Xiang-ming Kong

List of Publications by Year
in descending order

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61 papers	2,964 citations	136885 32 h-index	168321 53 g-index
61 all docs	61 docs citations	61 times ranked	1360 citing authors

#	Article	IF	Citations
1	A comparative study of the effects of two alkanolamines on cement hydration. Advances in Cement Research, 2022, 34, 47-56.	0.7	11
2	Correlation between the adsorption behavior of colloidal polymer particles and the yield stress of fresh cement pastes. Cement and Concrete Research, 2022, 152, 106668.	4.6	20
3	Influences of PCE superplasticizers with varied architectures on the formation and morphology of calcium hydroxide crystals. Cement and Concrete Research, 2022, 152, 106670.	4.6	20
4	A further understanding on the strength development of cement pastes in the presence of triisopropanolamine used in CRTS III slab track. Construction and Building Materials, 2022, 315, 125743.	3.2	10
5	Water absorption behavior of hydrophobized concrete using silane emulsion as admixture. Cement and Concrete Research, 2022, 154, 106738.	4.6	36
6	A new insight into the working mechanism of PCE emphasizing the interaction between PCE and Ca2+ in fresh cement paste. Construction and Building Materials, 2021, 275, 122133.	3.2	16
7	Synchronous Monitoring of Cement Hydration and Polymer Film Formation Using ¹H-Time-Domain-NMR with <i>T</i>₂ Time-Weighted <i>T</i>₁ Time Evaluation: A Nondestructive Practicable Benchtop Method. ACS Omega, 2021, 6, 7499-7511.	1.6	2
8	The dispersing performances of polycarboxylate superplasticizer in cement pastes prepared with deionized water and seawater. Materials and Structures/Materiaux Et Constructions, 2021, 54, 1.	1.3	9
9	Properties and reaction mechanism of phosphoric acid activated metakaolin geopolymer at varied curing temperatures. Cement and Concrete Research, 2021, 144, 106425.	4.6	69
10	Rheology of fresh cement pastes containing polymer nanoparticles. Cement and Concrete Research, 2021, 144, 106419.	4.6	26
11	Thermal stability, pore structure and moisture adsorption property of phosphate acid-activated metakaolin geopolymer. Materials Letters, 2021, 301, 130226.	1.3	16
12	Effects of triethanolamine on autogenous shrinkage and drying shrinkage of cement mortar. Construction and Building Materials, 2021, 304, 124620.	3.2	8
13	Mechanism of accelerated self-healing behavior of cement mortars incorporating triethanolamine: Carbonation of portlandite. Construction and Building Materials, 2021, 308, 125050.	3.2	10
14	Directed self-assembly structure of a diblock copolymer with homopolymer-grafted particles. Molecular Simulation, 2020, 46, 661-668.	0.9	0
15	Kinetic study on elemental mercury release from fly ashes and hydrated fly ash cement pastes. Chemosphere, 2020, 241, 125028.	4.2	2
16	Influences of triethanolamine on the performance of cement pastes used in slab track. Construction and Building Materials, 2020, 238, 117670.	3.2	31
17	Impacts of two alkanolamines on crystallization and morphology of calcium hydroxide. Cement and Concrete Research, 2020, 138, 106250.	4.6	41
18	Towards a further understanding of cement hydration in the presence of triethanolamine. Cement and Concrete Research, 2020, 132, 106041.	4.6	83

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19	The acceleration mechanism of nano-C-S-H particles on OPC hydration. Construction and Building Materials, 2020, 249, 118734.	3.2	85
20	Retardation effect of PCE superplasticizers with different architectures and their impacts on early strength of cement mortar. Cement and Concrete Composites, 2019, 104, 103369.	4.6	75
21	Effects of comb-like PCE and linear copolymers on workability and early hydration of a calcium sulfoaluminate belite cement. Cement and Concrete Research, 2019, 123, 105801.	4.6	55
22	Effects of polycarboxylate superplasticizers on fluidity and early hydration in sulfoaluminate cement system. Construction and Building Materials, 2019, 228, 116711.	3.2	30
23	Fluidizing effects of polymers with various anchoring groups in cement pastes and their sensitivity to environmental temperatures. Journal of Applied Polymer Science, 2019, 136, 47494.	1.3	5
24	The effects of nanoâ€Câ€Sâ€H with different polymer stabilizers on early cement hydration. Journal of the American Ceramic Society, 2019, 102, 5103-5116.	1.9	50
25	Pore structure of hardened cement paste containing colloidal polymers with varied glass transition temperature and surface charges. Cement and Concrete Composites, 2019, 95, 154-168.	4.6	26
26	Effects of two oppositely charged colloidal polymers on cement hydration. Cement and Concrete Composites, 2019, 96, 66-76.	4.6	32
27	Comparative study of two PCE superplasticizers with varied charge density in Portland cement and sulfoaluminate cement systems. Cement and Concrete Research, 2019, 115, 43-58.	4.6	95
28	Rheological properties and microstructure of fresh cement pastes with varied dispersion media and superplasticizers. Powder Technology, 2018, 330, 219-227.	2.1	42
29	Mercury release from fly ashes and hydrated fly ash cement pastes. Atmospheric Environment, 2018, 178, 11-18.	1.9	13
30	Working mechanism of postâ€acting polycarboxylate superplasticizers containing acrylate segments. Journal of Applied Polymer Science, 2018, 135, 45753.	1.3	31
31	Effect of highly carboxylated colloidal polymers on cement hydration and interactions with calcium ions. Cement and Concrete Research, 2018, 113, 140-153.	4.6	50
32	Effect of colloidal polymers with different surface properties on the rheological property of fresh cement pastes. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2017, 520, 154-165.	2.3	40
33	Effect of polymer latexes with varied glass transition temperature on cement hydration. Journal of Applied Polymer Science, 2017, 134, 45264.	1.3	11
34	Effects of comb-shaped superplasticizers with different charge characteristics on the microstructure and properties of fresh cement pastes. Construction and Building Materials, 2017, 155, 441-450.	3.2	36
35	Effect of surface modification of colloidal particles in polymer latexes on cement hydration. Construction and Building Materials, 2017, 155, 1147-1157.	3.2	31
36	Rheological behaviors of fresh cement pastes with polycarboxylate superplasticizer. Journal Wuhan University of Technology, Materials Science Edition, 2016, 31, 286-299.	0.4	20

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37	Characterization of the mesostructural organization of cement particles in fresh cement paste. Construction and Building Materials, 2016, 124, 1038-1050.	3.2	21
38	Influences of styrene-acrylate latexes on cement hydration in oil well cement system at different temperatures. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2016, 507, 46-57.	2.3	46
39	Interaction of silylated superplasticizers with cementitious materials. Journal of Applied Polymer Science, 2016, 133, .	1.3	16
40	Oil swellable polymer modified cement paste: Expansion and crack healing upon oil absorption. Construction and Building Materials, 2016, 114, 98-108.	3.2	29
41	Effect of polymer latexes with cleaned serum on the phase development of hydrating cement pastes. Cement and Concrete Research, 2016, 84, 30-40.	4.6	91
42	In-situ measurement of viscoelastic properties of fresh cement paste by a microrheology analyzer. Cement and Concrete Research, 2016, 79, 291-300.	4.6	59
43	Retardation effect of styrene-acrylate copolymer latexes on cement hydration. Cement and Concrete Research, 2015, 75, 23-41.	4.6	181
44	Preparation of amphoteric polycarboxylate superplasticizers and their performances in cementitious system. Journal of Applied Polymer Science, 2015, 132, .	1.3	23
45	Correlations of the dispersing capability of NSF and PCE types of superplasticizer and their impacts on cement hydration with the adsorption in fresh cement pastes. Cement and Concrete Research, 2015, 69, 1-9.	4.6	286
46	Effects of the charge characteristics of polycarboxylate superplasticizers on the adsorption and the retardation in cement pastes. Cement and Concrete Research, 2015, 67, 184-196.	4.6	243
47	The influence of silanes on hydration and strength development of cementitious systems. Cement and Concrete Research, 2015, 67, 168-178.	4.6	111
48	Effect of pre-soaked superabsorbent polymer on shrinkage of high-strength concrete. Materials and Structures/Materiaux Et Constructions, 2015, 48, 2741-2758.	1.3	122
49	Influences of PCE Superplasticizer on the Pore Structure and the Impermeability of Hardened Cementitious Materials. Journal of Advanced Concrete Technology, 2014, 12, 443-455.	0.8	9
50	Influences of temperature on mechanical properties of cement asphalt mortars. Materials and Structures/Materiaux Et Constructions, 2014, 47, 285-292.	1.3	47
51	Mechanical properties of silica aerogels prepared from a mixture of TEOS and organo-alkoxysilanes of type R1SiX3. Journal Wuhan University of Technology, Materials Science Edition, 2014, 29, 201-207.	0.4	3
52	Synthesis of novel polymer nano-particles and their interaction with cement. Construction and Building Materials, 2014, 68, 434-443.	3.2	42
53	Influences of superplasticizer, polymer latexes and asphalt emulsions on the pore structure and impermeability of hardened cementitious materials. Construction and Building Materials, 2014, 53, 392-402.	3.2	64
54	Study on the rheological properties of Portland cement pastes with polycarboxylate superplasticizers. Rheologica Acta, 2013, 52, 707-718.	1.1	80

#	ARTICLE	IF	CITATIONS
55	Polymer-modified mortar with a gradient polymer distribution: Preparation, permeability, and mechanical behaviour. Construction and Building Materials, 2013, 38, 195-203.	3.2	52
56	Influence of triethanolamine on the hydration and the strength development of cementitious systems. Magazine of Concrete Research, 2013, 65, 1101-1109.	0.9	47
57	Study on the rheological properties of fresh cement asphalt paste. Construction and Building Materials, 2012, 27, 534-544.	3.2	101
58	Mechanical properties of polymer-modified silica aerogels dried under ambient pressure. Journal of Non-Crystalline Solids, 2011, 357, 3447-3453.	1.5	42
59	Compressive strength development and microstructure of cement-asphalt mortar. Journal Wuhan University of Technology, Materials Science Edition, 2011, 26, 998-1003.	0.4	32
60	Study on the compatibility of cement-superplasticizer system based on the amount of free solution. Science China Technological Sciences, 2011, 54, 183-189.	2.0	36
61	Study on the hardening mechanism of cement asphalt binder. Science China Technological Sciences, 2010, 53, 1406-1412.	2.0	44