

Jannie Sj Van Deventer

List of Publications by Citations

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50
papers

7,941
citations

39
h-index

50
g-index

50
ext. papers

9,302
ext. citations

6.9
avg, IF

6.1
L-index

#	Paper	IF	Citations
50	The role of inorganic polymer technology in the development of 'green concrete' <i>Cement and Concrete Research</i> , 2007 , 37, 1590-1597	10.3	1039
49	Understanding the relationship between geopolymer composition, microstructure and mechanical properties. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2005 , 269, 47-58	5.1	972
48	Modification of phase evolution in alkali-activated blast furnace slag by the incorporation of fly ash. <i>Cement and Concrete Composites</i> , 2014 , 45, 125-135	8.6	517
47	Technical and commercial progress in the adoption of geopolymer cement. <i>Minerals Engineering</i> , 2012 , 29, 89-104	4.9	432
46	Gel nanostructure in alkali-activated binders based on slag and fly ash, and effects of accelerated carbonation. <i>Cement and Concrete Research</i> , 2013 , 53, 127-144	10.3	395
45	Effect of calcium silicate sources on geopolymerisation. <i>Cement and Concrete Research</i> , 2008 , 38, 554-564	10.3	332
44	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
43	Influence of fly ash on the water and chloride permeability of alkali-activated slag mortars and concretes. <i>Construction and Building Materials</i> , 2013 , 48, 1187-1201	6.7	263
42	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
41	Geopolymers for immobilization of Cr(6+), Cd(2+), and Pb(2+). <i>Journal of Hazardous Materials</i> , 2008 , 157, 587-98	12.8	231
40	Pore solution composition and alkali diffusion in inorganic polymer cement. <i>Cement and Concrete Research</i> , 2010 , 40, 1386-1392	10.3	219
39	Thermal evolution of metakaolin geopolymers: Part 1 [Physical evolution. <i>Journal of Non-Crystalline Solids</i> , 2006 , 352, 5541-5555	3.9	203
38	Accelerated carbonation testing of alkali-activated binders significantly underestimates service life: The role of pore solution chemistry. <i>Cement and Concrete Research</i> , 2012 , 42, 1317-1326	10.3	179
37	The role of particle technology in developing sustainable construction materials. <i>Advanced Powder Technology</i> , 2010 , 21, 2-7	4.6	155
36	The mechanism of geopolymer gel formation investigated through seeded nucleation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2008 , 318, 97-105	5.1	146
35	Phase evolution of C-(N)-A-S-H/N-A-S-H gel blends investigated via alkali-activation of synthetic calcium aluminosilicate precursors. <i>Cement and Concrete Research</i> , 2016 , 89, 120-135	10.3	143
34	The effect of silica availability on the mechanism of geopolymerisation. <i>Cement and Concrete Research</i> , 2011 , 41, 210-216	10.3	141

33	The thermal evolution of metakaolin geopolymers: Part 2 [Phase stability and structural development. <i>Journal of Non-Crystalline Solids</i> , 2007 , 353, 2186-2200	3.9	141
32	Geopolymerisation kinetics. 1. In situ energy-dispersive X-ray diffractometry. <i>Chemical Engineering Science</i> , 2007 , 62, 2309-2317	4.4	141
31	Correlating mechanical and thermal properties of sodium silicate-fly ash geopolymers. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2009 , 336, 57-63	5.1	139
30	Carbonate mineral addition to metakaolin-based geopolymers. <i>Cement and Concrete Composites</i> , 2008 , 30, 979-985	8.6	128
29	The effect of alkali metals on the formation of geopolymeric gels from alkali-feldspars. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2003 , 216, 27-44	5.1	125
28	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
27	Spatial distribution of pores in fly ash-based inorganic polymer gels visualised by Wood's metal intrusion. <i>Microporous and Mesoporous Materials</i> , 2009 , 126, 32-39	5.3	117
26	The interrelationship between surface chemistry and rheology in alkali activated slag paste. <i>Construction and Building Materials</i> , 2014 , 65, 583-591	6.7	99
25	Pore characteristics in one-part mix geopolymers foamed by H ₂ O ₂ : The impact of mix design. <i>Materials and Design</i> , 2017 , 130, 381-391	8.1	95
24	Microstructural characterisation of geopolymers synthesised from kaolinite/stilbite mixtures using XRD, MAS-NMR, SEM/EDX, TEM/EDX, and HREM. <i>Cement and Concrete Research</i> , 2002 , 32, 1705-1716	10.3	94
23	Alkali activated slag foams: The effect of the alkali reaction on foam characteristics. <i>Journal of Cleaner Production</i> , 2017 , 147, 330-339	10.3	89
22	Time-resolved and spatially-resolved infrared spectroscopic observation of seeded nucleation controlling geopolymer gel formation. <i>Journal of Colloid and Interface Science</i> , 2011 , 357, 384-92	9.3	77
21	Geopolymerisation kinetics. 3. Effects of Cs and Sr salts. <i>Chemical Engineering Science</i> , 2008 , 63, 4480-4489	4.4	63
20	Dissolution behaviour of source materials for synthesis of geopolymer binders: A kinetic approach. <i>International Journal of Mineral Processing</i> , 2016 , 153, 80-86		58
19	Dilatometry of geopolymers as a means of selecting desirable fly ash sources. <i>Journal of Non-Crystalline Solids</i> , 2012 , 358, 1930-1937	3.9	55
18	Modelling the yield stress of ternary cement-fly ash pastes based on particle size distribution. <i>Powder Technology</i> , 2014 , 266, 203-209	5.2	53
17	Distinctive microstructural features of aged sodium silicate-activated slag concretes. <i>Cement and Concrete Research</i> , 2014 , 65, 41-51	10.3	51
16	The role of sulfide in the immobilization of Cr(VI) in fly ash geopolymers. <i>Cement and Concrete Research</i> , 2008 , 38, 681-688	10.3	49

15	Hard X-ray nanotomography of amorphous aluminosilicate cements. <i>Scripta Materialia</i> , 2011 , 65, 316-319	3.6	44
14	Structural evolution of synthetic alkali-activated CaO-MgO-Na ₂ O-Al ₂ O ₃ -SiO ₂ materials is influenced by Mg content. <i>Cement and Concrete Research</i> , 2017 , 99, 155-171	10.3	43
13	Microstructure and durability of alkali-activated materials as key parameters for standardization. <i>Journal of Sustainable Cement-Based Materials</i> , 2015 , 4, 116-128	3.6	41
12	Reduction of gold(III) chloride to gold(0) on silicate surfaces. <i>Journal of Colloid and Interface Science</i> , 2013 , 389, 252-9	9.3	39
11	Nanostructural characterization of geopolymers by advanced beamline techniques. <i>Cement and Concrete Composites</i> , 2013 , 36, 56-64	8.6	28
10	Effects of grinding on the preg-robbing potential of quartz in an acidic chloride medium. <i>Minerals Engineering</i> , 2013 , 52, 31-37	4.9	27
9	Gold sorption by silicates in acidic and alkaline chloride media. <i>International Journal of Mineral Processing</i> , 2011 , 100, 149-156		27
8	Synthesis of stoichiometrically controlled reactive aluminosilicate and calcium-aluminosilicate powders. <i>Powder Technology</i> , 2016 , 297, 17-33	5.2	27
7	Interaction of sodium silicate with zirconia and its consequences for polysialation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2001 , 182, 143-159	5.1	18
6	Effects of grinding on the preg-robbing behaviour of pyrophyllite. <i>Hydrometallurgy</i> , 2014 , 146, 154-163	4	16
5	Adsorption of gold on albite in acidic chloride media. <i>Hydrometallurgy</i> , 2013 , 134-135, 32-39	4	10
4	The effect of grinding mechanism on the preg-robbing of gold onto quartz. <i>International Journal of Mineral Processing</i> , 2014 , 128, 1-5		9
3	Computational modelling of interactions between gold complexes and silicates. <i>Computational and Theoretical Chemistry</i> , 2017 , 1101, 113-121	2	8
2	Geopolymers and Other Alkali-Activated Materials 2019 , 779-805		8
1	Non-traditional (Geopolymer) cements and concretes for construction of large CCS equipment. <i>Energy Procedia</i> , 2011 , 4, 2058-2065	2.3	6