

Kamal Henri Khayat

List of Publications by Citations

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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.

295 papers	9,904 citations	53 h-index	89 g-index
310 ext. papers	13,660 ext. citations	6 avg, IF	7.33 L-index

#	Paper	IF	Citations
295	A review on ultra high performance concrete: Part I. Raw materials and mixture design. <i>Construction and Building Materials</i> , 2015 , 101, 741-751	6.7	431
294	Characteristics and pozzolanic reactivity of glass powders. <i>Cement and Concrete Research</i> , 2005 , 35, 987-993	10.3	356
293	A review on ultra high performance concrete: Part II. Hydration, microstructure and properties. <i>Construction and Building Materials</i> , 2015 , 96, 368-377	6.7	313
292	Effects of steel fiber content and shape on mechanical properties of ultra high performance concrete. <i>Construction and Building Materials</i> , 2016 , 103, 8-14	6.7	278
291	Viscosity-enhancing admixtures for cement-based materials [An overview. <i>Cement and Concrete Composites</i> , 1998 , 20, 171-188	8.6	259
290	Stabilization/solidification of hazardous and radioactive wastes with alkali-activated cements. <i>Journal of Hazardous Materials</i> , 2006 , 137, 1656-63	12.8	234
289	Mechanical properties of ultra-high-performance concrete enhanced with graphite nanoplatelets and carbon nanofibers. <i>Composites Part B: Engineering</i> , 2016 , 107, 113-122	10	173
288	Analytical models for estimating yield stress of high-performance pseudoplastic grout. <i>Cement and Concrete Research</i> , 2001 , 31, 731-738	10.3	170
287	Static and dynamic compressive properties of ultra-high performance concrete (UHPC) with hybrid steel fiber reinforcements. <i>Cement and Concrete Composites</i> , 2017 , 79, 148-157	8.6	167
286	Effect of constituents on rheological properties of fresh concrete-A review. <i>Cement and Concrete Composites</i> , 2017 , 83, 146-159	8.6	167
285	Influence of silica fume content on microstructure development and bond to steel fiber in ultra-high strength cement-based materials (UHSC). <i>Cement and Concrete Composites</i> , 2016 , 71, 97-109	8.6	157
284	Autogenous shrinkage of high performance concrete: A review. <i>Construction and Building Materials</i> , 2017 , 149, 62-75	6.7	155
283	A review on mixture design methods for self-compacting concrete. <i>Construction and Building Materials</i> , 2015 , 84, 387-398	6.7	146
282	A review on use of limestone powder in cement-based materials: Mechanism, hydration and microstructures. <i>Construction and Building Materials</i> , 2018 , 181, 659-672	6.7	138
281	Effect of graphite nanoplatelets and carbon nanofibers on rheology, hydration, shrinkage, mechanical properties, and microstructure of UHPC. <i>Cement and Concrete Research</i> , 2018 , 105, 64-71	10.3	133
280	Optimization and performance of cost-effective ultra-high performance concrete. <i>Materials and Structures/Materiaux Et Constructions</i> , 2017 , 50, 1	3.4	129
279	Avoiding inaccurate interpretations of rheological measurements for cement-based materials. <i>Cement and Concrete Research</i> , 2015 , 78, 100-109	10.3	123

278	Effects of different nanomaterials on hardening and performance of ultra-high strength concrete (UHSC). <i>Cement and Concrete Composites</i> , 2016 , 70, 24-34	8.6	121
277	An overview on the effect of internal curing on shrinkage of high performance cement-based materials. <i>Construction and Building Materials</i> , 2017 , 146, 702-712	6.7	119
276	Improving flexural performance of ultra-high-performance concrete by rheology control of suspending mortar. <i>Composites Part B: Engineering</i> , 2017 , 117, 26-34	10	114
275	An experimental study on flexural strength of reinforced concrete beams with 100% recycled concrete aggregate. <i>Engineering Structures</i> , 2015 , 88, 154-162	4.7	114
274	Extension of the Reiner-Biwin equation to determine modified Bingham parameters measured in coaxial cylinders rheometers. <i>Materials and Structures/Materiaux Et Constructions</i> , 2013 , 46, 289-311	3.4	113
273	Effect of nano-SiO ₂ particles and curing time on development of fiber-matrix bond properties and microstructure of ultra-high strength concrete. <i>Cement and Concrete Research</i> , 2017 , 95, 247-256	10.3	109
272	Designing of Cement-Based Formula for Solidification/Stabilization of Hazardous, Radioactive, and Mixed Wastes. <i>Critical Reviews in Environmental Science and Technology</i> , 2004 , 34, 391-417	11.1	107
271	Performance of mortar prepared with recycled concrete aggregate enhanced by CO ₂ and pozzolan slurry. <i>Cement and Concrete Composites</i> , 2018 , 86, 130-138	8.6	95
270	How do fiber shape and matrix composition affect fiber pullout behavior and flexural properties of UHPC?. <i>Cement and Concrete Composites</i> , 2018 , 90, 193-201	8.6	90
269	Effects of saturated lightweight sand content on key characteristics of ultra-high-performance concrete. <i>Cement and Concrete Research</i> , 2017 , 101, 46-54	10.3	90
268	The hydration and microstructure of ultra high-strength concrete with cement-silica fume-slag binder. <i>Cement and Concrete Composites</i> , 2015 , 61, 44-52	8.6	90
267	Effect of particle-size distribution and specific surface area of different binder systems on packing density and flow characteristics of cement paste. <i>Cement and Concrete Composites</i> , 2017 , 78, 120-131	8.6	88
266	Early microstructure development of activated lime-fly ash pastes. <i>Cement and Concrete Research</i> , 1996 , 26, 1351-1359	10.3	87
265	Performance characteristics of cement grouts made with various combinations of high-range water reducer and cellulose-based viscosity modifier. <i>Cement and Concrete Research</i> , 2003 , 33, 1999-2008	10.3	86
264	On the measurement of evolution of structural build-up of cement paste with time by static yield stress test vs. small amplitude oscillatory shear test. <i>Cement and Concrete Research</i> , 2017 , 99, 183-189	10.3	84
263	Effects of SAP on the properties and pore structure of high performance cement-based materials. <i>Construction and Building Materials</i> , 2017 , 131, 476-484	6.7	81
262	Investigation of mechanical properties and shrinkage of ultra-high performance concrete: Influence of steel fiber content and shape. <i>Composites Part B: Engineering</i> , 2019 , 174, 107021	10	80
261	Comparative study on flexural properties of ultra-high performance concrete with supplementary cementitious materials under different curing regimes. <i>Construction and Building Materials</i> , 2017 , 136, 307-313	6.7	74

260	Durability of ultra-high performance concrete [A review. <i>Construction and Building Materials</i> , 2020 , 255, 119296	6.7	73
259	Rheological properties of ultra-high-performance concrete [An overview. <i>Cement and Concrete Research</i> , 2019 , 124, 105828	10.3	73
258	Effects of carbonated hardened cement paste powder on hydration and microstructure of Portland cement. <i>Construction and Building Materials</i> , 2018 , 186, 699-708	6.7	72
257	An experimental study on shear strength of reinforced concrete beams with 100% recycled concrete aggregate. <i>Construction and Building Materials</i> , 2014 , 53, 612-620	6.7	72
256	Multi-scale investigation of microstructure, fiber pullout behavior, and mechanical properties of ultra-high performance concrete with nano-CaCO ₃ particles. <i>Cement and Concrete Composites</i> , 2018 , 86, 255-265	8.6	72
255	Effect of Hybrid Fibers on Fresh Properties, Mechanical Properties, and Autogenous Shrinkage of Cost-Effective UHPC. <i>Journal of Materials in Civil Engineering</i> , 2018 , 30, 04018030	3	71
254	Shear performance of reinforced concrete beams incorporating recycled concrete aggregate and high-volume fly ash. <i>Journal of Cleaner Production</i> , 2016 , 115, 284-293	10.3	70
253	Changes in rheology and mechanical properties of ultra-high performance concrete with silica fume content. <i>Cement and Concrete Research</i> , 2019 , 123, 105786	10.3	68
252	Mitigation techniques for autogenous shrinkage of ultra-high-performance concrete [A review. <i>Composites Part B: Engineering</i> , 2019 , 178, 107456	10	67
251	Influence of Nanolimestone on the Hydration, Mechanical Strength, and Autogenous Shrinkage of Ultrahigh-Performance Concrete. <i>Journal of Materials in Civil Engineering</i> , 2016 , 28, 04015068	3	64
250	Yield stress and viscosity equations for mortars and self-consolidating concrete. <i>Cement and Concrete Research</i> , 2007 , 37, 655-670	10.3	63
249	Applicability of rheological models to high-performance grouts containing supplementary cementitious materials and viscosity enhancing admixture. <i>Materials and Structures/Matériaux Et Constructions</i> , 2003 , 36, 402-412	3.4	62
248	Coupled effect of time and temperature on variations of yield value of highly flowable mortar. <i>Cement and Concrete Research</i> , 2006 , 36, 832-841	10.3	61
247	Understanding the role of particle packing characteristics in rheo-physical properties of cementitious suspensions: A literature review. <i>Construction and Building Materials</i> , 2018 , 161, 340-353	6.7	61
246	How do concrete rheology, tribology, flow rate and pipe radius influence pumping pressure?. <i>Cement and Concrete Composites</i> , 2016 , 66, 38-46	8.6	57
245	Enhanced dynamic mechanical properties of cement paste modified with graphene oxide nanosheets and its reinforcing mechanism. <i>Cement and Concrete Composites</i> , 2018 , 93, 127-139	8.6	57
244	A feasible method for measuring the buildability of fresh 3D printing mortar. <i>Construction and Building Materials</i> , 2019 , 227, 116600	6.7	55
243	Uniaxial Compression Behavior of Ultra-High Performance Concrete with Hybrid Steel Fiber. <i>Journal of Materials in Civil Engineering</i> , 2016 , 28, 06016017	3	54

242	Measuring mortar shrinkage and cracking by pulse pre-pump Brillouin optical time domain analysis with a single optical fiber. <i>Materials Letters</i> , 2015 , 145, 344-346	3.3	53
241	Utility of statistical models in proportioning self-consolidating concrete. <i>Materials and Structures/Materiaux Et Constructions</i> , 2000 , 33, 338-344	3.4	53
240	Effect of mineral admixtures on the structural build-up of cement paste. <i>Construction and Building Materials</i> , 2018 , 160, 117-126	6.7	53
239	Testing and performance of fiber-reinforced, self-consolidating concrete. <i>Materials and Structures/Materiaux Et Constructions</i> , 2000 , 33, 391-397	3.4	52
238	Distributed fiber optic sensor-enhanced detection and prediction of shrinkage-induced delamination of ultra-high-performance concrete overlay. <i>Smart Materials and Structures</i> , 2017 , 26, 085009	3.4	50
237	Effects of mix design parameters and rheological properties on dynamic stability of self-consolidating concrete. <i>Cement and Concrete Composites</i> , 2014 , 54, 21-28	8.6	50
236	Experiment design to evaluate interaction of high-range water-reducer and antiwashout admixture in high-performance cement grout. <i>Cement and Concrete Research</i> , 2001 , 31, 749-757	10.3	50
235	Simple Field Tests to Characterize Fluidity and Washout Resistance of Structural Cement Grout. <i>Cement, Concrete and Aggregates</i> , 1998 , 20, 145		49
234	Mechanical and fracture properties of ultra-high performance geopolymer concrete: Effects of steel fiber and silica fume. <i>Cement and Concrete Composites</i> , 2020 , 112, 103665	8.6	48
233	Development of a tribometer to characterize lubrication layer properties of self-consolidating concrete. <i>Cement and Concrete Composites</i> , 2014 , 54, 40-52	8.6	46
232	Effect of temperature on the rheology of flowable mortars. <i>Cement and Concrete Composites</i> , 2010 , 32, 43-53	8.6	46
231	Small amplitude oscillatory shear technique to evaluate structural build-up of cement paste. <i>Materials and Structures/Materiaux Et Constructions</i> , 2017 , 50, 1	3.4	45
230	An ensemble machine learning approach for prediction and optimization of modulus of elasticity of recycled aggregate concrete. <i>Construction and Building Materials</i> , 2020 , 244, 118271	6.7	45
229	Effects of pretreated fine lightweight aggregate on shrinkage and pore structure of ultra-high strength concrete. <i>Construction and Building Materials</i> , 2019 , 204, 276-287	6.7	43
228	Changes in rheology of self-consolidating concrete induced by pumping. <i>Materials and Structures/Materiaux Et Constructions</i> , 2016 , 49, 4657-4677	3.4	42
227	Shrinkage and strength development of UHSC incorporating a hybrid system of SAP and SRA. <i>Cement and Concrete Composites</i> , 2019 , 97, 175-189	8.6	42
226	Influence of aggregate characteristics on workability of superworkable concrete. <i>Materials and Structures/Materiaux Et Constructions</i> , 2016 , 49, 597-609	3.4	40
225	Factorial design model for proportioning self-consolidating concrete. <i>Materials and Structures/Materiaux Et Constructions</i> , 1999 , 32, 679-686	3.4	40

224	Coupled effect of time and temperature on variations of plastic viscosity of highly flowable mortar. <i>Cement and Concrete Research</i> , 2009 , 39, 165-170	10.3	39
223	Flexural behaviors of fiber-reinforced polymer fabric reinforced ultra-high-performance concrete panels. <i>Cement and Concrete Composites</i> , 2018 , 93, 43-53	8.6	39
222	Rheology, hydration, and strength evolution of interground limestone cement containing PCE dispersant and high volume supplementary cementitious materials. <i>Materials and Design</i> , 2017 , 127, 54-66	8.1	38
221	Coupled effect of shrinkage-mitigating admixtures and saturated lightweight sand on shrinkage of UHPC for overlay applications. <i>Construction and Building Materials</i> , 2018 , 184, 320-329	6.7	37
220	Prediction of pumping pressure by means of new tribometer for highly-workable concrete. <i>Cement and Concrete Composites</i> , 2015 , 57, 102-115	8.6	37
219	New development of ultra-high-performance concrete (UHPC). <i>Composites Part B: Engineering</i> , 2021 , 224, 109220	10	37
218	A review on the use of LWA as an internal curing agent of high performance cement-based materials. <i>Construction and Building Materials</i> , 2019 , 218, 385-393	6.7	36
217	Field validation of models for predicting lateral form pressure exerted by SCC. <i>Cement and Concrete Composites</i> , 2014 , 54, 70-79	8.6	36
216	Experimental and Numerical Studies on Flexural Behavior of Ultrahigh-Performance Concrete Panels Reinforced with Embedded Glass Fiber-Reinforced Polymer Grids. <i>Transportation Research Record</i> , 2016 , 2592, 38-44	1.7	36
215	Microstructure development and mechanism of hardened cement paste incorporating graphene oxide during carbonation. <i>Cement and Concrete Composites</i> , 2018 , 94, 72-84	8.6	36
214	Linking solid particle packing of Eco-SCC to material performance. <i>Cement and Concrete Composites</i> , 2014 , 54, 117-125	8.6	35
213	Fiber orientation effects on ultra-high performance concrete formed by 3D printing. <i>Cement and Concrete Research</i> , 2021 , 143, 106384	10.3	35
212	Field performance of concrete pavement incorporating recycled concrete aggregate. <i>Construction and Building Materials</i> , 2016 , 126, 691-700	6.7	34
211	Development of ultra-high performance geopolymer concrete (UHPGC): Influence of steel fiber on mechanical properties. <i>Cement and Concrete Composites</i> , 2020 , 112, 103670	8.6	33
210	Effects of loading rate and notch-to-depth ratio of notched beams on flexural performance of ultra-high-performance concrete. <i>Cement and Concrete Composites</i> , 2017 , 83, 349-359	8.6	32
209	Kinetics of formwork pressure drop of self-consolidating concrete containing various types and contents of binder. <i>Cement and Concrete Research</i> , 2005 , 35, 1522-1530	10.3	32
208	Rheology control of ultra-high-performance concrete made with different fiber contents. <i>Cement and Concrete Research</i> , 2020 , 138, 106222	10.3	32
207	Effect of silica fume and slump-retaining polycarboxylate-based dispersant on the development of properties of portland cement paste. <i>Cement and Concrete Composites</i> , 2019 , 99, 181-190	8.6	31

206	Influence of Silica Fume and Polycarboxylate Ether Dispersant on Hydration Mechanisms of Cement. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 26814-26823	3.8	31
205	Electrical conductivity method to assess static stability of self-consolidating concrete. <i>Cement and Concrete Research</i> , 2011 , 41, 451-458	10.3	31
204	Final report of RILEM TC 205-DSC: durability of self-compacting concrete. <i>Materials and Structures/Materiaux Et Constructions</i> , 2008 , 41, 225-233	3.4	31
203	Field-oriented test methods to evaluate structural build-up at rest of flowable mortar and concrete. <i>Materials and Structures/Materiaux Et Constructions</i> , 2012 , 45, 1547-1564	3.4	30
202	Measurement systems for determining formwork pressure of highly-flowable concrete. <i>Materials and Structures/Materiaux Et Constructions</i> , 2007 , 41, 37-46	3.4	30
201	Effect of steel fibers with galvanized coatings on corrosion of steel bars embedded in UHPC. <i>Composites Part B: Engineering</i> , 2019 , 177, 107445	10	29
200	Effects of superabsorbent polymer on shrinkage properties of ultra-high strength concrete under drying condition. <i>Construction and Building Materials</i> , 2019 , 215, 799-811	6.7	29
199	Effect of water absorption of SAP on the rheological properties of cement-based materials with ultra-low w/b ratio. <i>Construction and Building Materials</i> , 2019 , 195, 66-74	6.7	29
198	Effects of superabsorbent polymer on interfacial transition zone and mechanical properties of ultra-high performance concrete. <i>Construction and Building Materials</i> , 2020 , 231, 117142	6.7	29
197	Time-dependent rheological behavior of cementitious paste under continuous shear mixing. <i>Construction and Building Materials</i> , 2019 , 226, 591-600	6.7	28
196	Effects of Deicing Salts on the Scaling Resistance of Concrete. <i>Journal of Materials in Civil Engineering</i> , 2015 , 27, 04014160	3	28
195	Testing Abrasion Resistance of High-Strength Concrete. <i>Cement, Concrete and Aggregates</i> , 2001 , 23, 34		28
194	Effect of SCM and nano-particles on static and dynamic mechanical properties of UHPC. <i>Construction and Building Materials</i> , 2018 , 182, 118-125	6.7	27
193	Effect of casting rate and concrete temperature on formwork pressure of self-consolidating concrete. <i>Materials and Structures/Materiaux Et Constructions</i> , 2007 , 39, 333-341	3.4	27
192	Self-Consolidating Concrete for Precast, Prestressed Concrete Bridge Elements		27
191	Mix design approach for low-powder self-consolidating concrete: Eco-SCC content optimization and performance. <i>Materials and Structures/Materiaux Et Constructions</i> , 2017 , 50, 1	3.4	26
190	Feasibility of using natural SCMs in concrete for infrastructure applications. <i>Construction and Building Materials</i> , 2016 , 127, 724-732	6.7	26
189	Evaluation of steel fiber distribution in cement-based mortars using active microwave thermography. <i>Materials and Structures/Materiaux Et Constructions</i> , 2016 , 49, 5051-5065	3.4	26

188	Structural build-up of cementitious paste with nano-Fe ₃ O ₄ under time-varying magnetic fields. <i>Cement and Concrete Research</i> , 2019 , 124, 105857	10.3	26
187	Mechanisms underlying the strength enhancement of UHPC modified with nano-SiO ₂ and nano-CaCO ₃ . <i>Cement and Concrete Composites</i> , 2021 , 119, 103992	8.6	25
186	Influences of shear-mixing rate and fly ash on rheological behavior of cement pastes under continuous mixing. <i>Construction and Building Materials</i> , 2018 , 188, 170-177	6.7	24
185	Effect of mix design on restrained shrinkage of self-consolidating concrete. <i>Materials and Structures/Materiaux Et Constructions</i> , 2010 , 43, 367-380	3.4	22
184	Effects of rotational shearing on rheological behavior of fresh mortar with short glass fiber. <i>Construction and Building Materials</i> , 2019 , 203, 314-321	6.7	21
183	Effect of Mixture Consistency on Formwork Pressure Exerted by Highly Flowable Concrete. <i>Journal of Materials in Civil Engineering</i> , 2006 , 18, 786-791	3	21
182	Repair of 130-Year Old Masonry Bridge using High-Performance Cement Grout. <i>Journal of Bridge Engineering</i> , 2002 , 7, 31-38	2.7	21
181	Choice of thixotropic index to evaluate formwork pressure characteristics of self-consolidating concrete. <i>Cement and Concrete Research</i> , 2014 , 63, 89-97	10.3	20
180	High-performance cement grout for underwater crack injection. <i>Canadian Journal of Civil Engineering</i> , 1997 , 24, 405-418	1.3	20
179	Aqueous CaCO ₃ dispersions as reference systems for early-age cementitious materials. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2006 , 291, 202-211	5.1	19
178	Optimization of steam-curing regime for high-strength, self-consolidating concrete for precast, prestressed concrete applications. <i>PCI Journal</i> , 2012 , 57, 48-62	2.1	19
177	Effects of lightweight sand and steel fiber contents on the corrosion performance of steel rebar embedded in UHPC. <i>Construction and Building Materials</i> , 2020 , 238, 117709	6.7	19
176	Experimental investigation and prediction of elastic modulus of ultra-high performance concrete (UHPC) based on its composition. <i>Cement and Concrete Research</i> , 2020 , 138, 106241	10.3	19
175	Enhancing the performance of calcium sulfoaluminate blended cements with shrinkage reducing admixture or lightweight sand. <i>Cement and Concrete Composites</i> , 2018 , 87, 29-43	8.6	19
174	Thermal performance and corrosion resistance of structural-functional concrete made with inorganic PCM. <i>Construction and Building Materials</i> , 2020 , 249, 118768	6.7	18
173	Laboratory investigation of rheological properties and scaling resistance of air entrained self-consolidating concrete. <i>Materials and Structures/Materiaux Et Constructions</i> , 1999 , 32, 235-240	3.4	18
172	Calculation of chloride ion concentration in expressed pore solution of cement-based materials exposed to a chloride salt solution. <i>Cement and Concrete Research</i> , 2016 , 89, 168-176	10.3	18
171	Effect of concrete rheological properties on quality of formed surfaces cast with self-consolidating concrete and superworkable concrete. <i>Cement and Concrete Composites</i> , 2018 , 93, 75-84	8.6	18

170	Contribution of fiber orientation to enhancing dynamic properties of UHPC under impact loading. <i>Cement and Concrete Composites</i> , 2021 , 121, 104108	8.6	18
169	Rheological approach in proportioning and evaluating prestressed self-consolidating concrete. <i>Cement and Concrete Composites</i> , 2017 , 82, 105-116	8.6	17
168	Numerical and analytical modeling of fiber-matrix bond behaviors of high performance cement composite. <i>Cement and Concrete Research</i> , 2019 , 125, 105892	10.3	17
167	Effect of SCC Mixture Composition on Thixotropy and Formwork Pressure. <i>Journal of Materials in Civil Engineering</i> , 2012 , 24, 876-888	3	17
166	Contribution of fiber alignment on flexural properties of UHPC and prediction using the Composite Theory. <i>Cement and Concrete Composites</i> , 2021 , 118, 103971	8.6	17
165	Design and performance of low shrinkage UHPC for thin bonded bridge deck overlay. <i>Cement and Concrete Composites</i> , 2021 , 118, 103953	8.6	17
164	Effect of superabsorbent polymer characteristics on rheology of ultra-high performance concrete. <i>Cement and Concrete Composites</i> , 2020 , 112, 103636	8.6	16
163	Effect of welan gum and nanoclay on thixotropy of UHPC. <i>Cement and Concrete Research</i> , 2020 , 138, 106238	10.3	16
162	Ambient temperature cured just-add-water geopolymer for 3D concrete printing applications. <i>Cement and Concrete Composites</i> , 2021 , 121, 104060	8.6	16
161	Variations of sorptivity with rheological properties of concrete cover in self-consolidating concrete. <i>Construction and Building Materials</i> , 2016 , 113, 113-120	6.7	15
160	Effect of shrinkage reducing admixture on early expansion and strength evolution of calcium sulfoaluminate blended cement. <i>Cement and Concrete Composites</i> , 2018 , 92, 82-91	8.6	15
159	Form pressure generated by fresh concrete: a review about practice in formwork design. <i>Materials and Structures/Materiaux Et Constructions</i> , 2014 , 47, 1099-1113	3.4	15
158	Mixture Proportioning and Testing of Fiber-Reinforced Self-Consolidating Concrete. <i>ACI Materials Journal</i> , 2014 , 111,	0.9	15
157	Effects of SAP characteristics on internal curing of UHPC matrix. <i>Construction and Building Materials</i> , 2021 , 280, 122530	6.7	15
156	Experimental study on the bond behavior of GFRP bars in normal and self-consolidating concrete. <i>Construction and Building Materials</i> , 2018 , 189, 869-881	6.7	15
155	Particle migration during concrete rheometry: How bad is it?. <i>Materials and Structures/Materiaux Et Constructions</i> , 2017 , 50, 1	3.4	14
154	Valorization of dredged sediments in self-consolidating concrete: Fresh, hardened, and microstructural properties. <i>Journal of Cleaner Production</i> , 2020 , 263, 121472	10.3	14
153	Determination of mortar setting times using shear wave velocity evolution curves measured by the bender element technique. <i>Cement and Concrete Research</i> , 2018 , 106, 1-11	10.3	14

152	Rheological behavior of Portland clinker-calcium sulphoaluminate clinker-anhydrite ternary blend. <i>Cement and Concrete Composites</i> , 2019 , 104, 103403	8.6	14
151	Performance-Based Specifications of Workability Characteristics of Prestressed, Precast Self-Consolidating Concrete-A North American Prospective. <i>Materials</i> , 2014 , 7, 2474-2489	3.5	14
150	Factorial Design and Optimization of Ultra-High-Performance Concrete with Lightweight Sand. <i>ACI Materials Journal</i> , 2018 , 115,	0.9	14
149	Effect of fiber characteristics on fresh properties of fiber-reinforced concrete with adapted rheology. <i>Construction and Building Materials</i> , 2020 , 230, 116852	6.7	14
148	A review on seawater sea-sand concrete: Mixture proportion, hydration, microstructure and properties. <i>Construction and Building Materials</i> , 2021 , 295, 123602	6.7	14
147	Influence of particle lattice effect on stability of suspensions: application to self-consolidating concrete. <i>Materials and Structures/Materiaux Et Constructions</i> , 2017 , 50, 1	3.4	13
146	Durability characteristics of self-consolidating concrete designated for repair applications. <i>Materials and Structures/Materiaux Et Constructions</i> , 2009 , 42, 1-14	3.4	13
145	Characterization and pozzolanic properties of silica fume stored in an open pond. <i>Cement and Concrete Research</i> , 1995 , 25, 395-407	10.3	13
144	Performance of Fiber-Reinforced Self-Consolidating Concrete for Repair of Reinforced Concrete Beams. <i>ACI Structural Journal</i> , 2014 , 111,	1.7	13
143	Effect of Recycled Concrete Aggregate Replacement Level on Shear Strength of Reinforced Concrete Beams. <i>ACI Materials Journal</i> , 2015 , 112,	0.9	13
142	Effect of graphene oxide on rheology, hydration and strength development of cement paste. <i>Construction and Building Materials</i> , 2020 , 265, 120311	6.7	13
141	Prediction of fiber orientation and flexural performance of UHPC based on suspending mortar rheology and casting method. <i>Cement and Concrete Composites</i> , 2021 , 122, 104142	8.6	13
140	Thixotropic structural build-up of cement-based materials: A state-of-the-art review. <i>Cement and Concrete Composites</i> , 2021 , 122, 104152	8.6	13
139	Microstructural and micromechanical characteristics of ultra-high performance concrete with superabsorbent polymer (SAP). <i>Cement and Concrete Research</i> , 2021 , 149, 106560	10.3	13
138	Numerical simulation of self-consolidating concrete flow as a heterogeneous material in L-Box set-up: coupled effect of reinforcing bars and aggregate content on flow characteristics. <i>Materials and Structures/Materiaux Et Constructions</i> , 2017 , 50, 1	3.4	12
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29	Dynamical properties of environmental high-performance composites with calcined clay. <i>Journal of Cleaner Production</i> , 2022 , 335, 130226	10.3	1
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27	Experimental Study on Splice Strength of Glass Fiber-Reinforced Polymer Reinforcing Bars in Normal and Self-Consolidating Concrete. <i>ACI Materials Journal</i> , 2019 , 116,	0.9	1

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13	Tension-Stiffening Effect Consideration for Modeling Deflection of Cracked Reinforced UHPC Beams. <i>Sustainability</i> , 2022 , 14, 415	3.6	o
12	Coupled effect of fiber and granular skeleton characteristics on packing density of fiber-aggregate mixtures. <i>Construction and Building Materials</i> , 2022 , 342, 127932	6.7	o
11	Investigation on chloride binding capacity and stability of Friedel's salt in graphene oxide reinforced cement paste. <i>Cement and Concrete Composites</i> , 2022 , 132, 104603	8.6	o
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