

Philip J Longhurst

List of Publications by Year in descending order

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87
papers

3,098
citations

147726

31
h-index

168321

53
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88
all docs

88
docs citations

88
times ranked

3461
citing authors

#	ARTICLE	IF	CITATIONS
1	Biomass resources and biofuels potential for the production of transportation fuels in Nigeria. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 63, 172-192.	8.2	249
2	Biodrying for mechanical biological treatment of wastes: A review of process science and engineering. <i>Bioresource Technology</i> , 2009, 100, 2747-2761.	4.8	222
3	Ammonia inhibition and toxicity in anaerobic digestion: A critical review. <i>Journal of Water Process Engineering</i> , 2019, 32, 100899.	2.6	222
4	Integrating phytoremediation with biomass valorisation and critical element recovery: A UK contaminated land perspective. <i>Biomass and Bioenergy</i> , 2015, 83, 328-339.	2.9	118
5	An R&D options selection model for investment decisions. <i>Technovation</i> , 2005, 25, 185-193.	4.2	114
6	Bioaerosol releases from compost facilities: Evaluating passive and active source terms at a green waste facility for improved risk assessments. <i>Atmospheric Environment</i> , 2006, 40, 1159-1169.	1.9	114
7	Production and Quality Assurance of Solid Recovered Fuels Using Mechanical Biological Treatment (MBT) of Waste: A Comprehensive Assessment. <i>Critical Reviews in Environmental Science and Technology</i> , 2010, 40, 979-1105.	6.6	94
8	A comparison of four sustainable manufacturing strategies. <i>International Journal of Sustainable Engineering</i> , 2008, 1, 214-229.	1.9	86
9	Molecular structure characterization of bituminous coal in Northern China via XRD, Raman and FTIR spectroscopy. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 255, 119724.	2.0	84
10	Critical review of real-time methods for solid waste characterisation: Informing material recovery and fuel production. <i>Waste Management</i> , 2017, 61, 40-57.	3.7	79
11	Optimising age-replacement and extended non-renewing warranty policies in lifecycle costing. <i>International Journal of Production Economics</i> , 2011, 130, 262-267.	5.1	75
12	Comparison of coal/solid recovered fuel (SRF) with coal/refuse derived fuel (RDF) in a fluidised bed reactor. <i>Waste Management</i> , 2011, 31, 1176-1183.	3.7	74
13	An integrated appraisal of energy recovery options in the United Kingdom using solid recovered fuel derived from municipal solid waste. <i>Waste Management</i> , 2009, 29, 2289-2297.	3.7	64
14	Estimating fugitive bioaerosol releases from static compost windrows: Feasibility of a portable wind tunnel approach. <i>Waste Management</i> , 2005, 25, 445-450.	3.7	63
15	Assessment of municipal waste compost as a daily cover material for odour control at landfill sites. <i>Environmental Pollution</i> , 2005, 135, 171-177.	3.7	62
16	The application of a new research and development project selection model in SMEs. <i>Technovation</i> , 2006, 26, 242-250.	4.2	60
17	Solid Recovered Fuel: Influence of Waste Stream Composition and Processing on Chlorine Content and Fuel Quality. <i>Environmental Science & Technology</i> , 2012, 46, 1923-1931.	4.6	56
18	Quantifying the percentage of methane formation via acetoclastic and syntrophic acetate oxidation pathways in anaerobic digesters. <i>Waste Management</i> , 2018, 71, 749-756.	3.7	55

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19	Dispersion of odour: a case study with a municipal solid waste landfill site in North London, United Kingdom. <i>Journal of Environmental Management</i> , 2003, 68, 153-160.	3.8	52
20	China's soil and groundwater management challenges: Lessons from the UK's experience and opportunities for China. <i>Environment International</i> , 2016, 91, 196-200.	4.8	47
21	Nutrient balancing for enhanced activated sludge reactor performance: UK perspective. <i>Water Science and Technology</i> , 2000, 41, 223-231.	1.2	43
22	Spatial variations in airborne microorganism and endotoxin concentrations at green waste composting facilities. <i>International Journal of Hygiene and Environmental Health</i> , 2011, 214, 376-383.	2.1	42
23	Morphological classification of bioaerosols from composting using scanning electron microscopy. <i>Waste Management</i> , 2014, 34, 1101-1108.	3.7	40
24	Development of an image-based analysis method to determine the physical composition of a mixed waste material. <i>Waste Management</i> , 2012, 32, 245-248.	3.7	39
25	Solid Recovered Fuel: Materials Flow Analysis and Fuel Property Development during the Mechanical Processing of Biodried Waste. <i>Environmental Science & Technology</i> , 2013, 47, 2957-2965.	4.6	38
26	Risk assessments for quality-assured, source-segregated composts and anaerobic digestates for a circular bioeconomy in the UK. <i>Environment International</i> , 2019, 127, 253-266.	4.8	38
27	Appropriateness of selecting different averaging times for modelling chronic and acute exposure to environmental odours. <i>Atmospheric Environment</i> , 2007, 41, 2870-2880.	1.9	37
28	CFD modelling of particle shrinkage in a fluidized bed for biomass fast pyrolysis with quadrature method of moment. <i>Fuel Processing Technology</i> , 2017, 164, 51-68.	3.7	36
29	Solidâ€gaseous phase transformation of elemental contaminants during the gasification of biomass. <i>Science of the Total Environment</i> , 2016, 563-564, 724-730.	3.9	35
30	Arsenic transformation behaviour during thermal decomposition of <i>P. vittata</i> , an arsenic hyperaccumulator. <i>Journal of Analytical and Applied Pyrolysis</i> , 2017, 124, 584-591.	2.6	34
31	Recent developments in the application of risk analysis to waste technologies. <i>Environment International</i> , 2006, 32, 1010-1020.	4.8	32
32	Use of dispersion modelling for Environmental Impact Assessment of biological air pollution from composting: Progress, problems and prospects. <i>Waste Management</i> , 2017, 70, 22-29.	3.7	32
33	Fabrication of agave tequilana bagasse/PLA composite and preliminary mechanical properties assessment. <i>Industrial Crops and Products</i> , 2020, 152, 112523.	2.5	30
34	Particle size distribution of airborne <i>Aspergillus fumigatus</i> spores emitted from compost using membrane filtration. <i>Atmospheric Environment</i> , 2009, 43, 5698-5701.	1.9	29
35	The biogenic content of process streams from mechanicalâ€biological treatment plants producing solid recovered fuel. Do the manual sorting and selective dissolution determination methods correlate?. <i>Waste Management</i> , 2010, 30, 1171-1182.	3.7	29
36	A conceptual framework for negotiating public involvement in municipal waste management decision-making in the UK. <i>Waste Management</i> , 2017, 66, 210-221.	3.7	29

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37	A critical review on risk evaluation and hazardous management in carcass burial. <i>Chemical Engineering Research and Design</i> , 2019, 123, 272-288.	2.7	29
38	Community modelling: a tool for correlating estimates of exposure with perception of odour from municipal solid waste (MSW) landfills. <i>Journal of Environmental Management</i> , 2003, 68, 133-140.	3.8	28
39	Improving bioaerosol exposure assessments of composting facilities – Comparative modelling of emissions from different compost ages and processing activities. <i>Atmospheric Environment</i> , 2007, 41, 4504-4519.	1.9	28
40	Investigation of the impact of trace elements on anaerobic volatile fatty acid degradation using a fractional factorial experimental design. <i>Water Research</i> , 2017, 125, 458-465.	5.3	28
41	Exploring the potential of Product Service Systems to achieve household waste prevention on new housing developments in the UK. <i>Waste Management and Research</i> , 2010, 28, 228-235.	2.2	27
42	Deep learning in material recovery: Development of method to create training database. <i>Expert Systems With Applications</i> , 2019, 125, 268-280.	4.4	27
43	Receptivity to the production of product service systems in the UK construction and manufacturing sectors: a comparative analysis. <i>Journal of Cleaner Production</i> , 2012, 32, 61-70.	4.6	26
44	A critical review of classification of organisations in relation to the voluntary implementation of environmental management systems. <i>Journal of Environmental Management</i> , 2012, 113, 206-212.	3.8	24
45	Recycling of food waste into chemical building blocks. <i>Current Opinion in Green and Sustainable Chemistry</i> , 2018, 13, 118-122.	3.2	24
46	Critical Reflections on Designing Product Service Systems. <i>Design Journal</i> , 2013, 16, 408-430.	0.5	17
47	Enumerating actinomycetes in compost bioaerosols at source – Use of soil compost agar to address plate –masking™. <i>Atmospheric Environment</i> , 2007, 41, 4759-4765.	1.9	16
48	Endotoxin emissions from commercial composting activities. <i>Environmental Health</i> , 2009, 8, S9.	1.7	15
49	Evaluation of inflammatory effects of airborne endotoxin emitted from composting sources. <i>Environmental Toxicology and Chemistry</i> , 2011, 30, 602-606.	2.2	15
50	Assessing the perception and reality of arguments against thermal waste treatment plants in terms of property prices. <i>Waste Management</i> , 2014, 34, 219-225.	3.7	15
51	Reaction mechanism of arsenic capture by a calcium-based sorbent during the combustion of arsenic-contaminated biomass: A pilot-scale experience. <i>Frontiers of Environmental Science and Engineering</i> , 2019, 13, 1.	3.3	14
52	Predicting <i>Aspergillus fumigatus</i> exposure from composting facilities using a dispersion model: A conditional calibration and validation. <i>International Journal of Hygiene and Environmental Health</i> , 2017, 220, 17-28.	2.1	13
53	Hidden flows and waste processing – an analysis of illustrative futures. <i>Environmental Technology (United Kingdom)</i> , 2010, 31, 1507-1516.	1.2	11
54	Up-cycling of agave tequilana bagasse-fibres: A study on the effect of fibre-surface treatments on interfacial bonding and mechanical properties. <i>Results in Materials</i> , 2020, 8, 100158.	0.9	11

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55	Intelligent Urban Management: Learning to Manage and Managing to Learn Together for a Change. <i>Urban Studies</i> , 2000, 37, 1801-1811.	2.2	10
56	Membrane Gas Absorbers for H ₂ S Removal – Design, Operation and Technology Integration into Existing Odour Treatment Strategies. <i>Environmental Technology (United Kingdom)</i> , 2005, 26, 793-804.	1.2	10
57	Carbon brainprint – An estimate of the intellectual contribution of research institutions to reducing greenhouse gas emissions. <i>Chemical Engineering Research and Design</i> , 2015, 96, 74-81.	2.7	10
58	Sensitivity of predicted bioaerosol exposure from open windrow composting facilities to ADMS dispersion model parameters. <i>Journal of Environmental Management</i> , 2016, 184, 448-455.	3.8	10
59	Using life cycle assessment in environmental engineering education. <i>Higher Education Pedagogies</i> , 2019, 4, 64-79.	2.1	10
60	Developing methods to evaluate odour control products. <i>Water Science and Technology</i> , 2004, 50, 225-232.	1.2	9
61	Methodological choices in enterprise systems research. <i>Business Process Management Journal</i> , 2010, 16, 76-92.	2.4	9
62	A Systems Approach to the Policy-Level Risk Assessment of Exotic Animal Diseases: Network Model and Application to Classical Swine Fever. <i>Risk Analysis</i> , 2013, 33, 1454-1472.	1.5	9
63	Innovational adaptation in the UK water and wastewater industry: a case study of introducing DTA. <i>Technovation</i> , 2000, 20, 37-45.	4.2	8
64	Experimental and kinetic study of thermal decomposition behaviour of phytoremediation derived <i>Pteris vittata</i> . <i>Journal of Thermal Analysis and Calorimetry</i> , 2017, 128, 1207-1216.	2.0	8
65	Spatio-temporal modelling of solar photovoltaic adoption: An integrated neural networks and agent-based modelling approach. <i>Applied Energy</i> , 2022, 305, 117949.	5.1	8
66	Determination of renewable energy yield from mixed waste material from the use of novel image analysis methods. <i>Waste Management</i> , 2013, 33, 2449-2456.	3.7	7
67	Characterising the composition of waste-derived fuels using a novel image analysis tool. <i>Waste Management</i> , 2015, 40, 9-13.	3.7	7
68	Intervention Strategies for Carcass Disposal: Pareto Analysis of Exposures for Exotic Disease Outbreaks. <i>Environmental Science & Technology</i> , 2010, 44, 4416-4425.	4.6	6
69	Zeolite for Nutrient Stripping From Farm Effluents. , 2016, , 569-589.		6
70	Unearthing the Dynamics of Indonesia's Geothermal Energy Development. <i>Energies</i> , 2022, 15, 5009.	1.6	6
71	Direct toxicity assessment: adaptation and the proactive roles of regulators and operators. <i>Technovation</i> , 2000, 20, 313-320.	4.2	5
72	Phytoremediation-biorefinery tandem for effective clean-up of metal contaminated soil and biomass valorisation. <i>International Journal of Phytoremediation</i> , 2017, 19, 965-975.	1.7	5

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73	Stakeholdersâ€™ Recount on the Dynamics of Indonesiaâ€™s Renewable Energy Sector. <i>Energies</i> , 2021, 14, 2762.	1.6	5
74	Comparison of dispersion models for assessing odour from municipal solid wastes. <i>Waste Management and Research</i> , 2000, 18, 420-428.	2.2	4
75	Odour management plans: a risk-based approach using stakeholder data. <i>Water Science and Technology</i> , 2004, 50, 17-23.	1.2	4
76	Residues characterisation from the fluidised bed combustion of East Londonâ€™s solid recovered fuel. <i>Waste Management</i> , 2010, 30, 1318-1324.	3.7	4
77	An assessment of different extraction and quantification methods of penta- and hexa-chlorobenzene from SRF fly-ash. <i>Analytical Chemistry Research</i> , 2017, 12, 28-33.	2.0	4
78	Microbial and endotoxin emission from composting facilities: characterisation of release and dispersal patterns. , 2009, , .		4
79	U.K. Foot and Mouth Disease: A Systemic Risk Assessment of Existing Controls. <i>Risk Analysis</i> , 2017, 37, 1768-1782.	1.5	3
80	Editorial: Circular economy in the built environment. <i>Proceedings of Institution of Civil Engineers: Waste and Resource Management</i> , 2017, 170, 1-2.	0.9	3
81	Influence of coalification on methane diffusion dynamics in middle-high rank coals. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 0, , 1-15.	1.2	2
82	Comparison of dispersion models for assessing odour from municipal solid wastes. <i>Waste Management and Research</i> , 2000, 18, 420-428.	2.2	1
83	The â€˜bankabilityâ€™ of the new waste technologies: an econometric method for risk sharing in private finance waste contracts. <i>Environmental Technology (United Kingdom)</i> , 2011, 32, 1699-1707.	1.2	0
84	Response to Comment on â€œSolid Recovered Fuel: Materials Flow Analysis and Fuel Property Development during the Mechanical Processing of Biodried Wasteâ€. <i>Environmental Science & Technology</i> , 2013, 47, 14535-14536.	4.6	0
85	Book reviewJ. W. C. Wong, R. Y. Surampalli, T. C. Zhang, R. D. Tyagi and A. Selvam (eds). <i>American Society of Chemical Engineers</i> , Reston, VA, USA, 2016, ISBN 978-0-7844-1410-1, US\$170, 750 pp.. <i>Proceedings of Institution of Civil Engineers: Waste and Resource Management</i> , 2018, 171, 61-61.	0.9	0
86	Improving exposure assessment of bioaerosol emissions from composting: Dispersion model tests. <i>ISEE Conference Abstracts</i> , 2016, 2016, .	0.0	0
87	Too fast to bother Integrity, instrumentality, and externality factors for early sustainable design implementation in the fast-moving-consumer-goods sector. <i>Journal of Design Research</i> , 2020, 1, 1.	0.1	0