

# Ian G Richardson

## List of Publications by Citations

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41  
papers

5,311  
citations

29  
h-index

43  
g-index

43  
ext. papers

5,990  
ext. citations

6.6  
avg, IF

6.34  
L-index

#	Paper	IF	Citations
41	The calcium silicate hydrates. <i>Cement and Concrete Research</i> , <b>2008</b> , 38, 137-158	10.3	682
40	Tobermorite/jennite- and tobermorite/calcium hydroxide-based models for the structure of C-S-H: applicability to hardened pastes of tricalcium silicate, dicalcium silicate, Portland cement, and blends of Portland cement with blast-furnace slag, metakaolin, or silica fume. <i>Cement and Concrete Research</i> , <b>2004</b> , 34, 1733-1777	10.3	659
39	The nature of C-S-H in hardened cements. <i>Cement and Concrete Research</i> , <b>1999</b> , 29, 1131-1147	10.3	640
38	The characterization of hardened alkali-activated blast-furnace slag pastes and the nature of the calcium silicate hydrate (C-S-H) phase. <i>Cement and Concrete Research</i> , <b>1994</b> , 24, 813-829	10.3	282
37	The nature of the hydration products in hardened cement pastes. <i>Cement and Concrete Composites</i> , <b>2000</b> , 22, 97-113	8.6	222
36	Location of Aluminum in Substituted Calcium Silicate Hydrate (C-S-H) Gels as Determined by $^{29}\text{Si}$ and $^{27}\text{Al}$ NMR and EELS. <i>Journal of the American Ceramic Society</i> , <b>1993</b> , 76, 2285-2288	3.8	221
35	Microstructure and microanalysis of hardened cement pastes involving ground granulated blast-furnace slag. <i>Journal of Materials Science</i> , <b>1992</b> , 27, 6204-6212	4.3	206
34	Composition and microstructure of 20-year-old ordinary Portland cement-ground granulated blast-furnace slag blends containing 0 to 100% slag. <i>Cement and Concrete Research</i> , <b>2010</b> , 40, 971-983	10.3	200
33	Model structures for C-(A)-S-H(I). <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , <b>2014</b> , 70, 903-23	1.8	195
32	The incorporation of minor and trace elements into calcium silicate hydrate (C-S-H) gel in hardened cement pastes. <i>Cement and Concrete Research</i> , <b>1993</b> , 23, 131-138	10.3	186
31	Models for the composition and structure of calcium silicate hydrate (C-S-H) gel in hardened tricalcium silicate pastes. <i>Cement and Concrete Research</i> , <b>1992</b> , 22, 1001-1010	10.3	166
30	Microstructure and microanalysis of hardened ordinary Portland cement pastes. <i>Journal of Materials Science</i> , <b>1993</b> , 28, 265-277	4.3	165
29	Progressive Changes in the Structure of Hardened C3S Cement Pastes due to Carbonation. <i>Journal of the American Ceramic Society</i> , <b>1991</b> , 74, 2891-2896	3.8	146
28	Composition and structure of C-S-H in white Portland cement-20% metakaolin pastes hydrated at 25 °C. <i>Cement and Concrete Research</i> , <b>2007</b> , 37, 109-117	10.3	133
27	The structure of the calcium silicate hydrate phases present in hardened pastes of white Portland cement/blast-furnace slag blends. <i>Journal of Materials Science</i> , <b>1997</b> , 32, 4793-4802	4.3	127
26	Characterisation of cement hydrate phases by TEM, NMR and Raman spectroscopy. <i>Advances in Cement Research</i> , <b>2010</b> , 22, 233-248	1.8	120
25	Thermal stability of C-S-H phases and applicability of Richardson and Groves' and Richardson C-(A)-S-H(I) models to synthetic C-S-H. <i>Cement and Concrete Research</i> , <b>2017</b> , 93, 45-56	10.3	107

24	Quantitative analysis of the microstructure of interfaces in steel reinforced concrete. <i>Cement and Concrete Research</i> , <b>2007</b> , 37, 1613-1623	10.3	99
23	In situ solid-state NMR studies of Ca <sub>3</sub> SiO <sub>5</sub> : hydration at room temperature and at elevated temperatures using <sup>29</sup> Si enrichment. <i>Journal of Materials Science</i> , <b>1994</b> , 29, 3926-3940	4.3	80
22	Composition, morphology and nanostructure of C <sub>3</sub> S <sub>H</sub> in 70% white Portland cement/30% fly ash blends hydrated at 55 °C. <i>Cement and Concrete Research</i> , <b>2010</b> , 40, 1350-1359	10.3	79
21	Composition, silicate anion structure and morphology of calcium silicate hydrates (C-S-H) synthesised by silica-lime reaction and by controlled hydration of tricalcium silicate (C <sub>3</sub> S). <i>Advances in Applied Ceramics</i> , <b>2015</b> , 114, 362-371	2.3	66
20	The importance of proper crystal-chemical and geometrical reasoning demonstrated using layered single and double hydroxides. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , <b>2013</b> , 69, 150-62	1.8	58
19	Application of Selective <sup>29</sup> Si Isotopic Enrichment to Studies of the Structure of Calcium Silicate Hydrate (C-S-H) Gels. <i>Journal of the American Ceramic Society</i> , <b>1994</b> , 77, 593-596	3.8	56
18	A Combined <sup>29</sup> Si MAS NMR and Selective Dissolution Technique for the Quantitative Evaluation of Hydrated Blast Furnace Slag Cement Blends. <i>Journal of the American Ceramic Society</i> , <b>2007</b> , 90, 598-602	3.8	49
17	Hydration of water- and alkali-activated white Portland cement pastes and blends with low-calcium pulverized fuel ash. <i>Cement and Concrete Research</i> , <b>2016</b> , 83, 1-18	10.3	42
16	Composition, morphology and nanostructure of C <sub>3</sub> S <sub>H</sub> in white Portland cement pastes hydrated at 55°C. <i>Cement and Concrete Research</i> , <b>2007</b> , 37, 1571-1582	10.3	42
15	Nature of C <sub>3</sub> S <sub>H</sub> in 20 year old neat ordinary Portland cement and 10% Portland cement/90% ground granulated blast furnace slag pastes. <i>Advances in Applied Ceramics</i> , <b>2007</b> , 106, 294-301	2.3	39
14	The nature of C <sub>2</sub> S <sub>2</sub> H in model slag-cements. <i>Cement and Concrete Composites</i> , <b>2000</b> , 22, 259-266	8.6	38
13	EELS fingerprint of Al-coordination in silicates. <i>Microscopy Microanalysis Microstructures</i> , <b>1994</b> , 5, 173-182		31
12	Composition and structure of an 18-year-old 5M KOH-activated ground granulated blast-furnace slag paste. <i>Construction and Building Materials</i> , <b>2018</b> , 168, 404-411	6.7	27
11	A study of the pozzolanic reaction by solid-state <sup>29</sup> Si nuclear magnetic resonance using selective isotopic enrichment. <i>Journal of Materials Science</i> , <b>1995</b> , 30, 1671-1678	4.3	25
10	morphology and nanostructure C <sub>3</sub> S <sub>H</sub> in white Portland cement/fly ash hydrated at 85°C. <i>Advances in Applied Ceramics</i> , <b>2007</b> , 106, 283-293	2.3	22
9	Clarification of possible ordered distributions of trivalent cations in layered double hydroxides and an explanation for the observed variation in the lower solid-solution limit. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , <b>2013</b> , 69, 629-33	1.8	18
8	Micro- and nano-structural evolutions in white Portland cement/pulverized fuel ash cement pastes due to deionized-water leaching. <i>Cement and Concrete Research</i> , <b>2018</b> , 103, 191-203	10.3	18
7	Parallel electron energy loss spectroscopy study of al-substituted calcium silicate hydrate (C <sub>2</sub> S <sub>2</sub> H) phases present in hardened cement pastes. <i>Solid State Communications</i> , <b>1993</b> , 88, 183-187	1.6	14

6	Zn- and Co-based layered double hydroxides: prediction of the a parameter from the fraction of trivalent cations and vice versa. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , <b>2013</b> , 69, 414-7	1.8	13
5	Microstructure of interface between fibre and matrix in 10-year aged GRC modified by calcium sulfoaluminate cement. <i>Cement and Concrete Research</i> , <b>2015</b> , 76, 20-26	10.3	12
4	Microcrystalline calcium hydroxide in pozzalanic cement pastes. <i>Cement and Concrete Research</i> , <b>1994</b> , 24, 1191-1196	10.3	11
3	A reply to discussions by H.F.W. Taylor of the papers Models for the composition and structure of calcium silicate hydrate (C <sub>2</sub> S <sub>2</sub> H) gel in hardened tricalcium silicate pastes and The incorporation of minor and trace elements into calcium silicate hydrate (C <sub>2</sub> S <sub>2</sub> H) gel in hardened cement pastes <i>Cement and Concrete Research</i> , <b>1993</b> , 23, 999-1000	10.3	10
2	Determining the local coordination of aluminium in cement using electron energy loss near-edge structure. <i>Mikrochimica Acta</i> , <b>1994</b> , 114-115, 221-229	5.8	4
1	Microstructure and phase assemblage of low-clinker cements during the early stages of carbonation. <i>Cement and Concrete Research</i> , <b>2022</b> , 152, 106643	10.3	0