

Richard J Murphy

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/3862483/richard-j-murphy-publications-by-year.pdf>

Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

102
papers

8,639
citations

35
h-index

92
g-index

104
ext. papers

9,489
ext. citations

7
avg, IF

5.76
L-index

#	Paper	IF	Citations
102	Using Data from Earth Observation to Support Sustainable Development Indicators: An Analysis of the Literature and Challenges for the Future. <i>Sustainability</i> , 2022 , 14, 1191	3.6	1
101	Poor Air Quality in Urban Settings: A Comparison of Perceptual Indicators, Causes and Management in Two Cities. <i>Sustainability</i> , 2022 , 14, 1438	3.6	3
100	Life Cycle Assessment of the High Performance Discontinuous Fibre (HiPerDiF) Technology and Its Operation in Various Countries. <i>Sustainability</i> , 2022 , 14, 1922	3.6	1
99	Assessing Urban Vulnerability to Flooding: A Framework to Measure Resilience Using Remote Sensing Approaches. <i>Sustainability</i> , 2022 , 14, 2276	3.6	0
98	Spatial Analysis of Air Quality Assessment in Two Cities in Nigeria: A Comparison of Perceptions with Instrument-Based Methods. <i>Sustainability</i> , 2022 , 14, 5403	3.6	1
97	Investigating the Impact of COVID-19 Disruption on the Decarbonisation Agenda at Airports: Grounded or Ready for Take-Off?. <i>Sustainability</i> , 2021 , 13, 12235	3.6	1
96	Can Current Earth Observation Technologies Provide Useful Information on Soil Organic Carbon Stocks for Environmental Land Management Policy?. <i>Sustainability</i> , 2021 , 13, 12074	3.6	4
95	Designing a Sustainability Assessment Framework for Selecting Sustainable Wastewater Treatment Technologies in Corporate Asset Decisions. <i>Sustainability</i> , 2021 , 13, 3831	3.6	6
94	BioLPG for Clean Cooking in Sub-Saharan Africa: Present and Future Feasibility of Technologies, Feedstocks, Enabling Conditions and Financing. <i>Energies</i> , 2021 , 14, 3916	3.1	2
93	Bottled Biogas: An Opportunity for Clean Cooking in Ghana and Uganda. <i>Energies</i> , 2021 , 14, 3856	3.1	1
92	A Life Cycle Engineering Perspective on Biocomposites as a Solution for a Sustainable Recovery. <i>Sustainability</i> , 2021 , 13, 1160	3.6	21
91	Earth Observation for Monitoring, Reporting, and Verification within Environmental Land Management Policy. <i>Sustainability</i> , 2021 , 13, 9105	3.6	2
90	Breaking Down the Barriers: Exploring the Role of Collaboration in the Forestry Sector of South East England. <i>Sustainability</i> , 2021 , 13, 10258	3.6	
89	A Prospective Social Life Cycle Assessment (sLCA) of Electricity Generation from Municipal Solid Waste in Nigeria. <i>Sustainability</i> , 2021 , 13, 10177	3.6	2
88	Challenges in Using Earth Observation (EO) Data to Support Environmental Management in Brazil. <i>Sustainability</i> , 2020 , 12, 10411	3.6	3
87	Seeing the Wood for the Trees: Factors Limiting Woodland Management and Sustainable Local Wood Product Use in the South East of England. <i>Sustainability</i> , 2020 , 12, 10071	3.6	1
86	Vitamin D and SARS-CoV-2 virus/COVID-19 disease. <i>BMJ Nutrition, Prevention and Health</i> , 2020 , 3, 106-110	107	72

85	Information from Earth Observation for the Management of Sustainable Land Use and Land Cover in Brazil: An Analysis of User Needs. <i>Sustainability</i> , 2020 , 12, 489	3.6	5
84	Key actions for a sustainable chemicals policy. <i>Environment International</i> , 2020 , 137, 105463	12.9	2
83	Translation of Earth observation data into sustainable development indicators: An analytical framework. <i>Sustainable Development</i> , 2019 , 27, 366-376	6.7	34
82	Seeing Sustainability from Space: Using Earth Observation Data to Populate the UN Sustainable Development Goal Indicators. <i>Sustainability</i> , 2019 , 11, 5062	3.6	21
81	Second-generation bio-based plastics are becoming a reality [Non-renewable energy and greenhouse gas (GHG) balance of succinic acid-based plastic end products made from lignocellulosic biomass. <i>Biofuels, Bioproducts and Biorefining</i> , 2018 , 12, 426-441	5.3	26
80	Role of bioenergy, biorefinery and bioeconomy in sustainable development: Strategic pathways for Malaysia. <i>Renewable and Sustainable Energy Reviews</i> , 2018 , 81, 1966-1987	16.2	87
79	Methodological analysis of palm oil biodiesel life cycle studies. <i>Renewable and Sustainable Energy Reviews</i> , 2018 , 94, 694-704	16.2	28
78	The energy efficiency behaviour of individuals in large organisations: A case study of a major UK infrastructure operator. <i>Energy Policy</i> , 2017 , 104, 38-49	7.2	21
77	The Challenges of Applying Planetary Boundaries as a Basis for Strategic Decision-Making in Companies with Global Supply Chains. <i>Sustainability</i> , 2017 , 9, 279	3.6	55
76	Developing database criteria for the assessment of biomass supply chains for biorefinery development. <i>Chemical Engineering Research and Design</i> , 2016 , 107, 253-262	5.5	23
75	Considering evidence: The approach taken by the Hazardous Substances Advisory Committee in the UK. <i>Environment International</i> , 2016 , 92-93, 565-8	12.9	0
74	X-ray micro-computed tomography in willow reveals tissue patterning of reaction wood and delay in programmed cell death. <i>BMC Plant Biology</i> , 2015 , 15, 83	5.3	14
73	Bioethanol from poplar clone Imola: an environmentally viable alternative to fossil fuel?. <i>Biotechnology for Biofuels</i> , 2015 , 8, 134	7.8	16
72	An economic and environmental evaluation for bamboo-derived bioethanol. <i>RSC Advances</i> , 2014 , 4, 29604-29611	9.7	11
71	Insights into nitrogen allocation and recycling from nitrogen elemental analysis and ¹⁵ N isotope labelling in 14 genotypes of willow. <i>Tree Physiology</i> , 2014 , 34, 1252-62	4.2	14
70	The environmental profile of bioethanol produced from current and potential future poplar feedstocks in the EU. <i>Green Chemistry</i> , 2014 , 16, 4680-4695	10	37
69	Bioethanol from poplar: a commercially viable alternative to fossil fuel in the European Union. <i>Biotechnology for Biofuels</i> , 2014 , 7, 113	7.8	23
68	Life cycle assessment of potential energy uses for short rotation willow biomass in Sweden. <i>International Journal of Life Cycle Assessment</i> , 2013 , 18, 783-795	4.6	32

67	Environmental sustainability of bioethanol production from wheat straw in the UK. <i>Renewable and Sustainable Energy Reviews</i> , 2013 , 28, 715-725	16.2	95
66	Techno-economic potential of bioethanol from bamboo in China. <i>Biotechnology for Biofuels</i> , 2013 , 6, 173	7.8	65
65	Is it possible to develop biopolymer production systems independent of fossil fuels? Case study in energy profiling of polyhydroxybutyrate-valerate (PHBV). <i>Green Chemistry</i> , 2013 , 15, 706	10	24
64	End-of-life of starch-polyvinyl alcohol biopolymers. <i>Bioresource Technology</i> , 2013 , 127, 256-66	11	9
63	Bioethanol production from various waste papers: Economic feasibility and sensitivity analysis. <i>Applied Energy</i> , 2013 , 111, 1172-1182	10.7	62
62	Importance of policy support and feedstock prices on economic feasibility of bioethanol production from wheat straw in the UK. <i>Renewable and Sustainable Energy Reviews</i> , 2013 , 17, 291-300	16.2	47
61	Comparative life cycle assessment of ethanol production from fast-growing wood crops (black locust, eucalyptus and poplar). <i>Biomass and Bioenergy</i> , 2012 , 39, 378-388	5.3	70
60	Environmental assessment of energy production based on long term commercial willow plantations in Sweden. <i>Science of the Total Environment</i> , 2012 , 421-422, 210-9	10.2	58
59	Eco-innovation of a wooden childhood furniture set: an example of environmental solutions in the wood sector. <i>Science of the Total Environment</i> , 2012 , 426, 318-26	10.2	35
58	Present and future environmental impact of poplar cultivation in the Po Valley (Italy) under different crop management systems. <i>Journal of Cleaner Production</i> , 2012 , 26, 56-66	10.3	57
57	Is There a Generic Environmental Advantage for StarchPVOH Biopolymers Over Petrochemical Polymers?. <i>Journal of Polymers and the Environment</i> , 2012 , 20, 976-990	4.5	10
56	Environmental sustainability of bioethanol production from waste papers: sensitivity to the system boundary. <i>Energy and Environmental Science</i> , 2012 , 5, 8281	35.4	26
55	LCA data quality: sensitivity and uncertainty analysis. <i>Science of the Total Environment</i> , 2012 , 435-436, 230-43	10.2	139
54	A Life Cycle Assessment (LCA) comparison of three management options for waste papers: bioethanol production, recycling and incineration with energy recovery. <i>Bioresource Technology</i> , 2012 , 120, 89-98	11	59
53	Reaction wood - a key cause of variation in cell wall recalcitrance in willow. <i>Biotechnology for Biofuels</i> , 2012 , 5, 83	7.8	30
52	High-solids loading enzymatic hydrolysis of waste papers for biofuel production. <i>Applied Energy</i> , 2012 , 99, 23-31	10.7	59
51	Variation in Cell Wall Composition and Accessibility in Relation to Biofuel Potential of Short Rotation Coppice Willows. <i>Bioenergy Research</i> , 2012 , 5, 685-698	3.1	42
50	Technology performance and economic feasibility of bioethanol production from various waste papers. <i>Energy and Environmental Science</i> , 2012 , 5, 5717-5730	35.4	52

49	Influence of agro-ecosystem modeling approach on the greenhouse gas profiles of wheat-derived biopolymer products. <i>Environmental Science & Technology</i> , 2012 , 46, 320-30	10.3	17
48	Soaking of pine wood chips with ionic liquids for reduced energy input during grinding. <i>Green Chemistry</i> , 2012 , 14, 1079	10	32
47	Life cycle assessment of two alternative bioenergy systems involving <i>Salix</i> spp. biomass: Bioethanol production and power generation. <i>Applied Energy</i> , 2012 , 95, 111-122	10.7	90
46	Life Cycle Assessment and sustainability methodologies for assessing industrial crops, processes and end products. <i>Industrial Crops and Products</i> , 2011 , 34, 1332-1339	5.9	32
45	Energy and greenhouse gas balance of the use of forest residues for bioenergy production in the UK. <i>Biomass and Bioenergy</i> , 2011 , 35, 4581-4594	5.3	71
44	Anaerobic digestion of starch-polyvinyl alcohol biopolymer packaging: biodegradability and environmental impact assessment. <i>Bioresource Technology</i> , 2011 , 102, 11137-46	11	27
43	Ionic liquid pretreatment of lignocellulosic biomass with ionic liquid/water mixtures. <i>Green Chemistry</i> , 2011 , 13, 2489	10	376
42	Global developments in the competition for land from biofuels. <i>Food Policy</i> , 2011 , 36, S52-S61	5	89
41	Investigation of tension wood formation and 2,6-dichlorobenzonitrile application in short rotation coppice willow composition and enzymatic saccharification. <i>Biotechnology for Biofuels</i> , 2011 , 4, 13	7.8	28
40	Biofuels carbon footprints: Whole-systems optimisation for GHG emissions reduction. <i>Bioresource Technology</i> , 2011 , 102, 7457-65	11	35
39	Comment on "Sustainability metrics: life cycle assessment and green design in polymers". <i>Environmental Science & Technology</i> , 2011 , 45, 5055-6; author reply 5058-9	10.3	1
38	Energy and the food system. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2010 , 365, 2991-3006	5.8	177
37	Effect of Ethanol Organosolv Pretreatment on Enzymatic Hydrolysis of <i>Buddleja davidii</i> Stem Biomass. <i>Industrial & Engineering Chemistry Research</i> , 2010 , 49, 1467-1472	3.9	84
36	The effect of the ionic liquid anion in the pretreatment of pine wood chips. <i>Green Chemistry</i> , 2010 , 12, 672	10	273
35	QTL Mapping of Enzymatic Saccharification in Short Rotation Coppice Willow and Its Independence from Biomass Yield. <i>Bioenergy Research</i> , 2010 , 3, 251-261	3.1	43
34	Correlation between anatomical characteristics of ethanol organosolv pretreated <i>Buddleja davidii</i> and its enzymatic conversion to glucose. <i>Biotechnology and Bioengineering</i> , 2010 , 107, 795-801	4.9	19
33	Brown rot fungal early stage decay mechanism as a biological pretreatment for softwood biomass in biofuel production. <i>Biomass and Bioenergy</i> , 2010 , 34, 1257-1262	5.3	71
32	Assessment of technical and environmental performances of wheat-based foams in thermal packaging applications. <i>Packaging Technology and Science</i> , 2010 , 23, 363-382	2.3	11

31	Physical and mechanical properties of flame retardant urea formaldehyde medium density fiberboard. <i>Journal of Materials Processing Technology</i> , 2009 , 209, 635-640	5.3	30
30	Biodegradable and compostable alternatives to conventional plastics. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2009 , 364, 2127-39	5.8	450
29	Biomass characterization of <i>Buddleja davidii</i> : a potential feedstock for biofuel production. <i>Journal of Agricultural and Food Chemistry</i> , 2009 , 57, 1275-81	5.7	89
28	Greenhouse gas emissions from four bioenergy crops in England and Wales: Integrating spatial estimates of yield and soil carbon balance in life cycle analyses. <i>GCB Bioenergy</i> , 2009 , 1, 267-281	5.6	125
27	The protective role of the extracellular mucilaginous material (ECMM) from two wood-rotting basidiomycetes against copper toxicity. <i>International Biodeterioration and Biodegradation</i> , 2007 , 60, 1-7	4.8	13
26	Life cycle assessment of wastewater treatment technologies treating petroleum process waters. <i>Science of the Total Environment</i> , 2006 , 367, 58-70	10.2	75
25	Fungicides affect the production of extracellular mucilaginous material (ECMM) and the peripheral growth unit (PGU) in two wood-rotting basidiomycetes. <i>Mycological Research</i> , 2006 , 110, 1207-13		15
24	Analysis of the hyphal load during early stages of wood decay by basidiomycetes in the presence of the wood preservative fungicides CuSO ₄ and cyproconazole. <i>Holzforschung</i> , 2006 , 60, 637-642	2	3
23	The path forward for biofuels and biomaterials. <i>Science</i> , 2006 , 311, 484-9	33.3	4274
22	Monitoring losses of copper based wood preservatives in the Thames estuary. <i>Environmental Pollution</i> , 2006 , 143, 367-75	9.3	6
21	The production of extracellular mucilaginous material (ECMM) in two wood-rotting basidiomycetes is affected by growth conditions. <i>Mycologia</i> , 2005 , 97, 1163-1170	2.4	9
20	The production of extracellular mucilaginous material (ECMM) in two wood-rotting basidiomycetes is affected by growth conditions. <i>Mycologia</i> , 2005 , 97, 1163-70	2.4	11
19	Ultrastructure of fibre and parenchyma cell walls during early stages of culm development in <i>Dendrocalamus asper</i> . <i>Annals of Botany</i> , 2005 , 95, 619-29	4.1	43
18	The inhibition of microbial growth by bamboo vinegar. <i>Perspectives on Global Development and Technology</i> , 2005 , 4, 71-80	0.2	6
17	Developmental changes in cell wall structure of phloem fibres of the bamboo <i>Dendrocalamus asper</i> . <i>Annals of Botany</i> , 2004 , 94, 497-505	4.1	55
16	Speciation of Cr and As Leachates from CCA Treated Wood by Differential Pulse Polarography. <i>Holzforschung</i> , 2003 , 57, 597-601	2	5
15	The use of the Decay Susceptibility Index (DSI) in the evaluation of biological durability tests of wood based board materials. <i>European Journal of Wood and Wood Products</i> , 2002 , 60, 224-226	2.1	7
14	Influence of leaching protocol regimes on losses of wood preservative biocides. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2002 , 68, 118-25	2.7	6

13	The importance of the short-term leaching dynamics of wood preservatives. <i>Chemosphere</i> , 2002 , 47, 517-23	8.4	14
12	Leaching of chromated copper arsenate wood preservatives: a review. <i>Environmental Pollution</i> , 2001 , 111, 53-66	9.3	241
11	Microfibril orientation in differentiating and maturing fibre and parenchyma cell walls in culms of bamboo (Carr.) Riv. & Riv.). <i>Botanical Journal of the Linnean Society</i> , 2000 , 134, 339-359	2.2	14
10	Microdistribution of Some Copper and Zinc Containing Waterborne and Organic Solvent Wood Preservatives in Spruce Wood Cell Walls. <i>Holzforschung</i> , 2000 , 54, 23-26	2	12
9	An introduction to life cycle assessment (LCA) of painted timber components. <i>Journal of Coatings Technology and Research</i> , 1999 , 82, 482-487		
8	Investigation of the extracellular mucilaginous materials produced by some wood decay fungi. <i>Mycological Research</i> , 1999 , 103, 1453-1461		23
7	Treatment of timber products with gaseous borate esters. <i>Wood Science and Technology</i> , 1998 , 32, 25-31	2.5	0
6	Treatment of timber products with gaseous borate esters Part 2. Process improvement. <i>Wood Science and Technology</i> , 1998 , 32, 25-31	2.5	
5	Fibre Maturation in the Bamboo <i>Gigantochloa Scortechinii</i> . <i>IAWA Journal</i> , 1997 , 18, 147-156	2.3	20
4	Treatment of timber products with gaseous borate esters. <i>Wood Science and Technology</i> , 1995 , 29, 385	2.5	2
3	Electron Paramagnetic Resonance (EPR) Spectroscopic Analysis of Copper Based Preservatives in <i>Pinus sylvestris</i> . <i>Holzforschung</i> , 1994 , 48, 91-98	2	29
2	A vapour phase preservative treatment of manufactured wood based board materials. <i>Wood Science and Technology</i> , 1989 , 23, 273-279	2.5	7
1	Production of copper oxalate by some copper tolerant fungi. <i>Transactions of the British Mycological Society</i> , 1983 , 81, 165-168		72