMS). <i>Fuel</i> , 2016, 177, 334-342.	3.4	33
40	Role of microbial and chemical composition in toxicological properties of indoor and outdoor air particulate matter. <i>Particle and Fibre Toxicology</i> , 2014, 11, 60.	2.8	32
41	Impact of photochemical ageing on Polycyclic Aromatic Hydrocarbons (PAH) and oxygenated PAH (Oxy-PAH/OH-PAH) in logwood stove emissions. <i>Science of the Total Environment</i> , 2019, 686, 382-392.	3.9	32
42	Hyphenation of a EC / OC thermal-optical carbon analyzer to photo-ionization time-of-flight mass spectrometry: an off-line aerosol mass spectrometric approach for characterization of primary and secondary particulate matter. <i>Atmospheric Measurement Techniques</i> , 2015, 8, 3337-3353.	1.2	31
43	A novel particle sampling system for physico-chemical and toxicological characterization of emissions. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 401, 3183-3195.	1.9	29
44	Metabolic Profiling as Well as Stable Isotope Assisted Metabolic and Proteomic Analysis of RAW 264.7 Macrophages Exposed to Ship Engine Aerosol Emissions: Different Effects of Heavy Fuel Oil and Refined Diesel Fuel. <i>PLoS ONE</i> , 2016, 11, e0157964.	1.1	29
45	Particulate emissions from the combustion of birch, beech, and spruce logs cause different cytotoxic responses in A549 cells. <i>Environmental Toxicology</i> , 2017, 32, 1487-1499.	2.1	29
46	Real-time analysis of organic compounds in ship engine aerosol emissions using resonance-enhanced multiphoton ionisation and proton transfer mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 5939-5951.	1.9	28
47	Emissions from a fast-pyrolysis bio-oil fired boiler: Comparison of health-related characteristics of emissions from bio-oil, fossil oil and wood. <i>Environmental Pollution</i> , 2019, 248, 888-897.	3.7	28
48	Time-resolved chemical composition of small-scale batch combustion emissions from various wood species. <i>Fuel</i> , 2018, 233, 224-236.	3.4	26
49	PM2.5 concentration and composition in the urban air of Nanjing, China: Effects of emission control measures applied during the 2014 Youth Olympic Games. <i>Science of the Total Environment</i> , 2019, 652, 1-18.	3.9	26
50	Gas phase carbonyl compounds in ship emissions: Differences between diesel fuel and heavy fuel oil operation. <i>Atmospheric Environment</i> , 2014, 94, 467-478.	1.9	24
51	Gas phase carbonyl compounds in ship emissions: Differences between diesel fuel and heavy fuel oil operation. <i>Atmospheric Environment</i> , 2015, 112, 370-380.	1.9	24
52	Thermal treatment of municipal solid waste incineration fly ash: Impact of gas atmosphere on the volatility of major, minor, and trace elements. <i>Waste Management</i> , 2020, 114, 1-16.	3.7	24
53	Behavior of Alkali Metal Aerosol in a High-Temperature Porous Tube Sampling Probe. <i>Aerosol Science and Technology</i> , 2012, 46, 1151-1162.	1.5	21
54	Reference Particles for Toxicological Studies of Wood Combustion: Formation, Characteristics, and Toxicity Compared to Those of Real Wood Combustion Particulate Mass. <i>Chemical Research in Toxicology</i> , 2014, 27, 1516-1527.	1.7	21

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55	Untargeted Identification of Wood Type-Specific Markers in Particulate Matter from Wood Combustion. <i>Environmental Science & Technology</i> , 2016, 50, 10073-10081.	4.6	20
56	A novel high-volume Photochemical Emission Aging flow tube Reactor (PEAR). <i>Aerosol Science and Technology</i> , 2019, 53, 276-294.	1.5	20
57	Laboratory and Field Testing of Sampling Methods for Inhalable and Respirable Dust. <i>Journal of Occupational and Environmental Hygiene</i> , 2007, 5, 28-35.	0.4	19
58	A multi-criteria analysis of climate, health and acidification impacts due to greenhouse gases and air pollution – The case of household-level heating technologies. <i>Energy Policy</i> , 2014, 74, 499-509.	4.2	19
59	Evaluation of a Heat Exchanger Designed for Efficient Fine Particle Precipitation in Small-Scale Wood Combustion. <i>Energy & Fuels</i> , 2014, 28, 6058-6065.	2.5	18
60	Zinc nanoparticle formation and physicochemical properties in wood combustion – Experiments with zinc-doped pellets in a small-scale boiler. <i>Fuel</i> , 2015, 143, 404-413.	3.4	18
61	Time-resolved analysis of primary volatile emissions and secondary aerosol formation potential from a small-scale pellet boiler. <i>Atmospheric Environment</i> , 2017, 158, 236-245.	1.9	18
62	Exposure to naphthalene and β -pinene-derived secondary organic aerosol induced divergent changes in transcript levels of BEAS-2B cells. <i>Environment International</i> , 2022, 166, 107366.	4.8	18
63	Nucleation in a perforated tube diluter. <i>Journal of Aerosol Science</i> , 2007, 38, 172-191.	1.8	17
64	Design and validation of an air-liquid interface (ALI) exposure device based on thermophoresis. <i>Aerosol Science and Technology</i> , 2019, 53, 133-145.	1.5	17
65	Volatilisation of major, minor, and trace elements during thermal processing of fly ashes from waste- and wood-fired power plants in oxidising and reducing gas atmospheres. <i>Waste Management</i> , 2020, 102, 698-709.	3.7	17
66	Considerations in analysing elemental carbon from marine engine exhaust using residual, distillate and biofuels. <i>Journal of Aerosol Science</i> , 2018, 126, 191-204.	1.8	16
67	Photochemical transformation of residential wood combustion emissions: dependence of organic aerosol composition on OH exposure. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 6357-6378.	1.9	16
68	Characterization of Chemical and Microbial Species from Size-Segregated Indoor and Outdoor Particulate Samples. <i>Aerosol and Air Quality Research</i> , 2013, 13, 1212-1230.	0.9	16
69	Should industrial bagasse-fired boilers be phased out in China?. <i>Journal of Cleaner Production</i> , 2020, 265, 121716.	4.6	15
70	Thermal separation of zinc and other valuable elements from municipal solid waste incineration fly ash. <i>Journal of Cleaner Production</i> , 2020, 253, 120014.	4.6	15
71	Phytoextraction and recovery of rare earth elements using willow (<i>Salix</i> spp.). <i>Science of the Total Environment</i> , 2022, 809, 152209.	3.9	15
72	Real-Time Chemical Composition Analysis of Particulate Emissions from Woodchip Combustion. <i>Energy & Fuels</i> , 2015, 29, 1143-1150.	2.5	14

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73	Operation and Emissions of a Hybrid Stove Fueled by Pellets and Log Wood. <i>Energy & Fuels</i> , 2017, 31, 1961-1968.	2.5	14
74	Air quality intervention during the Nanjing youth olympic games altered PM sources, chemical composition, and toxicological responses. <i>Environmental Research</i> , 2020, 185, 109360.	3.7	14
75	Controlled oxidation of iron nanoparticles in chemical vapour synthesis. <i>Journal of Nanoparticle Research</i> , 2014, 16, 1.	0.8	13
76	Needle trap sampling thermal-desorption resonance enhanced multiphoton ionization time-of-flight mass spectrometry for analysis of marine diesel engine exhaust. <i>Analytical Methods</i> , 2015, 7, 3608-3617.	1.3	13
77	In vitro toxicological effects of zinc containing nanoparticles with different physico-chemical properties. <i>Toxicology in Vitro</i> , 2017, 42, 105-113.	1.1	12
78	Emission characteristics of polychlorinated dibenzo-p-dioxins and dibenzofurans from industrial combustion of biomass fuels. <i>Environmental Pollution</i> , 2022, 292, 118265.	3.7	11
79	Fine Particle Emissions from Sauna Stoves: Effects of Combustion Appliance and Fuel, and Implications for the Finnish Emission Inventory. <i>Atmosphere</i> , 2019, 10, 775.	1.0	10
80	Effect of Pellet Boiler Exhaust on Secondary Organic Aerosol Formation from α -Pinene. <i>Environmental Science & Technology</i> , 2017, 51, 1423-1432.	4.6	9
81	A novel electrical charging condensing heat exchanger for efficient particle emission reduction in small wood boilers. <i>Renewable Energy</i> , 2020, 145, 521-529.	4.3	9
82	Detoxification of wood-combustion ashes containing Cr and Cd by thermal treatment. <i>Journal of Hazardous Materials</i> , 2020, 400, 123315.	6.5	9
83	Genotoxic and inflammatory effects of spruce and brown coal briquettes combustion aerosols on lung cells at the air-liquid interface. <i>Science of the Total Environment</i> , 2022, 806, 150489.	3.9	9
84	Analysis of high-temperature oxidation of wood combustion particles using tandem-DMA technique. <i>Combustion and Flame</i> , 2018, 191, 76-85.	2.8	8
85	The effect of the shoeless course on particle concentrations and dust composition in schools. <i>Science of the Total Environment</i> , 2020, 710, 136272.	3.9	8
86	Emissions of Gases and Volatile Organic Compounds from Residential Heating: A Comparison of Brown Coal Briquettes and Logwood Combustion. <i>Energy & Fuels</i> , 2021, 35, 14010-14022.	2.5	8
87	The measurement of Ag/In/Cd release under air-ingress conditions in the QUENCH-18 bundle test. <i>Journal of Nuclear Materials</i> , 2019, 517, 315-327.	1.3	7
88	Utilization of Barley Straw as Feedstock for the Production of Different Energy Vectors. <i>Processes</i> , 2021, 9, 726.	1.3	7
89	Cyclic Ion Mobility Spectrometry Coupled to High-Resolution Time-of-Flight Mass Spectrometry Equipped with Atmospheric Solid Analysis Probe for the Molecular Characterization of Combustion Particulate Matter. <i>Journal of the American Society for Mass Spectrometry</i> , 2021, 32, 206-217.	1.2	6
90	Novel fine particle reduction method for wood stoves based on high-temperature electric collection of naturally charged soot particles. <i>Journal of Cleaner Production</i> , 2021, 312, 127831.	4.6	6

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91	Subacute inhalation of ultrafine particulate matter triggers inflammation without altering amyloid beta load in 5xFAD mice. <i>NeuroToxicology</i> , 2022, 89, 55-66.	1.4	6
92	Peak exposures to main components of ash and gaseous diesel exhausts in closed and open ash loading stations at biomass-fuelled power plants. <i>Chemosphere</i> , 2017, 185, 183-191.	4.2	4
93	High Temperature Electrical Charger to Reduce Particulate Emissions from Small Biomass-Fired Boilers. <i>Energies</i> , 2021, 14, 109.	1.6	3
94	Short-sea shipping contributions to particle concentration in coastal areas: Impact and mitigation. <i>Transportation Research, Part D: Transport and Environment</i> , 2022, 109, 103342.	3.2	3
95	A Novel Porous Tube Reactor for Nanoparticle Synthesis with Simultaneous Gas-Phase Reaction and Dilution. <i>Aerosol Science and Technology</i> , 2015, 49, 1170-1180.	1.5	2
96	PM1 AND CO EMISSIONS FROM FIVE WOOD SPECIES COMBUSTED IN A TOP-FEED PELLET STOVE. <i>Journal of Aerosol Science</i> , 2004, 35, S1103-S1104.	1.8	1
97	INDO-NORDEN – a consortium for developing holistic processes and land use practices for clean energy. <i>Energy Procedia</i> , 2017, 125, 363-371.	1.8	0