Ian G Richardson

List of Publications by Year in Descending Order

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	Microstructure and phase assemblage of low-clinker cements during the early stages of carbonation. *Cement and Concrete Research*, **2022**, 152, 106643	10.3	0
40	Composition and structure of an 18-year-old 5M KOH-activated ground granulated blast-furnace slag paste. *Construction and Building Materials*, **2018**, 168, 404-411	6.7	27
39	Micro- and nano-structural evolutions in white Portland cement/pulverized fuel ash cement pastes due to deionized-water leaching. *Cement and Concrete Research*, **2018**, 103, 191-203	10.3	18
38	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. *Cement and Concrete Research*, **2017**, 93, 45-56	10.3	107
37	Hydration of water- and alkali-activated white Portland cement pastes and blends with low-calcium pulverized fuel ash. *Cement and Concrete Research*, **2016**, 83, 1-18	10.3	42
36	Microstructure of interface between fibre and matrix in 10-year aged GRC modified by calcium sulfoaluminate cement. *Cement and Concrete Research*, **2015**, 76, 20-26	10.3	12
35	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 (C3S). *Advances in Applied Ceramics*, **2015**, 114, 362-371	2.3	66
34	Model structures for C-(A)-S-H(I). *Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials*, **2014**, 70, 903-23	1.8	195
33	The importance of proper crystal-chemical and geometrical reasoning demonstrated using layered single and double hydroxides. *Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials*, **2013**, 69, 150-62	1.8	58
32	Zn- and Co-based layered double hydroxides: prediction of the a parameter from the fraction of trivalent cations and vice versa. *Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials*, **2013**, 69, 414-7	1.8	13
31	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. *Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials*, **2013**, 69, 629-33	1.8	18
30	Characterisation of cement hydrate phases by TEM, NMR and Raman spectroscopy. *Advances in Cement Research*, **2010**, 22, 233-248	1.8	120
29	Composition and microstructure of 20-year-old ordinary Portland cement–ground granulated blast-furnace slag blends containing 0 to 100% slag. *Cement and Concrete Research*, **2010**, 40, 971-983	10.3	200
28	Composition, morphology and nanostructure of C-S-H in 70% white Portland cement–30% fly ash blends hydrated at 55 °C.. *Cement and Concrete Research*, **2010**, 40, 1350-1359	10.3	79
27	The calcium silicate hydrates. *Cement and Concrete Research*, **2008**, 38, 137-158	10.3	682
26	Composition and structure of C-S-H in white Portland cement–20% metakaolin pastes hydrated at 25 °C. *Cement and Concrete Research*, **2007**, 37, 109-117	10.3	133
25	Quantitative analysis of the microstructure of interfaces in steel reinforced concrete. *Cement and Concrete Research*, **2007**, 37, 1613-1623	10.3	99

24	Composition, morphology and nanostructure of C□S□H in white Portland cement pastes hydrated at 55□C. *Cement and Concrete Research*, **2007**, 37, 1571-1582	10.3	42
23	A Combined 29Si MAS NMR and Selective Dissolution Technique for the Quantitative Evaluation of Hydrated Blast Furnace Slag Cement Blends. *Journal of the American Ceramic Society*, **2007**, 90, 598-602	3.8	49
22	morphology and nanostructure C□S□H in white Portland cement□ly ash hydrated at 85□C. *Advances in Applied Ceramics*, **2007**, 106, 283-293	2.3	22
21	Nature of C□S□H in 20 year old neat ordinary Portland cement and 10% Portland cement□0% ground granulated blast furnace slag pastes. *Advances in Applied Ceramics*, **2007**, 106, 294-301	2.3	39
20	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. *Cement and Concrete Research*, **2004**, 34, 1733-1777	10.3	659
19	The nature of C?S?H in model slag-cements. *Cement and Concrete Composites*, **2000**, 22, 259-266	8.6	38
18	The nature of the hydration products in hardened cement pastes. *Cement and Concrete Composites*, **2000**, 22, 97-113	8.6	222
17	The nature of C-S-H in hardened cements. *Cement and Concrete Research*, **1999**, 29, 1131-1147	10.3	640
16	The structure of the calcium silicate hydrate phases present in hardened pastes of white Portland cement/blast-furnace slag blends. *Journal of Materials Science*, **1997**, 32, 4793-4802	4.3	127
15	A study of the pozzolanic reaction by solid-state 29Si nuclear magnetic resonance using selective isotopic enrichment. *Journal of Materials Science*, **1995**, 30, 1671-1678	4.3	25
14	Determining the local coordination of aluminium in cement using electron energy loss near-edge structure. *Mikrochimica Acta*, **1994**, 114-115, 221-229	5.8	4
13	In situ solid-state NMR studies of Ca3SiO5: hydration at room temperature and at elevated temperatures using 29Si enrichment. *Journal of Materials Science*, **1994**, 29, 3926-3940	4.3	80
12	The characterization of hardened alkali-activated blast-furnace slag pastes and the nature of the calcium silicate hydrate (C-S-H) phase. *Cement and Concrete Research*, **1994**, 24, 813-829	10.3	282
11	Microcrystalline calcium hydroxide in pozzalanic cement pastes. *Cement and Concrete Research*, **1994**, 24, 1191-1196	10.3	11
10	Application of Selective 29Si Isotopic Enrichment to Studies of the Structure of Calcium Silicate Hydrate (C-S-H) Gels. *Journal of the American Ceramic Society*, **1994**, 77, 593-596	3.8	56
9	EELS fingerprint of Al-coordination in silicates. *Microscopy Microanalysis Microstructures*, **1994**, 5, 173-182		31
8	A reply to discussions by H.F.W. Taylor of the papers □Models for the composition and structure of calcium silicate hydrate (C?S?H) gel in hardened tricalcium silicate pastes□and □he incorporation of minor and trace elements into calcium silicate hydrate (C?S?H) gel in hardened cement pastes□ *Cement and Concrete Research*, **1993**, 23, 999-1000	10.3	10
7	The incorporation of minor and trace elements into calcium silicate hydrate (C?S?H) gel in hardened cement pastes. *Cement and Concrete Research*, **1993**, 23, 131-138	10.3	186

6	Parallel electron energy loss spectroscopy study of al-substituted calcium silicate hydrate (C?S?H) phases present in hardened cement pastes. *Solid State Communications*, **1993**, 88, 183-187	1.6	14
5	Microstructure and microanalysis of hardened ordinary Portland cement pastes. *Journal of Materials Science*, **1993**, 28, 265-277	4.3	165
4	Location of Aluminum in Substituted Calcium Silicate Hydrate (C-S-H) Gels as Determined by 29Si and 27Al NMR and EELS. *Journal of the American Ceramic Society*, **1993**, 76, 2285-2288	3.8	221
3	Microstructure and microanalysis of hardened cement pastes involving ground granulated blast-furnace slag. *Journal of Materials Science*, **1992**, 27, 6204-6212	4.3	206
2	Models for the composition and structure of calcium silicate hydrate (C?S?H) gel in hardened tricalcium silicate pastes. *Cement and Concrete Research*, **1992**, 22, 1001-1010	10.3	166
1	Progressive Changes in the Structure of Hardened C3S Cement Pastes due to Carbonation. *Journal of the American Ceramic Society*, **1991**, 74, 2891-2896	3.8	146