Johann Plank

List of Publications by Year in Descending Order

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Version: 2024-04-28

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

180
papers

4,044
citations

4,807
ext. papers

4,807
ext. citations

4,807
ext. citations

31
papers
4,9
ext. citations

4.9
avg, IF

6.2
L-index

#	Paper	IF	Citations
180	Interaction between polycarboxylate superplasticizers and non-calcined clays and calcined clays: A review. <i>Cement and Concrete Research</i> , 2022 , 154, 106717	10.3	5
179	Performance of sustainable mortar using calcined clay, fly ash, limestone powder and reinforced with hybrid fibers. <i>Case Studies in Construction Materials</i> , 2022 , 16, e00849	2.7	2
178	CBHPolycondensate nanocomposites as effective seeding materials for Portland composite cements. Cement and Concrete Composites, 2022, 125, 104278	8.6	4
177	40 Dyears of PCE superplasticizers - History, current state-of-the-art and an outlook. <i>Cement and Concrete Research</i> , 2022 , 157, 106826	10.3	4
176	Characterization data of reference industrial polycarboxylate superplasticizer VP 2020/15.2 used for Priority Program DFG SPP 2005 "Opus Fluidum Futurum - Rheology of reactive, multiscale, multiphase construction materials" <i>Data in Brief</i> , 2021 , 39, 107657	1.2	
175	Effectiveness of PCE superplasticizers in calcined clay blended cements. <i>Cement and Concrete Research</i> , 2021 , 141, 106334	10.3	19
174	New insights into the effects of aging on Portland cement hydration and on retarder performance. <i>Construction and Building Materials</i> , 2021 , 274, 122104	6.7	1
173	Interaction of individual meta clays with polycarboxylate (PCE) superplasticizers in cement investigated via dispersion, zeta potential and sorption measurements. <i>Applied Clay Science</i> , 2021 , 207, 106092	5.2	8
172	Impact of sand and filler materials on the hydration behavior of calcium aluminate cement. <i>Journal of the American Ceramic Society</i> , 2021 , 104, 1067-1075	3.8	2
171	Solventless Mechanochemical Synthesis of Phase Pure Syngenite. <i>Chemistry Methods</i> , 2021 , 1, 78-84		1
170	Approaches to achieve fluidity retention in low-carbon calcined clay blended cements. <i>Journal of Cleaner Production</i> , 2021 , 311, 127770	10.3	1
169	Evaluation of phosphated superplasticizers in high-performance Halcium sulfate hemihydrate-based floor screeds. <i>Journal of Building Engineering</i> , 2021 , 41, 102787	5.2	1
168	Mechanochemical syngenite as hydration accelerator for anhydrite-based self-levelling floor screeds. <i>Construction and Building Materials</i> , 2021 , 308, 124982	6.7	O
167	Templating effect of alginate and related biopolymers as hydration accelerators for calcium alumina cement - A mechanistic study. <i>Materials and Design</i> , 2020 , 195, 109054	8.1	4
166	Dispersing performance of different kinds of polycarboxylate (PCE) superplasticizers in cement blended with a calcined clay. <i>Construction and Building Materials</i> , 2020 , 258, 119576	6.7	13
165	Effect of non-ionic auxiliary dispersants on the rheological properties of mortars and concretes of low water-to-cement ratio. <i>Construction and Building Materials</i> , 2020 , 259, 119780	6.7	3
164	Identification of Specific Structural Motifs in Biopolymers That Effectively Accelerate Calcium Alumina Cement. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 11930-11939	3.9	2

163	The effect of alginates on the hydration of calcium aluminate cement. <i>Carbohydrate Polymers</i> , 2020 , 236, 116038	10.3	14
162	Impact of different pH-values of polycarboxylate (PCE) superplasticizer solutions on their dispersing effectiveness. <i>Construction and Building Materials</i> , 2020 , 246, 118440	6.7	5
161	Impact of aging on the hydration of tricalcium aluminate (C3A)/gypsum blends and the effectiveness of retarding admixtures. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 2020 , 75, 739-753	1	1
160	Interaction of Superplasticizers with Cement from the Point of View of Colloid Chemistry. <i>RILEM Bookseries</i> , 2020 , 134-141	0.5	
159	The Role of Chemical Admixtures in the Formulation of Modern Advanced Concrete. <i>RILEM Bookseries</i> , 2020 , 143-157	0.5	3
158	Dispersing effectiveness of a phosphated polycarboxylate in <code>Hand</code> Lalcium sulfate hemihydrate systems. <i>Construction</i> and <i>Building Materials</i> , 2020 , 237, 117731	6.7	7
157	Non-adsorbing small molecules as auxiliary dispersants for polycarboxylate superplasticizers. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020 , 587, 124307	5.1	15
156	Adsorbed layer thickness of polycarboxylate and polyphosphate superplasticizers on polystyrene nanoparticles measured via dynamic light scattering. <i>Journal of Colloid and Interface Science</i> , 2020 , 562, 204-212	9.3	11
155	Impact of the drilling fluid system on the effectiveness of a high pressure jetting assisted rotary drilling system. <i>Heliyon</i> , 2020 , 6, e04179	3.6	2
154	ENaphthalene sulfonate formaldehyde-based nanocomposites as new seeding materials for Portland cement. <i>Construction and Building Materials</i> , 2020 , 264, 120240	6.7	4
153	Preparation and effectiveness of a high-temperature anti-settling agent for well cement slurries. Journal of Natural Gas Science and Engineering, 2020, 81, 103416	4.6	1
152	Blending of mining wastes from the Hammam Zriba mine (Northeast Tunisia) with the primary ingredients of clinkers: an evaluation of effects on gray Portland clinker properties. <i>Arabian Journal of Geosciences</i> , 2020 , 13, 1	1.8	1
151	An improved test protocol for high temperature carrying capacity of drilling fluids exemplified on a sepiolite mud. <i>Journal of Natural Gas Science and Engineering</i> , 2019 , 70, 102964	4.6	6
150	Surface phenomena related to applications regarding optimum dosages of casein superplasticizer in self-leveling underlayment cements. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 2019 , 74, 607-611	1	3
149	C-S-H-PCE Nanofoils: A New Generation of Accelerators for Oil Well Cement 2019,		3
148	Impact of different synthesis methods on the dispersing effectiveness of isoprenol ether-based zwitterionic and anionic polycarboxylate (PCE) superplasticizers. <i>Cement and Concrete Research</i> , 2019 , 119, 113-125	10.3	19
147	Investigation on the optimal chemical structure of methacrylate ester based polycarboxylate superplasticizers to be used as cement grinding aid under laboratory conditions: Effect of anionicity, side chain length and dosage on grinding efficiency, mortar workability and strength	6.7	6
146	Synthesis and Properties of a Polycarboxylate Superplasticizer with a Jellyfish-Like Structure Comprising Hyperbranched Polyglycerols. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 12913-12926	3.9	21

145	Bauchemie. <i>Handbuch Fli Bauingenieure</i> , 2019 , 1-57	O	1
144	Full-scale experimental investigation of the performance of a jet-assisted rotary drilling system in crystalline rock. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2019 , 115, 87-98	6	12
143	A spectroscopic study of the complexation reaction of trivalent lanthanides with a synthetic acrylate based PCE-superplasticizer. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019 , 207, 270-275	4.4	3
142	Adsorption of non-ionic cellulose ethers on cement revisited. <i>Construction and Building Materials</i> , 2019 , 195, 441-449	6.7	6
141	Evaluation of natural rubber latex as film forming additive in cementitious mortar. <i>Construction and Building Materials</i> , 2018 , 169, 93-99	6.7	27
140	Influence of PCE kind and dosage on ettringite crystallization performed under terrestrial and microgravity conditions. <i>Journal of the American Ceramic Society</i> , 2018 , 101, 3575-3584	3.8	13
139	Effectiveness of a calcium silicate hydrate IPolycarboxylate ether (C-S-HBCE) nanocomposite on early strength development of fly ash cement. <i>Construction and Building Materials</i> , 2018 , 169, 20-27	6.7	48
138	A TEM study on the very early crystallization of C-S-H in the presence of polycarboxylate superplasticizers: Transformation from initial C-S-H globules to nanofoils. <i>Cement and Concrete Research</i> , 2018 , 106, 33-39	10.3	31
137	Template-assisted facile synthesis and characterization of hollow calcium silicate hydrate particles for use as reflective materials. <i>Materials Research Bulletin</i> , 2018 , 97, 343-350	5.1	5
136	A thermodynamical and structural study on the complexation of trivalent lanthanides with a polycarboxylate based concrete superplasticizer. <i>Dalton Transactions</i> , 2017 , 46, 4093-4100	4.3	7
135	Growth behavior of water dispersed MgAl layered double hydroxide nanosheets. <i>RSC Advances</i> , 2017 , 7, 14989-14997	3.7	8
134	Effectiveness of Polycarboxylate Dispersants in Enhancing the Fluid Loss Performance of Cellulose Ethers 2017 ,		1
133	Preparation of magnesium oxide and magnesium silicate replicas retaining the hierarchical structure of pine wood. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 2017 , 72, 341-349	1	3
132	Zementchemie in der Schwerelosigkeit. <i>Nachrichten Aus Der Chemie</i> , 2017 , 65, 422-426	0.1	
131	Dispersing performance of superplasticizers admixed to aged cement. <i>Construction and Building Materials</i> , 2017 , 139, 232-240	6.7	13
130	Role of pH on the structure, composition and morphology of C-S-HPCE nanocomposites and their effect on early strength development of Portland cement. <i>Cement and Concrete Research</i> , 2017 , 102, 90-98	10.3	64
129	Temperature- and pH-Dependent Dispersion of Highly Purified Multiwalled Carbon Nanotubes Using Polycarboxylate-Based Surfactants in Aqueous Suspension. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 16903-16910	3.8	10
128	Adsorbed Conformations of PCE Superplasticizers in Cement Pore Solution Unraveled by Molecular Dynamics Simulations. <i>Scientific Reports</i> , 2017 , 7, 16599	4.9	24

(2015-2017)

127	Atomistic dynamics simulation to solve conformation of model PCE superplasticisers in water and cement pore solution. <i>Advances in Cement Research</i> , 2017 , 29, 418-428	1.8	18
126	Impact of the molecular architecture of polycarboxylate superplasticizers on the dispersion of multi-walled carbon nanotubes in aqueous phase. <i>Journal of Materials Science</i> , 2017 , 52, 2296-2307	4.3	35
125	A novel kind of concrete superplasticizer based on lignite graft copolymers. <i>Cement and Concrete Research</i> , 2016 , 79, 123-130	10.3	22
124	Contribution of non-adsorbing polymers to cement dispersion. <i>Cement and Concrete Research</i> , 2016 , 79, 131-136	10.3	47
123	Synthesis, characterization and performance of a novel phosphate-modified fluid loss additive useful in oil well cementing. <i>Journal of Natural Gas Science and Engineering</i> , 2016 , 36, 165-174	4.6	14
122	Impact of different types of polycarboxylate superplasticisers on spontaneous crystallisation of ettringite. <i>Advances in Cement Research</i> , 2016 , 28, 310-319	1.8	18
121	Crystal growth of [Ca3Al(OH)6[12H2O]2[[SO4)3[2H2O (ettringite) under microgravity: On the impact of anionicity of polycarboxylate comb polymers. <i>Journal of Crystal Growth</i> , 2016 , 446, 92-102	1.6	20
120	Impact of welan gum stabilizer on the dispersing performance of polycarboxylate superplasticizers. <i>Cement and Concrete Research</i> , 2016 , 82, 100-106	10.3	18
119	A microstructural analysis of isoprenol ether-based polycarboxylates and the impact of structural motifs on the dispersing effectiveness. <i>Cement and Concrete Research</i> , 2016 , 84, 20-29	10.3	43
118	Early Hydration of Portland Cement Admixed with Polycarboxylates Studied Under Terrestric and Microgravity Conditions. <i>Journal of Advanced Concrete Technology</i> , 2016 , 14, 102-107	2.3	5
117	Passive and active mechanical properties of biotemplated ceramics revisited. <i>Bioinspiration and Biomimetics</i> , 2016 , 11, 065001	2.6	5
116	Influence of temperature and moisture on the shelf-life of cement admixed with redispersible polymer powder. <i>Construction and Building Materials</i> , 2016 , 115, 336-344	6.7	7
115	Influence of electrolytes on the performance of a graft copolymer used as fluid loss additive in oil well cement. <i>Journal of Petroleum Science and Engineering</i> , 2016 , 143, 86-94	4.4	12
114	An ITC Study on the Interaction Energy Between Galactomannan Biopolymers and Selected MO2 Nanoparticles in Hydrogels. <i>ChemistrySelect</i> , 2016 , 1, 1804-1809	1.8	O
113	Production and characterization of hierarchical porous silica made using natural rubber as template: Effects of the template removal methods, the pH of production, and the natural rubber sources. <i>Chemical Engineering Research and Design</i> , 2016 , 113, 273-283	5.5	8
112	Intercalation of sulfonated melamine formaldehyde polycondensates into a hydrocalumite LDH structure. <i>Journal of Physics and Chemistry of Solids</i> , 2015 , 80, 112-117	3.9	9
111	Behavior of Titania Nanoparticles in Cross-linking Hydroxypropyl Guar Used in Hydraulic Fracturing Fluids For Oil Recovery. <i>Energy & Discounty Supply</i> 29, 3601-3608	4.1	39
110	Impact of carboxylated styrene B utadiene copolymer on the hydration kinetics of OPC and OPC/CAC/AH: The effect of Ca2 + sequestration from pore solution. <i>Cement and Concrete Research</i> , 2015 , 73, 184-189	10.3	17

109	Influence of carboxylated styrene B utadiene latex copolymer on Portland cement hydration. <i>Cement and Concrete Composites</i> , 2015 , 63, 42-50	8.6	25
108	New insights into physicochemical interactions occurring between polycarboxylate superplasticizers and a stabilizer in self-compacting concrete. <i>Journal of Sustainable Cement-Based Materials</i> , 2015 , 4, 164-175	3.6	4
107	Intercalation of cellulase enzyme into a hydrotalcite layer structure. <i>Journal of Physics and Chemistry of Solids</i> , 2015 , 76, 34-39	3.9	4
106	Effect of biotechnologically modified alginates on LDH structures. <i>Bioinspired, Biomimetic and Nanobiomaterials</i> , 2015 , 4, 174-186	1.3	5
105	Optimization of comb-shaped polycarboxylate cement dispersants to achieve fast-flowing mortar and concrete. <i>Journal of Applied Polymer Science</i> , 2015 , 132, n/a-n/a	2.9	18
104	Formation of Nano-Sized Ettringite Crystals Identified as Root Cause for Cement Incompatibility of PCE Superplasticizers 2015 , 55-63		7
103	Early hydration of Portland cement studied under microgravity conditions. <i>Construction and Building Materials</i> , 2015 , 93, 877-883	6.7	17
102	Influence of anti-caking agent kaolin on film formation of ethylenelinylacetate and carboxylated styreneliutadiene latex polymers. <i>Cement and Concrete Research</i> , 2014 , 58, 112-120	10.3	19
101	Influence of the HLB value of polycarboxylate superplasticizers on the flow behavior of mortar and concrete. <i>Cement and Concrete Research</i> , 2014 , 60, 45-50	10.3	61
100	Synthesis and Properties of a Vinyl Ether-Based Polycarboxylate Superplasticizer for Concrete Possessing Clay Tolerance. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 1048-1055	3.9	77
99	Study of the interaction between cement phases and polycarboxylate superplasticizers possessing silyl functionalities. <i>Journal of Sustainable Cement-Based Materials</i> , 2014 , 3, 77-87	3.6	7
98	On the role of colloidal crystal-like domains in the film forming process of a carboxylated styrene-butadiene latex copolymer. <i>Progress in Organic Coatings</i> , 2014 , 77, 685-690	4.8	9
97	Impact of particle size on interaction forces between ettringite and dispersing comb-polymers in various electrolyte solutions. <i>Journal of Colloid and Interface Science</i> , 2014 , 419, 17-24	9.3	21
96	Chemikalien f Fracking. <i>Nachrichten Aus Der Chemie</i> , 2014 , 62, 607-611	0.1	4
95	Determination of the adsorbed layer thickness of functional anionic polymers utilizing chemically modified polystyrene nanoparticles. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014 , 456, 139-145	5.1	17
94	Preparation and Properties of a Graphene Oxide Intercalation Compound Utilizing Hydrocalumite Layered Double Hydroxide as Host Structure. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2014 , 640, 1413-1419	1.3	5
93	Impact of Temperature on the Solution Conformation and Performance of AMPS - and AHPS-based Fluid Loss Polymers in Oil Well Cement. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 2014 , 69, 1131-1140	1	2
92	Impact of environmental moisture on C3A polymorphs in the absence and presence of CaSO4[10]5 H2O. <i>Advances in Cement Research</i> , 2014 , 26, 29-40	1.8	15

91	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	10.3	22
90	Microcapsules prepared from a polycondensate-based cement dispersant via layer-by-layer self-assembly on melamine-formaldehyde core templates. <i>Journal of Applied Polymer Science</i> , 2013 , 127, 3705-3711	2.9	14
89	Synthesis, characterization, and working mechanism of a synthetic high temperature (200˚C) fluid loss polymer for oil well cementing containing allyloxy-2-hydroxy propane sulfonic (AHPS) acid monomer. <i>Journal of Applied Polymer Science</i> , 2013 , 128, 851-860	2.9	28
88	Mineralisation of CaCO3 in the presence of polycarboxylate comb polymers. <i>Cement and Concrete Research</i> , 2013 , 54, 1-11	10.3	16
87	Water retention capacity and working mechanism of methyl hydroxypropyl cellulose (MHPC) in gypsum plaster [Which impact has sulfate?. <i>Cement and Concrete Research</i> , 2013 , 46, 66-72	10.3	30
86	A Review of Synergistic and Antagonistic Effects Between Oilwell-Cement Additives. <i>SPE Drilling and Completion</i> , 2013 , 28, 398-404	1.4	12
85	Influence of type of superplasticizer and cement composition on the adhesive bonding between aged and fresh concrete. <i>Construction and Building Materials</i> , 2013 , 48, 717-724	6.7	8
84	Occurrence of intercalation of PCE superplasticizers in calcium aluminate cement under actual application conditions, as evidenced by SAXS analysis. <i>Cement and Concrete Research</i> , 2013 , 54, 191-198	10.3	18
83	Synthesis and performance of a modified polycarboxylate dispersant for concrete possessing enhanced cement compatibility. <i>Journal of Applied Polymer Science</i> , 2013 , 129, 346-353	2.9	32
82	Effect of heat treatment on the dispersion performance of casein superplasticizer used in dry-mix mortar. <i>Cement and Concrete Research</i> , 2013 , 51, 1-5	10.3	11
81	Preparation and properties of a dispersing fluid loss additive based on humic acid graft copolymer suitable for cementing high temperature (200°C) oil wells. <i>Journal of Applied Polymer Science</i> , 2013 , 129, 2544-2553	2.9	26
80	Synthesis and properties of magnesium carbonate xerogels and aerogels. <i>Journal of Non-Crystalline Solids</i> , 2013 , 361, 100-105	3.9	14
79	Fractionated and Recombined Casein Superplasticizer in Self-Leveling Underlayments. <i>Advanced Materials Research</i> , 2013 , 687, 443-448	0.5	4
78	Role of PVOH and kaolin on colloidal stability of liquid and powder EVA and SB latexes in cement pore solution. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2013 , 434, 145-153	5.1	19
77	Preparation of CaCO3 and CaO Replicas Retaining the Hierarchical Structure of SpruceWood. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2013, 68, 533-538	1	8
76	Novel Core-Shell Hybrid Polymers Designed as Dual Functional Additives for Concrete. <i>Advanced Materials Research</i> , 2013 , 687, 77-83	0.5	
75	Mechanistic study on the effect of sulfate ions on polycarboxylate superplasticisers in cement. <i>Advances in Cement Research</i> , 2013 , 25, 200-207	1.8	28
74	Film Formation of a Non-Ionic Ethylene-Vinyl Acetate Latex Dispersion in Cement Pore Solution. <i>Advanced Materials Research</i> , 2013 , 687, 316-321	0.5	5

73	Effect of Ca2+ Ions on the Film Formation of an Anionic Styrene/n-Butylacrylate Latexpolymer in Cement Pore Solution. <i>Advanced Materials Research</i> , 2013 , 687, 322-328	0.5	6
72	The effect of prehydration on the engineering properties of CEM I Portland cement. <i>Advances in Cement Research</i> , 2013 , 25, 12-20	1.8	15
71	Chemistry and water-repelling properties of phenyl-incorporating wood composites. <i>Holzforschung</i> , 2013 , 67, 931-940	2	7
70	Polymorphs of molybdenum trioxide as innovative antimicrobial materials. <i>Surface Innovations</i> , 2013 , 1, 202-208	1.9	11
69	Characterization of Polycarboxylate-Ether Based Superplasticizer on Cement Clinker Surfaces. Journal of the American Ceramic Society, 2012 , 95, 2189-2195	3.8	26
68	Mechanistic study on carboxymethyl hydroxyethyl cellulose as fluid loss control additive in oil well cement. <i>Journal of Applied Polymer Science</i> , 2012 , 124, 2340-2347	2.9	34
67	A mechanistic study explaining the synergistic viscosity increase obtained from polyethylene oxide (PEO) and Ehaphthalene sulfonate (BNS) in shotcrete. <i>Cement and Concrete Research</i> , 2012 , 42, 1409-14	1 ^{£0.3}	21
66	Preferential adsorption of polycarboxylate superplasticizers on cement and silica fume in ultra-high performance concrete (UHPC). <i>Cement and Concrete Research</i> , 2012 , 42, 1401-1408	10.3	94
65	Role of colloidal polymer associates for the effectiveness of hydroxyethyl cellulose as a fluid loss control additive in oil well cement. <i>Journal of Applied Polymer Science</i> , 2012 , 126, E25-E34	2.9	29
64	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</i>	2.9	24
63	Surface Chemistry of Ground Granulated Blast Furnace Slag in Cement Pore Solution and Its Impact on the Effectiveness of Polycarboxylate Superplasticizers. <i>Journal of the American Ceramic Society</i> , 2012 , 95, 768-775	3.8	30
62	Study on the foaming behaviour of allyl ether-based polycarboxylate superplasticizers. <i>Cement and Concrete Research</i> , 2012 , 42, 484-489	10.3	33
61	Study of the retarding mechanism of linear sodium polyphosphates on Etalcium sulfate hemihydrate. <i>Cement and Concrete Research</i> , 2012 , 42, 736-744	10.3	34
60	Combination of lignosulfonate and AMPSII -co-NNDMA water retention agentIn example for dual synergistic interaction between admixtures in cement. <i>Cement and Concrete Research</i> , 2012 , 42, 728-735	10.3	37
59	Interaction mechanisms between Na montmorillonite clay and MPEG-based polycarboxylate superplasticizers. <i>Cement and Concrete Research</i> , 2012 , 42, 847-854	10.3	120
58	Photodegradation of Rhodamine B in Presence of CaO and NiO-CaO Catalysts. <i>International Journal of Photoenergy</i> , 2012 , 2012, 1-6	2.1	17
57	Intercalation of the Microbial Biopolymers Welan Gum and EPS I into Layered Double Hydroxides. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 2012 , 67, 479-487	1	5
56	Re-association Behavior of Casein Submicelles in Highly Alkaline Environments. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 2012 , 67, 621-630	1	4

55	Polymere fil die Tiefbohrzementierung. <i>Nachrichten Aus Der Chemie</i> , 2011 , 59, 510-515	0.1	
54	Adsorption of Polyelectrolytes on Calcium Carbonate LWhich Thermodynamic Parameters are Driving This Process?. <i>Journal of the American Ceramic Society</i> , 2011 , 94, 3515-3522	3.8	30
53	Working mechanism of a high temperature (200°C) synthetic cement retarder and its interaction with an AMPSO -based fluid loss polymer in oil well cement. <i>Journal of Applied Polymer Science</i> , 2011 , 124, n/a-n/a	2.9	3
52	Crystal Structure, Synthesis, and Properties of tri-Calcium di-Citrate tetra-Hydrate [Ca3(C6H5O7)2(H2O)2]DH2O. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2011 , 637, 655-659	1.3	23
51	Polyelectrolyte complexes from polyethylene imine/acetone formaldehyde sulfite polycondensates: A novel reagent for effective fluid loss control of oil well cement slurries. <i>Journal of Applied Polymer Science</i> , 2011 , 121, 1262-1275	2.9	13
50	Effect of high temperature and the role of sulfate on adsorption behavior and effectiveness of AMPS -based cement fluid loss polymers. <i>Journal of Applied Polymer Science</i> , 2011 , 121, 1086-1095	2.9	11
49	An ESEM investigation of latex film formation in cement pore solution. <i>Cement and Concrete Research</i> , 2011 , 41, 184-190	10.3	36
48	Interaction Between Polycarboxylate Superplasticizers and Amorphous Ground Granulated Blast Furnace Slag. <i>Journal of the American Ceramic Society</i> , 2010 , 93, 2857-2863	3.8	29
47	Ca2+-Mediated Interaction Between Microsilica and Polycarboxylate Comb Polymers in a Model Cement Pore Solution. <i>Journal of the American Ceramic Society</i> , 2010 , 93, 3493-3498	3.8	22
46	Preparation of hydrocalumite-based nanocomposites using polycarboxylate comb polymers possessing high grafting density as interlayer spacers. <i>Applied Clay Science</i> , 2010 , 47, 378-383	5.2	24
45	Impact of the steric position of phosphonate groups in poly(N,N-dimethylacrylamide-co-2-acrylamido-2-methylpropanesulfonate-co-2-X-phosphonate) on its adsorbed conformation on cement: Comparison of vinylphosphonic acid and	2.9	4
44	2-acrylamido-2-methylpropanephosphonate modified terpolymers. <i>Journal of Applied Polymer</i> Competitive adsorption between an AMPSII -based fluid loss polymer and Welan gum biopolymer in oil well cement. <i>Journal of Applied Polymer Science</i> , 2010 , 116, NA-NA	2.9	11
43	Working mechanism of poly(vinyl alcohol) cement fluid loss additive. <i>Journal of Applied Polymer Science</i> , 2010 , 117, 2290-2298	2.9	12
42	Interaction of cement model systems with superplasticizers investigated by atomic force microscopy, zeta potential, and adsorption measurements. <i>Journal of Colloid and Interface Science</i> , 2010 , 347, 15-24	9.3	161
41	Self-assembly and characterization of CallIDH nanohybrids containing casein proteins as guest anions. <i>Journal of Physics and Chemistry of Solids</i> , 2010 , 71, 468-472	3.9	34
40	Fundamental mechanisms for polycarboxylate intercalation into C3A hydrate phases and the role of sulfate present in cement. <i>Cement and Concrete Research</i> , 2010 , 40, 45-57	10.3	139
39	Hybrid additives for construction applications, fabricated through layer-by-layer adsorption of polycondensate type superplasticizers on latex templates. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2010 , 366, 38-44	5.1	13
38	Formation of an Inorganic-Organic Host-Guest Material by Intercalation of Acetone Formaldehyde Sulfite Polycondensate into a Hydrocalumite Structure. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> 2010 636 1533-1537	1.3	4

37	Preparation and Characterization of a Calcium Carbonate Aerogel. <i>Research Letters in Materials Science</i> , 2009 , 2009, 1-3		5
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