

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	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. <i>Cement and Concrete Research</i> , 2015, 69, 1-9.	4.6	286
2	Effects of the charge characteristics of polycarboxylate superplasticizers on the adsorption and the retardation in cement pastes. <i>Cement and Concrete Research</i> , 2015, 67, 184-196.	4.6	243
3	Retardation effect of styrene-acrylate copolymer latexes on cement hydration. <i>Cement and Concrete Research</i> , 2015, 75, 23-41.	4.6	181
4	Effect of pre-soaked superabsorbent polymer on shrinkage of high-strength concrete. <i>Materials and Structures/Materiaux Et Constructions</i> , 2015, 48, 2741-2758.	1.3	122
5	The influence of silanes on hydration and strength development of cementitious systems. <i>Cement and Concrete Research</i> , 2015, 67, 168-178.	4.6	111
6	Study on the rheological properties of fresh cement asphalt paste. <i>Construction and Building Materials</i> , 2012, 27, 534-544.	3.2	101
7	Comparative study of two PCE superplasticizers with varied charge density in Portland cement and sulfoaluminate cement systems. <i>Cement and Concrete Research</i> , 2019, 115, 43-58.	4.6	95
8	Effect of polymer latexes with cleaned serum on the phase development of hydrating cement pastes. <i>Cement and Concrete Research</i> , 2016, 84, 30-40.	4.6	91
9	The acceleration mechanism of nano-C-S-H particles on OPC hydration. <i>Construction and Building Materials</i> , 2020, 249, 118734.	3.2	85
10	Towards a further understanding of cement hydration in the presence of triethanolamine. <i>Cement and Concrete Research</i> , 2020, 132, 106041.	4.6	83
11	Study on the rheological properties of Portland cement pastes with polycarboxylate superplasticizers. <i>Rheologica Acta</i> , 2013, 52, 707-718.	1.1	80
12	Retardation effect of PCE superplasticizers with different architectures and their impacts on early strength of cement mortar. <i>Cement and Concrete Composites</i> , 2019, 104, 103369.	4.6	75
13	Properties and reaction mechanism of phosphoric acid activated metakaolin geopolymer at varied curing temperatures. <i>Cement and Concrete Research</i> , 2021, 144, 106425.	4.6	69
14	Influences of superplasticizer, polymer latexes and asphalt emulsions on the pore structure and impermeability of hardened cementitious materials. <i>Construction and Building Materials</i> , 2014, 53, 392-402.	3.2	64
15	In-situ measurement of viscoelastic properties of fresh cement paste by a microrheology analyzer. <i>Cement and Concrete Research</i> , 2016, 79, 291-300.	4.6	59
16	Effects of comb-like PCE and linear copolymers on workability and early hydration of a calcium sulfoaluminate belite cement. <i>Cement and Concrete Research</i> , 2019, 123, 105801.	4.6	55
17	Polymer-modified mortar with a gradient polymer distribution: Preparation, permeability, and mechanical behaviour. <i>Construction and Building Materials</i> , 2013, 38, 195-203.	3.2	52
18	Effect of highly carboxylated colloidal polymers on cement hydration and interactions with calcium ions. <i>Cement and Concrete Research</i> , 2018, 113, 140-153.	4.6	50

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19	The effects of nano- $\text{CaSO}_4 \cdot \text{H}_2\text{O}$ with different polymer stabilizers on early cement hydration. <i>Journal of the American Ceramic Society</i> , 2019, 102, 5103-5116.	1.9	50
20	Influence of triethanolamine on the hydration and the strength development of cementitious systems. <i>Magazine of Concrete Research</i> , 2013, 65, 1101-1109.	0.9	47
21	Influences of temperature on mechanical properties of cement asphalt mortars. <i>Materials and Structures/Materiaux Et Constructions</i> , 2014, 47, 285-292.	1.3	47
22	Influences of styrene-acrylate latexes on cement hydration in oil well cement system at different temperatures. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016, 507, 46-57.	2.3	46
23	Study on the hardening mechanism of cement asphalt binder. <i>Science China Technological Sciences</i> , 2010, 53, 1406-1412.	2.0	44
24	Mechanical properties of polymer-modified silica aerogels dried under ambient pressure. <i>Journal of Non-Crystalline Solids</i> , 2011, 357, 3447-3453.	1.5	42
25	Synthesis of novel polymer nano-particles and their interaction with cement. <i>Construction and Building Materials</i> , 2014, 68, 434-443.	3.2	42
26	Rheological properties and microstructure of fresh cement pastes with varied dispersion media and superplasticizers. <i>Powder Technology</i> , 2018, 330, 219-227.	2.1	42
27	Impacts of two alkanolamines on crystallization and morphology of calcium hydroxide. <i>Cement and Concrete Research</i> , 2020, 138, 106250.	4.6	41
28	Effect of colloidal polymers with different surface properties on the rheological property of fresh cement pastes. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017, 520, 154-165.	2.3	40
29	Study on the compatibility of cement-superplasticizer system based on the amount of free solution. <i>Science China Technological Sciences</i> , 2011, 54, 183-189.	2.0	36
30	Effects of comb-shaped superplasticizers with different charge characteristics on the microstructure and properties of fresh cement pastes. <i>Construction and Building Materials</i> , 2017, 155, 441-450.	3.2	36
31	Water absorption behavior of hydrophobized concrete using silane emulsion as admixture. <i>Cement and Concrete Research</i> , 2022, 154, 106738.	4.6	36
32	Compressive strength development and microstructure of cement-asphalt mortar. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2011, 26, 998-1003.	0.4	32
33	Effects of two oppositely charged colloidal polymers on cement hydration. <i>Cement and Concrete Composites</i> , 2019, 96, 66-76.	4.6	32
34	Effect of surface modification of colloidal particles in polymer latexes on cement hydration. <i>Construction and Building Materials</i> , 2017, 155, 1147-1157.	3.2	31
35	Working mechanism of post-curing polycarboxylate superplasticizers containing acrylate segments. <i>Journal of Applied Polymer Science</i> , 2018, 135, 45753.	1.3	31
36	Influences of triethanolamine on the performance of cement pastes used in slab track. <i>Construction and Building Materials</i> , 2020, 238, 117670.	3.2	31

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37	Effects of polycarboxylate superplasticizers on fluidity and early hydration in sulfoaluminate cement system. <i>Construction and Building Materials</i> , 2019, 228, 116711.	3.2	30
38	Oil swellable polymer modified cement paste: Expansion and crack healing upon oil absorption. <i>Construction and Building Materials</i> , 2016, 114, 98-108.	3.2	29
39	Pore structure of hardened cement paste containing colloidal polymers with varied glass transition temperature and surface charges. <i>Cement and Concrete Composites</i> , 2019, 95, 154-168.	4.6	26
40	Rheology of fresh cement pastes containing polymer nanoparticles. <i>Cement and Concrete Research</i> , 2021, 144, 106419.	4.6	26
41	Preparation of amphoteric polycarboxylate superplasticizers and their performances in cementitious system. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	1.3	23
42	Characterization of the mesostructural organization of cement particles in fresh cement paste. <i>Construction and Building Materials</i> , 2016, 124, 1038-1050.	3.2	21
43	Rheological behaviors of fresh cement pastes with polycarboxylate superplasticizer. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2016, 31, 286-299.	0.4	20
44	Correlation between the adsorption behavior of colloidal polymer particles and the yield stress of fresh cement pastes. <i>Cement and Concrete Research</i> , 2022, 152, 106668.	4.6	20
45	Influences of PCE superplasticizers with varied architectures on the formation and morphology of calcium hydroxide crystals. <i>Cement and Concrete Research</i> , 2022, 152, 106670.	4.6	20
46	Interaction of silylated superplasticizers with cementitious materials. <i>Journal of Applied Polymer Science</i> , 2016, 133, .	1.3	16
47	A new insight into the working mechanism of PCE emphasizing the interaction between PCE and Ca ²⁺ in fresh cement paste. <i>Construction and Building Materials</i> , 2021, 275, 122133.	3.2	16
48	Thermal stability, pore structure and moisture adsorption property of phosphate acid-activated metakaolin geopolymer. <i>Materials Letters</i> , 2021, 301, 130226.	1.3	16
49	Mercury release from fly ashes and hydrated fly ash cement pastes. <i>Atmospheric Environment</i> , 2018, 178, 11-18.	1.9	13
50	Effect of polymer latexes with varied glass transition temperature on cement hydration. <i>Journal of Applied Polymer Science</i> , 2017, 134, 45264.	1.3	11
51	A comparative study of the effects of two alkanolamines on cement hydration. <i>Advances in Cement Research</i> , 2022, 34, 47-56.	0.7	11
52	Mechanism of accelerated self-healing behavior of cement mortars incorporating triethanolamine: Carbonation of portlandite. <i>Construction and Building Materials</i> , 2021, 308, 125050.	3.2	10
53	A further understanding on the strength development of cement pastes in the presence of triisopropanolamine used in CRTS III slab track. <i>Construction and Building Materials</i> , 2022, 315, 125743.	3.2	10
54	Influences of PCE Superplasticizer on the Pore Structure and the Impermeability of Hardened Cementitious Materials. <i>Journal of Advanced Concrete Technology</i> , 2014, 12, 443-455.	0.8	9

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55	The dispersing performances of polycarboxylate superplasticizer in cement pastes prepared with deionized water and seawater. <i>Materials and Structures/Materiaux Et Constructions</i> , 2021, 54, 1.	1.3	9
56	Effects of triethanolamine on autogenous shrinkage and drying shrinkage of cement mortar. <i>Construction and Building Materials</i> , 2021, 304, 124620.	3.2	8
57	Fluidizing effects of polymers with various anchoring groups in cement pastes and their sensitivity to environmental temperatures. <i>Journal of Applied Polymer Science</i> , 2019, 136, 47494.	1.3	5
58	Mechanical properties of silica aerogels prepared from a mixture of TEOS and organo-alkoxysilanes of type R ₁ SiX ₃ . <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2014, 29, 201-207.	0.4	3
59	Kinetic study on elemental mercury release from fly ashes and hydrated fly ash cement pastes. <i>Chemosphere</i> , 2020, 241, 125028.	4.2	2
60	Synchronous Monitoring of Cement Hydration and Polymer Film Formation Using ¹ H-Time-Domain-NMR with ² T ₂ -Time-Weighted ¹ T ₁ -Time Evaluation: A Nondestructive Practicable Benchtop Method. <i>ACS Omega</i> , 2021, 6, 7499-7511.	1.6	2
61	Directed self-assembly structure of a diblock copolymer with homopolymer-grafted particles. <i>Molecular Simulation</i> , 2020, 46, 661-668.	0.9	0