

Rupert J Myers

List of Publications by Year in Descending Order

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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.

42
papers

2,606
citations

23
h-index

44
g-index

44
ext. papers

3,476
ext. citations

7.2
avg, IF

5.63
L-index

#	Paper	IF	Citations
42	A Database for the Extraction, Trade, and Use of Sand and Gravel. <i>Resources</i> , 2022 , 11, 38	3.7	1
41	Retraction: Morley et al. A Database for the Extraction, Trade, and Use of Sand and Gravel. <i>Resources</i> 2022, 11, 38. <i>Resources</i> , 2022 , 11, 50	3.7	0
40	Reply to a discussion of a research agenda on systems approaches to infrastructure by David Elms. <i>Civil Engineering and Environmental Systems</i> , 2021 , 38, 295-297	2.1	
39	Achieving net zero greenhouse gas emissions in the cement industry via value chain mitigation strategies. <i>One Earth</i> , 2021 , 4, 1398-1411	8.1	9
38	A Roadmap for Production of Cement and Concrete with Low-CO ₂ Emissions. <i>Waste and Biomass Valorization</i> , 2021 , 12, 4745-4775	3.2	6
37	Decarbonizing the cementitious materials cycle: A whole-systems review of measures to decarbonize the cement supply chain in the UK and European contexts. <i>Journal of Industrial Ecology</i> , 2021 , 25, 359-376	7.2	10
36	Log Mean Divisia Index Decomposition Analysis of the Demand for Building Materials: Application to Concrete, Dwellings, and the U.K. <i>Environmental Science & Technology</i> , 2021 , 55, 2767-2778	10.3	4
35	Ramifications of Indian vehicle scrapping policy across the mobility sector. <i>Resources, Conservation and Recycling</i> , 2021 , 174, 105845	11.9	0
34	Methodology for pH measurement in high alkali cementitious systems. <i>Cement and Concrete Research</i> , 2020 , 135, 106122	10.3	14
33	Permeability is the Critical Factor Governing the Life Cycle Environmental Performance of Drinking Water Treatment Using Living Filtration Membranes. <i>Environmental Science & Technology</i> , 2020 , 54, 7651-7658	10.3	0
32	Analysis of Barriers to Transitioning from a Linear to a Circular Economy for End of Life Materials: A Case Study for Waste Feathers. <i>Sustainability</i> , 2020 , 12, 1725	3.6	19
31	A research agenda on systems approaches to infrastructure. <i>Civil Engineering and Environmental Systems</i> , 2020 , 37, 214-233	2.1	10
30	Environmental Impacts of Alternative Cement Binders. <i>Environmental Science & Technology</i> , 2020 , 54, 677-686	10.3	39
29	The sponge effect and carbon emission mitigation potentials of the global cement cycle. <i>Nature Communications</i> , 2020 , 11, 3777	17.4	31
28	Understanding the sulfate attack of Portland cement-based materials exposed to applied electric fields: Mineralogical alteration and migration behavior of ionic species. <i>Cement and Concrete Composites</i> , 2020 , 111, 103630	8.6	13
27	YSTAFDB, a unified database of material stocks and flows for sustainability science. <i>Scientific Data</i> , 2019 , 6, 84	8.2	12
26	Machine Learning for Sustainable Structures: A Call for Data. <i>Structures</i> , 2019 , 19, 1-4	3.4	22

25	Cemdata18: A chemical thermodynamic database for hydrated Portland cements and alkali-activated materials. <i>Cement and Concrete Research</i> , 2019 , 115, 472-506	10.3	303
24	The chemistry and structure of calcium (alumino) silicate hydrate: A study by XANES, ptychographic imaging, and wide- and small-angle scattering. <i>Cement and Concrete Research</i> , 2019 , 115, 367-378	10.3	59
23	Unified Materials Information System (UMIS): An Integrated Material Stocks and Flows Data Structure. <i>Journal of Industrial Ecology</i> , 2019 , 23, 222-240	7.2	11
22	Nullius in Verba1: Advancing Data Transparency in Industrial Ecology. <i>Journal of Industrial Ecology</i> , 2018 , 22, 6-17	7.2	26
21	Effect of Gypsum on the Early Hydration of Cubic and Na-Doped Orthorhombic Tricalcium Aluminate. <i>Materials</i> , 2018 , 11,	3.5	9
20	Implications of Emerging Vehicle Technologies on Rare Earth Supply and Demand in the United States. <i>Resources</i> , 2018 , 7, 9	3.7	38
19	Synchrotron X-ray nanotomographic and spectromicroscopic study of the tricalcium aluminate hydration in the presence of gypsum. <i>Cement and Concrete Research</i> , 2018 , 111, 130-137	10.3	45
18	Phase diagrams for alkali-activated slag binders. <i>Cement and Concrete Research</i> , 2017 , 95, 30-38	10.3	96
17	Aluminum-induced dreierketten chain cross-links increase the mechanical properties of nanocrystalline calcium aluminosilicate hydrate. <i>Scientific Reports</i> , 2017 , 7, 44032	4.9	75
16	Role of Adsorption Phenomena in Cubic Tricalcium Aluminate Dissolution. <i>Langmuir</i> , 2017 , 33, 45-55	4	63
15	Densification of the interlayer spacing governs the nanomechanical properties of calcium-silicate-hydrate. <i>Scientific Reports</i> , 2017 , 7, 10986	4.9	77
14	Solution chemistry of cubic and orthorhombic tricalcium aluminate hydration. <i>Cement and Concrete Research</i> , 2017 , 100, 176-185	10.3	34
13	Effects of CO ₂ and temperature on the structure and chemistry of C(A,S,H) investigated by Raman spectroscopy. <i>RSC Advances</i> , 2017 , 7, 48925-48933	3.7	46
12	Ca L _{2,3} -edge near edge X-ray absorption fine structure of tricalcium aluminate, gypsum, and calcium (sulfo)aluminate hydrates. <i>American Mineralogist</i> , 2017 , 102, 900-908	2.9	13
11	Thermodynamic modelling of alkali-activated slag cements. <i>Applied Geochemistry</i> , 2015 , 61, 233-247	3.5	111
10	Effect of temperature and aluminium on calcium (alumino)silicate hydrate chemistry under equilibrium conditions. <i>Cement and Concrete Research</i> , 2015 , 68, 83-93	10.3	165
9	The Role of Al in Cross-Linking of Alkali-Activated Slag Cements. <i>Journal of the American Ceramic Society</i> , 2015 , 98, 996-1004	3.8	119
8	Role of carbonates in the chemical evolution of sodium carbonate-activated slag binders. <i>Materials and Structures/Materiaux Et Constructions</i> , 2015 , 48, 517-529	3.4	121

7	Composition-solubility-structure relationships in calcium (alkali) aluminosilicate hydrate (C-(N,K-)A-S-H). <i>Dalton Transactions</i> , 2015 , 44, 13530-44	4.3	37
6	A thermodynamic model for C-(N-)A-S-H gel: CNASH_ss. Derivation and validation. <i>Cement and Concrete Research</i> , 2014 , 66, 27-47	10.3	122
5	MgO content of slag controls phase evolution and structural changes induced by accelerated carbonation in alkali-activated binders. <i>Cement and Concrete Research</i> , 2014 , 57, 33-43	10.3	242
4	Generalized structural description of calcium-sodium aluminosilicate hydrate gels: the cross-linked substituted tobermorite model. <i>Langmuir</i> , 2013 , 29, 5294-306	4	271
3	Nanostructural characterization of geopolymers by advanced beamline techniques. <i>Cement and Concrete Composites</i> , 2013 , 36, 56-64	8.6	28
2	X-ray microtomography shows pore structure and tortuosity in alkali-activated binders. <i>Cement and Concrete Research</i> , 2012 , 42, 855-864	10.3	288
1	The pH of Aqueous NaOH/KOH Solutions: A Critical and Non-trivial Parameter for Electrocatalysis. <i>ACS Energy Letters</i> , 3567-3571	20.1	14