

Richard J Murphy

List of Publications by Citations

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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	The path forward for biofuels and biomaterials. <i>Science</i> , 2006 , 311, 484-9	33.3	4274
101	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
100	Ionic liquid pretreatment of lignocellulosic biomass with ionic liquid/water mixtures. <i>Green Chemistry</i> , 2011 , 13, 2489	10	376
99	The effect of the ionic liquid anion in the pretreatment of pine wood chips. <i>Green Chemistry</i> , 2010 , 12, 672	10	273
98	Leaching of chromated copper arsenate wood preservatives: a review. <i>Environmental Pollution</i> , 2001 , 111, 53-66	9.3	241
97	Energy and the food system. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2010 , 365, 2991-3006	5.8	177
96	LCA data quality: sensitivity and uncertainty analysis. <i>Science of the Total Environment</i> , 2012 , 435-436, 230-43	10.2	139
95	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
94	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
93	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
92	Global developments in the competition for land from biofuels. <i>Food Policy</i> , 2011 , 36, S52-S61	5	89
91	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
90	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
89	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
88	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
87	Vitamin D and SARS-CoV-2 virus/COVID-19 disease. <i>BMJ Nutrition, Prevention and Health</i> , 2020 , 3, 106-110	10.7	72
86	Production of copper oxalate by some copper tolerant fungi. <i>Transactions of the British Mycological Society</i> , 1983 , 81, 165-168		72

85	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
84	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
83	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
82	Techno-economic potential of bioethanol from bamboo in China. <i>Biotechnology for Biofuels</i> , 2013 , 6, 173	7.8	65
81	Bioethanol production from various waste papers: Economic feasibility and sensitivity analysis. <i>Applied Energy</i> , 2013 , 111, 1172-1182	10.7	62
80	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
79	High-solids loading enzymatic hydrolysis of waste papers for biofuel production. <i>Applied Energy</i> , 2012 , 99, 23-31	10.7	59
78	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
77	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
76	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
75	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
74	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
73	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
72	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
71	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
70	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
69	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
68	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

67	Biofuels carbon footprints: Whole-systems optimisation for GHG emissions reduction. <i>Bioresource Technology</i> , 2011 , 102, 7457-65	11	35
66	Translation of Earth observation data into sustainable development indicators: An analytical framework. <i>Sustainable Development</i> , 2019 , 27, 366-376	6.7	34
65	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
64	Soaking of pine wood chips with ionic liquids for reduced energy input during grinding. <i>Green Chemistry</i> , 2012 , 14, 1079	10	32
63	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
62	Reaction wood - a key cause of variation in cell wall recalcitrance in willow. <i>Biotechnology for Biofuels</i> , 2012 , 5, 83	7.8	30
61	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
60	Electron Paramagnetic Resonance (EPR) Spectroscopic Analysis of Copper Based Preservatives in <i>Pinus sylvestris</i> . <i>Holzforschung</i> , 1994 , 48, 91-98	2	29
59	Methodological analysis of palm oil biodiesel life cycle studies. <i>Renewable and Sustainable Energy Reviews</i> , 2018 , 94, 694-704	16.2	28
58	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
57	Anaerobic digestion of starch-polyvinyl alcohol biopolymer packaging: biodegradability and environmental impact assessment. <i>Bioresource Technology</i> , 2011 , 102, 11137-46	11	27
56	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
55	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
54	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
53	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
52	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
51	Investigation of the extracellular mucilaginous materials produced by some wood decay fungi. <i>Mycological Research</i> , 1999 , 103, 1453-1461		23
50	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

49	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
48	A Life Cycle Engineering Perspective on Biocomposites as a Solution for a Sustainable Recovery. <i>Sustainability</i> , 2021 , 13, 1160	3.6	21
47	Fibre Maturation in the Bamboo <i>Gigantochloa Scortechinii</i> . <i>IAWA Journal</i> , 1997 , 18, 147-156	2.3	20
46	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
45	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
44	Bioethanol from poplar clone Imola: an environmentally viable alternative to fossil fuel?. <i>Biotechnology for Biofuels</i> , 2015 , 8, 134	7.8	16
43	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
42	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
41	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
40	The importance of the short-term leaching dynamics of wood preservatives. <i>Chemosphere</i> , 2002 , 47, 517-23	8.4	14
39	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
38	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
37	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
36	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
35	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
34	Is There a Generic Environmental Advantage for StarchBVOH Biopolymers Over Petrochemical Polymers?. <i>Journal of Polymers and the Environment</i> , 2012 , 20, 976-990	4.5	10
33	An economic and environmental evaluation for bamboo-derived bioethanol. <i>RSC Advances</i> , 2014 , 4, 29604-29611	4.7	10
32	End-of-life of starch-polyvinyl alcohol biopolymers. <i>Bioresource Technology</i> , 2013 , 127, 256-66	11	9

31	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
30	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
29	A vapour phase preservative treatment of manufactured wood based board materials. <i>Wood Science and Technology</i> , 1989 , 23, 273-279	2.5	7
28	Monitoring losses of copper based wood preservatives in the Thames estuary. <i>Environmental Pollution</i> , 2006 , 143, 367-75	9.3	6
27	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
26	The inhibition of microbial growth by bamboo vinegar. <i>Perspectives on Global Development and Technology</i> , 2005 , 4, 71-80	0.2	6
25	Designing a Sustainability Assessment Framework for Selecting Sustainable Wastewater Treatment Technologies in Corporate Asset Decisions. <i>Sustainability</i> , 2021 , 13, 3831	3.6	6
24	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
23	Speciation of Cr and As Leachates from CCA Treated Wood by Differential Pulse Polarography. <i>Holzforschung</i> , 2003 , 57, 597-601	2	5
22	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
21	Challenges in Using Earth Observation (EO) Data to Support Environmental Management in Brazil. <i>Sustainability</i> , 2020 , 12, 10411	3.6	3
20	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
19	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
18	Key actions for a sustainable chemicals policy. <i>Environment International</i> , 2020 , 137, 105463	12.9	2
17	Treatment of timber products with gaseous borate esters. <i>Wood Science and Technology</i> , 1995 , 29, 385	2.5	2
16	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
15	Earth Observation for Monitoring, Reporting, and Verification within Environmental Land Management Policy. <i>Sustainability</i> , 2021 , 13, 9105	3.6	2
14	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

13	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
12	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
11	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
10	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
9	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
8	Bottled Biogas—An Opportunity for Clean Cooking in Ghana and Uganda. <i>Energies</i> , 2021 , 14, 3856	3.1	1
7	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
6	Treatment of timber products with gaseous borate esters. <i>Wood Science and Technology</i> , 1998 , 32, 25-31	2.5	0
5	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
4	Assessing Urban Vulnerability to Flooding: A Framework to Measure Resilience Using Remote Sensing Approaches. <i>Sustainability</i> , 2022 , 14, 2276	3.6	0
3	An introduction to life cycle assessment (LCA) of painted timber components. <i>Journal of Coatings Technology and Research</i> , 1999 , 82, 482-487		
2	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	
1	Treatment of timber products with gaseous borate esters Part 2. Process improvement. <i>Wood Science and Technology</i> , 1998 , 32, 25-31	2.5	