

A review of cementâ€™superplasticizer interactions and

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Cementitious Materialsâ€™ Nine Millennia and A New Century: Past, Present, and Future. Journal of Materials in Civil Engineering, 2002, 14, 2-22.	1.3	63
2	Effect of Some Acrylateâ€™ Poly(Ethylene Glycol) Copolymers as Superplasticizers on the Mechanical and Surface Properties of Portland Cement Pastes. Adsorption Science and Technology, 2005, 23, 245-254.	1.5	25
3	Polycarboxylate superplasticiser admixtures: effect on hydration, microstructure and rheological behaviour in cement pastes. Advances in Cement Research, 2005, 17, 77-89.	0.7	214
4	Effects of a strong polyelectrolyte on the rheological properties of concentrated cementitious suspensions. Cement and Concrete Research, 2006, 36, 851-857.	4.6	31
5	Electrosteric stabilization of concentrated cement suspensions imparted by a strong anionic polyelectrolyte and a non-ionic polymer. Cement and Concrete Research, 2006, 36, 842-850.	4.6	31
6	Novel organo-mineral phases obtained by intercalation of maleic anhydrideâ€™ allyl ether copolymers into layered calcium aluminum hydrates. Inorganica Chimica Acta, 2006, 359, 4901-4908.	1.2	40
7	Adsorption behavior and effectiveness of poly(N,N-dimethylacrylamide-co-Ca) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 507 Td (2-acrylamido acetone-formaldehyde-sulfite dispersant. Journal of Applied Polymer Science, 2006, 102, 4341-4347.	1.3	71
8	Polymeric admixtures effects on calcium carbonate crystallization: relevance to cement industries and biomineralization. CrystEngComm, 2007, 9, 1162.	1.3	26
9	Effect of different anchor groups on adsorption behavior and effectiveness of poly(N,N-dimethylacrylamide-co-Ca 2-acrylamido-2-methylpropanesulfonate) as cement fluid loss additive in presence of acetoneâ€™ formaldehydeâ€™ sulfite dispersant. Journal of Applied Polymer Science, 2007, 106, 3889-3894.	1.3	68
10	Impact of zeta potential of early cement hydration phases on superplasticizer adsorption. Cement and Concrete Research, 2007, 37, 537-542.	4.6	466
11	Effects of the molecular architecture of comb-shaped superplasticizers on their performance in cementitious systems. Cement and Concrete Composites, 2007, 29, 251-262.	4.6	409
12	Adsorption of polyelectrolytes and its influence on the rheology, zeta potential, and microstructure of various cement and hydrate phases. Journal of Colloid and Interface Science, 2008, 323, 301-312.	5.0	314
13	Synthesis and performance of methacrylic ester based polycarboxylate superplasticizers possessing hydroxy terminated poly(ethylene glycol) side chains. Cement and Concrete Research, 2008, 38, 1210-1216.	4.6	212
14	Effect of PCs superplasticizers on the rheological properties and hydration process of slag-blended cement pastes. Journal of Materials Science, 2009, 44, 2714-2723.	1.7	68
15	Synthesis of copolymers of methoxy polyethylene glycol acrylate and 2-acrylamido-2-methyl-1-propanesulfonic acid: Its characterization and application as superplasticizer in concrete. Cement and Concrete Research, 2009, 39, 629-635.	4.6	38
16	Adsorption of superplasticizer admixtures on alkali-activated slag pastes. Cement and Concrete Research, 2009, 39, 670-677.	4.6	161
17	Composition and reaction mechanism of cementâ€™ asphalt mastic. Construction and Building Materials, 2009, 23, 2580-2585.	3.2	56
18	Effect of activation conditions of a kaolinite based waste on rheology of blended cement pastes. Cement and Concrete Research, 2009, 39, 843-848.	4.6	27

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19	Tracking Traces of Transition Metals Present in Concrete Mixtures by Inductively-Coupled Plasma Mass Spectrometry Studies. <i>European Journal of Mass Spectrometry</i> , 2010, 16, 679-692.	0.5	3
20	Preparation and properties of hybrid cement-polymer coatings used for the improvement of fiber-matrix adhesion in textile reinforced concrete. <i>Journal of Applied Polymer Science</i> , 2010, 116, 3303-3309.	1.3	8
21	ZrO ₂ nanoparticles' effects on split tensile strength of self compacting concrete. <i>Materials Research</i> , 2010, 13, 485-495.	0.6	17
22	Rheological Properties of Very High-Strength Portland Cement Pastes: Influence of Very Effective Superplasticizers. <i>International Journal of Chemical Engineering</i> , 2010, 2010, 1-7.	1.4	12
23	Influence of classical and modern superplasticisers on the chemical and rheological behaviour of oil well cement: a comparative study. <i>Advances in Cement Research</i> , 2011, 23, 175-184.	0.7	6
24	Effects of CuO Nanoparticles on Microstructure, Physical, Mechanical and Thermal Properties of Self-Compacting Cementitious Composites. <i>Journal of Materials Science and Technology</i> , 2011, 27, 81-92.	5.6	46
25	Physical and mechanical behavior of high strength self-compacting concrete containing ZrO ₂ nanoparticles. <i>International Journal of Materials Research</i> , 2011, 102, 560-571.	0.1	6
26	Impact of admixtures on the hydration kinetics of Portland cement. <i>Cement and Concrete Research</i> , 2011, 41, 1289-1309.	4.6	486
27	Effect of compounding of sodium tripolyphosphate and super plasticizers on the hydration of α -calcium sulfate hemihydrate. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2011, 26, 737-744.	0.4	17
28	Effect of fly ash on the kinetics of Portland cement hydration at different curing temperatures. <i>Cement and Concrete Research</i> , 2011, 41, 579-589.	4.6	160
30	Influence of Compounding Malic Acid with Plasticizers on Hydration Heat of α -Calcium Sulphate Hemihydrate. <i>Advanced Materials Research</i> , 0, 306-307, 1088-1095.	0.3	0
31	Monitoring the effect of admixtures on early-age concrete behaviour by ultrasonic, calorimetric, strength and rheometer measurements. <i>Magazine of Concrete Research</i> , 2011, 63, 707-721.	0.9	14
33	Compatibility between superplasticizer admixtures and cements with mineral additions. <i>Construction and Building Materials</i> , 2012, 31, 300-309.	3.2	177
34	Extrudable reactive powder concretes: hydration, shrinkage and transfer properties. <i>European Journal of Environmental and Civil Engineering</i> , 2012, 16, s99-s114.	1.0	13
35	Preparation and property of 2-acrylamide-2-methylpropanesulfonic acid/acrylamide/sodium styrene sulfonate as fluid loss agent for oil well cement. <i>Polymer Engineering and Science</i> , 2012, 52, 431-437.	1.5	31
36	Synthesis, effectiveness, and working mechanism of humic acid-sodium 2-acrylamido-2-methylpropane sulfonate-co-N,N-dimethyl acrylamide-co-acrylic acid graft copolymer as high-temperature fluid loss additive in oil well cementing. <i>Journal of Applied Polymer Science</i> , 2012, 126, 1449-1460.	1.3	31
37	Change in reaction kinetics of a Portland cement caused by a superplasticizer - Calculation of heat flow curves from XRD data. <i>Cement and Concrete Research</i> , 2012, 42, 327-332.	4.6	158
38	Minimizing water dosage of superplasticized mortars and concretes for a given consistency. <i>Construction and Building Materials</i> , 2012, 28, 747-758.	3.2	19

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39	A comparative study on cement hydration and microstructure of cement paste incorporating aminosulfonate-phenol-salicylic acid-formaldehyde and aminosulfonate-phenol-formaldehyde polymer. <i>Journal of Thermal Analysis and Calorimetry</i> , 2013, 112, 1465-1474.	2.0	3
40	Effect of polycarboxylate superplasticizers on large amounts of fly ash cements. <i>Construction and Building Materials</i> , 2013, 48, 628-635.	3.2	35
41	Compatibility between polycarboxylate-based admixtures and blended-cement pastes. <i>Cement and Concrete Composites</i> , 2013, 35, 151-162.	4.6	139
42	Effect of Polycarboxylate-Ether Admixtures on Calcium Aluminate Cement Pastes. Part 2: Hydration Studies. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 17330-17340.	1.8	14
43	Influence of Comb-Polymer Structure on C₃S Phase Hydration. <i>Materials Sciences and Applications</i> , 2013, 04, 35-44.	0.3	1
44	Valorization of Local Mineral Admixtures in Concretes. <i>MATEC Web of Conferences</i> , 2014, 11, 01004.	0.1	1
45	Influence of the pH Value on the Water-Reducing Performance of Polycarboxylate-Based Superplasticizers at Room Temperature. <i>Advanced Materials Research</i> , 0, 989-994, 97-101.	0.3	1
46	Formation of organo-mineral phases at early addition of superplasticizers: The role of alkali sulfates and C3A content. <i>Cement and Concrete Research</i> , 2014, 59, 112-117.	4.6	35
47	Compatibility between a polycarboxylate superplasticizer and the belite-rich sulfoaluminate cement: Setting time and the hydration properties. <i>Construction and Building Materials</i> , 2014, 51, 47-54.	3.2	94
48	Synthesis of novel polymer nano-particles and their interaction with cement. <i>Construction and Building Materials</i> , 2014, 68, 434-443.	3.2	42
49	An Overview of Different Chemicals Used in Designing Cement Slurries for Oil and Gas Wells. , 2015, , .		16
50	Retardation effect of styrene-acrylate copolymer latexes on cement hydration. <i>Cement and Concrete Research</i> , 2015, 75, 23-41.	4.6	181
51	Adsorption of PCE and PNS superplasticisers on cubic and orthorhombic C3A. Effect of sulfate. <i>Construction and Building Materials</i> , 2015, 78, 324-332.	3.2	43
52	Calcium complexation and cluster formation as principal modes of action of polymers used as superplasticizer in cement systems. <i>Cement and Concrete Research</i> , 2015, 73, 42-50.	4.6	88
53	Micro-reactors to Study Alite Hydration. <i>Journal of the American Ceramic Society</i> , 2015, 98, 1634-1641.	1.9	18
54	Lipase-catalyzed synthesis of MPEG methyl acrylates in solvent-free system. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2015, 122, 305-313.	1.8	2
55	Use of micro-reactors to obtain new insights into the factors influencing tricalcium silicate dissolution. <i>Cement and Concrete Research</i> , 2015, 78, 208-215.	4.6	65
56	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

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58	Precipitation of anionic emulsifier with ordinary Portland cement. Journal of Colloid and Interface Science, 2016, 479, 98-105.	5.0	27
59	Effect of superplasticiser on workability enhancement of Class F and Class C fly ash-based geopolymers. Construction and Building Materials, 2016, 122, 36-42.	3.2	93
60	Rheological behaviors of fresh cement pastes with polycarboxylate superplasticizer. Journal Wuhan University of Technology, Materials Science Edition, 2016, 31, 286-299.	0.4	20
61	Effect of some chemical admixtures on the physico-chemical and rheological properties of oil well cement pastes. Construction and Building Materials, 2016, 120, 80-88.	3.2	65
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63	Synthesis of amphiphilic polycarboxylate copolymer and its notable dispersion and adsorption characteristics onto cement and clay. Advances in Cement Research, 2016, 28, 344-353.	0.7	18
64	Effect of superplasticisers on the hydration process, products and microstructure of tricalcium aluminate paste in the presence of gypsum. Advances in Cement Research, 2016, 28, 298-309.	0.7	3
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67	Influence of Sequence Structure of Polycarboxylate Superplasticizers on Early Age Properties of Cement Paste. Journal of Materials in Civil Engineering, 2016, 28, .	1.3	12
68	Kinetic Model of Calcium-Silicate Hydrate Nucleation and Growth in the Presence of PCE Superplasticizers. Crystal Growth and Design, 2016, 16, 646-654.	1.4	33
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70	Grafting lignite with sulformethal phenoldehy resin and their performance in controlling rheological and filtration properties of waterâ€“bentonite suspensions at high temperatures. Journal of Petroleum Science and Engineering, 2016, 144, 84-90.	2.1	17
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72	New insights into the hydration of slag in alkaline media using a micro-reactor approach. Cement and Concrete Research, 2016, 79, 209-216.	4.6	33
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79	CONTINUOUS MICROSTRUCTURAL CORRELATION OF SLAG/SUPERPLASTICIZER CEMENT PASTES BY HEAT AND IMPEDANCE METHODS VIA FRACTAL ANALYSIS. <i>Fractals</i> , 2017, 25, 1740003.	1.8	30
80	Evaluation of the influence of a superplasticizer on the hydration of varying composition cements by the electrical resistivity measurement method. <i>Construction and Building Materials</i> , 2017, 144, 25-34.	3.2	25
81	The effect of micelles with random pH-sensitive/hydrophobic structure on the workability, hydration process and microstructure of cement paste. <i>RSC Advances</i> , 2017, 7, 17085-17094.	1.7	5
82	The zeta potential of cement and additions in cementitious suspensions with high solid fraction. <i>Cement and Concrete Research</i> , 2017, 95, 195-204.	4.6	90
83	Effect of leached cement paste samples with different superplasticiser content on germination and initial root growth of white mustard (<i>Sinapis alba</i>) and cress (<i>Lepidium sativum</i>). <i>Water, Air, and Soil Pollution</i> , 2017, 228, 1.	1.1	6
84	Influence of phosphorus from phosphogypsum on the initial hydration of Portland cement in the presence of superplasticizers. <i>Cement and Concrete Composites</i> , 2017, 83, 384-393.	4.6	66
85	Effect of PCE-type superplasticizer on early-age behaviour of ultra-high performance concrete (UHPC). <i>Construction and Building Materials</i> , 2017, 153, 740-750.	3.2	100
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90	Synthesis and characterization of SSS/HAM/AA terpolymer as a fluid loss additive for oil well cement. <i>Journal of Applied Polymer Science</i> , 2018, 135, 46266.	1.3	16
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95	Mechanism of Chemical Admixtures: Adsorption, Hydration and Rheology. Springer Theses, 2018, , 137-177.	0.0	0
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113	The superplasticizer effect on the rheological and mechanical properties of self-compacting concrete. , 2020, , 315-331.		10
114	Effects of mixing sequences of nanosilica on the hydration and hardening properties of cement-based materials. <i>Construction and Building Materials</i> , 2020, 263, 120226.	3.2	25
115	Study of the Air-Entraining Behavior Based on the Interactions between Cement Particles and Selected Cationic, Anionic and Nonionic Surfactants. <i>Materials</i> , 2020, 13, 3514.	1.3	22
116	Effect of the polycarboxylate based water reducing admixture structure on self-compacting concrete properties: Main chain length. <i>Construction and Building Materials</i> , 2020, 255, 119360.	3.2	28
117	Influence of high-charge and low-charge PCE-based superplasticizers on Portland cement pastes containing particle-size designed recycled mineral admixtures. <i>Journal of Building Engineering</i> , 2020, 32, 101515.	1.6	4
118	Influence of Monomer Ratios on Molecular Weight Properties and Dispersing Effectiveness in Polycarboxylate Superplasticizers. <i>Materials</i> , 2020, 13, 1022.	1.3	10
119	Effect of side chain length change of polycarboxylate-ether based high range water reducing admixture on properties of self-compacting concrete. <i>Construction and Building Materials</i> , 2020, 246, 118427.	3.2	35
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125	Effect of main and side chain length change of polycarboxylate-ether-based water-reducing admixtures on the fresh state and mechanical properties of cementitious systems. <i>Structural Concrete</i> , 2021, 22, E607.	1.5	17
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127	Effects of anionic monomer type of water-reducing admixture on fresh properties, compressive strength and water adsorption of self-compacting concrete. <i>Journal of Adhesion Science and Technology</i> , 2021, 35, 1203-1218.	1.4	4
128	Early hydration of CSA cement modified with styrene-butadiene copolymer dispersion. <i>Advances in Cement Research</i> , 2021, 33, 14-27.	0.7	3
129	Rheology, setting and hydration of calcined clay blended cements in interaction with PCE-based superplasticisers. <i>Magazine of Concrete Research</i> , 2021, 73, 785-797.	0.9	12

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130	Synthesis and characterization of SSS/MA/NVCL copolymer as high temperature oil well cement retarder. <i>Journal of Dispersion Science and Technology</i> , 2022, 43, 1405-1415.	1.3	3
131	Mix design of high performance concrete with different mineral additions. <i>World Journal of Engineering</i> , 2021, 18, 767-779.	1.0	23
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137	Preparation of isoprenol ether-based polycarboxylate superplasticizers with exceptional dispersing power in alkali-activated slag: Comparison with ordinary Portland cement. <i>Composites Part B: Engineering</i> , 2021, 223, 109077.	5.9	18
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140	Polycarboxylate superplasticiser admixtures: effect on hydration, microstructure and rheological behaviour in cement pastes. <i>Advances in Cement Research</i> , 2005, 17, 77-89.	0.7	14
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145	Utilizing optical spectroscopy and 2,7-difluorofluorescein to characterize the early stages of cement hydration. <i>Methods and Applications in Fluorescence</i> , 2022, 10, 015001.	1.1	0
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153	Physical and mineralogical properties of calcined common clays as SCM and their impact on flow resistance and demand for superplasticizer. Cement and Concrete Research, 2022, 154, 106743.	4.6	22
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