

# Rupert J Myers

## 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.

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	Cemdata18: A chemical thermodynamic database for hydrated Portland cements and alkali-activated materials. <i>Cement and Concrete Research</i> , <b>2019</b> , 115, 472-506	10.3	303
41	X-ray microtomography shows pore structure and tortuosity in alkali-activated binders. <i>Cement and Concrete Research</i> , <b>2012</b> , 42, 855-864	10.3	288
40	Generalized structural description of calcium-sodium aluminosilicate hydrate gels: the cross-linked substituted tobermorite model. <i>Langmuir</i> , <b>2013</b> , 29, 5294-306	4	271
39	MgO content of slag controls phase evolution and structural changes induced by accelerated carbonation in alkali-activated binders. <i>Cement and Concrete Research</i> , <b>2014</b> , 57, 33-43	10.3	242
38	Effect of temperature and aluminium on calcium (alumino)silicate hydrate chemistry under equilibrium conditions. <i>Cement and Concrete Research</i> , <b>2015</b> , 68, 83-93	10.3	165
37	A thermodynamic model for C-(N-)A-S-H gel: CNASH_ss. Derivation and validation. <i>Cement and Concrete Research</i> , <b>2014</b> , 66, 27-47	10.3	122
36	Role of carbonates in the chemical evolution of sodium carbonate-activated slag binders. <i>Materials and Structures/Materiaux Et Constructions</i> , <b>2015</b> , 48, 517-529	3.4	121
35	The Role of Al in Cross-Linking of Alkali-Activated Slag Cements. <i>Journal of the American Ceramic Society</i> , <b>2015</b> , 98, 996-1004	3.8	119
34	Thermodynamic modelling of alkali-activated slag cements. <i>Applied Geochemistry</i> , <b>2015</b> , 61, 233-247	3.5	111
33	Phase diagrams for alkali-activated slag binders. <i>Cement and Concrete Research</i> , <b>2017</b> , 95, 30-38	10.3	96
32	Densification of the interlayer spacing governs the nanomechanical properties of calcium-silicate-hydrate. <i>Scientific Reports</i> , <b>2017</b> , 7, 10986	4.9	77
31	Aluminum-induced dreierketten chain cross-links increase the mechanical properties of nanocrystalline calcium aluminosilicate hydrate. <i>Scientific Reports</i> , <b>2017</b> , 7, 44032	4.9	75
30	Role of Adsorption Phenomena in Cubic Tricalcium Aluminate Dissolution. <i>Langmuir</i> , <b>2017</b> , 33, 45-55	4	63
29	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> , <b>2019</b> , 115, 367-378	10.3	59
28	Effects of CO <sub>2</sub> and temperature on the structure and chemistry of C(A),S,H investigated by Raman spectroscopy. <i>RSC Advances</i> , <b>2017</b> , 7, 48925-48933	3.7	46
27	Synchrotron X-ray nanotomographic and spectromicroscopic study of the tricalcium aluminate hydration in the presence of gypsum. <i>Cement and Concrete Research</i> , <b>2018</b> , 111, 130-137	10.3	45
26	Environmental Impacts of Alternative Cement Binders. <i>Environmental Science &amp; Technology</i> , <b>2020</b> , 54, 677-686	10.3	39

25	Implications of Emerging Vehicle Technologies on Rare Earth Supply and Demand in the United States. <i>Resources</i> , <b>2018</b> , 7, 9	3.7	38
24	Composition-solubility-structure relationships in calcium (alkali) aluminosilicate hydrate (C-(N,K-)A-S-H). <i>Dalton Transactions</i> , <b>2015</b> , 44, 13530-44	4.3	37
23	Solution chemistry of cubic and orthorhombic tricalcium aluminate hydration. <i>Cement and Concrete Research</i> , <b>2017</b> , 100, 176-185	10.3	34
22	The sponge effect and carbon emission mitigation potentials of the global cement cycle. <i>Nature Communications</i> , <b>2020</b> , 11, 3777	17.4	31
21	Nanostructural characterization of geopolymers by advanced beamline techniques. <i>Cement and Concrete Composites</i> , <b>2013</b> , 36, 56-64	8.6	28
20	Nullius in Verba <sup>1</sup> : Advancing Data Transparency in Industrial Ecology. <i>Journal of Industrial Ecology</i> , <b>2018</b> , 22, 6-17	7.2	26
19	Machine Learning for Sustainable Structures: A Call for Data. <i>Structures</i> , <b>2019</b> , 19, 1-4	3.4	22
18	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> , <b>2020</b> , 12, 1725	3.6	19
17	Methodology for pH measurement in high alkali cementitious systems. <i>Cement and Concrete Research</i> , <b>2020</b> , 135, 106122	10.3	14
16	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
15	Ca L <sub>2,3</sub> -edge near edge X-ray absorption fine structure of tricalcium aluminate, gypsum, and calcium (sulfo)aluminate hydrates. <i>American Mineralogist</i> , <b>2017</b> , 102, 900-908	2.9	13
14	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> , <b>2020</b> , 111, 103630	8.6	13
13	YSTAFDB, a unified database of material stocks and flows for sustainability science. <i>Scientific Data</i> , <b>2019</b> , 6, 84	8.2	12
12	Unified Materials Information System (UMIS): An Integrated Material Stocks and Flows Data Structure. <i>Journal of Industrial Ecology</i> , <b>2019</b> , 23, 222-240	7.2	11
11	A research agenda on systems approaches to infrastructure. <i>Civil Engineering and Environmental Systems</i> , <b>2020</b> , 37, 214-233	2.1	10
10	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> , <b>2021</b> , 25, 359-376	7.2	10
9	Effect of Gypsum on the Early Hydration of Cubic and Na-Doped Orthorhombic Tricalcium Aluminate. <i>Materials</i> , <b>2018</b> , 11,	3.5	9
8	Achieving net zero greenhouse gas emissions in the cement industry via value chain mitigation strategies. <i>One Earth</i> , <b>2021</b> , 4, 1398-1411	8.1	9

7	A Roadmap for Production of Cement and Concrete with Low-CO2 Emissions. <i>Waste and Biomass Valorization</i> , <b>2021</b> , 12, 4745-4775	3.2	6
6	Log Mean Divisia Index Decomposition Analysis of the Demand for Building Materials: Application to Concrete, Dwellings, and the U.K. <i>Environmental Science &amp; Technology</i> , <b>2021</b> , 55, 2767-2778	10.3	4
5	A Database for the Extraction, Trade, and Use of Sand and Gravel. <i>Resources</i> , <b>2022</b> , 11, 38	3.7	1
4	Permeability is the Critical Factor Governing the Life Cycle Environmental Performance of Drinking Water Treatment Using Living Filtration Membranes. <i>Environmental Science &amp; Technology</i> , <b>2020</b> , 54, 7651-7658	10.3	0
3	Ramifications of Indian vehicle scrapping policy across the mobility sector. <i>Resources, Conservation and Recycling</i> , <b>2021</b> , 174, 105845	11.9	0
2	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> , <b>2022</b> , 11, 50	3.7	0
1	Reply to a discussion of a research agenda on systems approaches to infrastructure by david elms. <i>Civil Engineering and Environmental Systems</i> , <b>2021</b> , 38, 295-297	2.1	