

Narayanan Neithalath

List of Publications by Year in Descending Order

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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.

155
papers

6,062
citations

42
h-index

74
g-index

160
ext. papers

7,195
ext. citations

5.9
avg, IF

6.37
L-index

#	Paper	IF	Citations
155	A comprehensive analysis of buildability of 3D-printed concrete and the use of bi-linear stress-strain criterion-based failure curves towards their prediction. <i>Cement and Concrete Composites</i> , 2022 , 128, 104424	8.6	2
154	Transfer (machine) learning approaches coupled with target data augmentation to predict the mechanical properties of concrete. <i>Machine Learning With Applications</i> , 2022 , 100271	6.5	0
153	Mathematical morphology-based point cloud analysis techniques for geometry assessment of 3D printed concrete elements. <i>Additive Manufacturing</i> , 2021 , 49, 102499	6.1	
152	Machine learning-based accelerated property prediction of two-phase materials using microstructural descriptors and finite element analysis. <i>Computational Materials Science</i> , 2021 , 191, 110328	3.2	13
151	Damage development in neutron-irradiated concrete in a test reactor: Hygro-thermal and mechanical simulations. <i>Cement and Concrete Research</i> , 2021 , 142, 106349	10.3	4
150	The role of gas flow distributions on CO ₂ mineralization within monolithic cemented composites: coupled CFD-factorial design approach. <i>Reaction Chemistry and Engineering</i> , 2021 , 6, 494-504	4.9	1
149	Characterization of toughening mechanisms in UHPC through image correlation and inverse analysis of flexural results. <i>Cement and Concrete Composites</i> , 2021 , 122, 104157	8.6	5
148	Relating print velocity and extrusion characteristics of 3D-printable cementitious binders: Implications towards testing methods. <i>Additive Manufacturing</i> , 2021 , 46, 102127	6.1	
147	Examining layer height effects on the flexural and fracture response of plain and fiber-reinforced 3D-printed beams. <i>Cement and Concrete Composites</i> , 2021 , 124, 104254	8.6	5
146	New insights into the mechanisms of carbon dioxide mineralization by portlandite. <i>AIChE Journal</i> , 2021 , 67, e17160	3.6	2
145	Calcination-free production of calcium hydroxide at sub-boiling temperatures.. <i>RSC Advances</i> , 2021 , 11, 1762-1772	3.7	2
144	Effect of Layer Height on Tensile Stress Distribution and Crack Width-and-Propagation in 3D Printed Fiber-Reinforced Flexural Elements 2021 , 13-26		
143	A critical examination of the influence of material characteristics and extruder geometry on 3D printing of cementitious binders. <i>Cement and Concrete Composites</i> , 2020 , 112, 103671	8.6	22
142	The effects of (di-,tri-valent)-cation partitioning and intercalant anion-type on the solubility of hydrotalcites. <i>Journal of the American Ceramic Society</i> , 2020 , 103, 6025-6039	3.8	3
141	Finite element simulation of restrained shrinkage cracking of cementitious materials: Considering moisture diffusion, aging viscoelasticity, aleatory uncertainty, and the effects of soft/stiff inclusions. <i>Finite Elements in Analysis and Design</i> , 2020 , 173, 103390	2.2	1
140	Dispersing nano- and micro-sized portlandite particulates via electrosteric exclusion at short screening lengths. <i>Soft Matter</i> , 2020 , 16, 3425-3435	3.6	2
139	How clay particulates affect flow cessation and the coiling stability of yield stress-matched cementing suspensions. <i>Soft Matter</i> , 2020 , 16, 3929-3940	3.6	1

138	Elucidating the nano-mechanical behavior of multi-component binders for ultra-high performance concrete. <i>Construction and Building Materials</i> , 2020 , 243, 118214	6.7	7
137	Simulation of chloride diffusion in fly ash and limestone-calcined clay cement (LC3) concretes and the influence of damage on service-life. <i>Cement and Concrete Research</i> , 2020 , 130, 106010	10.3	15
136	A thermodynamic framework for modelling thixotropic yield stress fluids: Application to cement pastes. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2020 , 281, 104318	2.7	5
135	Machine learning approaches to predict the micromechanical properties of cementitious hydration phases from microstructural chemical maps. <i>Construction and Building Materials</i> , 2020 , 265, 120647	6.7	7
134	Atomic Dislocations and Bond Rupture Govern Dissolution Enhancement under Acoustic Stimulation. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 55399-55410	9.5	2
133	Relating the nano-mechanical response and qualitative chemical maps of multi-component ultra-high performance cementitious binders. <i>Construction and Building Materials</i> , 2020 , 260, 119959	6.7	3
132	Temperature-Induced Aggregation in Portlandite Suspensions. <i>Langmuir</i> , 2020 , 36, 10811-10821	4	3
131	Fundamental insights into the compressive and flexural response of binder- and aggregate-optimized ultra-high performance concrete (UHPC). <i>Cement and Concrete Composites</i> , 2019 , 98, 1-13	8.6	36
130	Simulating the Fracture of Notched Mortar Beams through Extended Finite-Element Method and Peridynamics. <i>Journal of Engineering Mechanics - ASCE</i> , 2019 , 145, 04019049	2.4	7
129	Material design of economical ultra-high performance concrete (UHPC) and evaluation of their properties. <i>Cement and Concrete Composites</i> , 2019 , 104, 103346	8.6	45
128	Experimental and Numerical Investigation of Fracture Behavior of Particle-Reinforced Alkali-Activated Slag Mortars. <i>Journal of Materials in Civil Engineering</i> , 2019 , 31, 04019043	3	9
127	Examining the effects of microencapsulated phase change materials on early-age temperature evolutions in realistic pavement geometries. <i>Cement and Concrete Composites</i> , 2019 , 103, 149-159	8.6	14
126	Insights into material design, extrusion rheology, and properties of 3D-printable alkali-activated fly ash-based binders. <i>Materials and Design</i> , 2019 , 167, 107634	8.1	74
125	How Microstructure and Pore Moisture Affect Strength Gain in Portlandite-Enriched Composites That Mineralize CO ₂ . <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 13053-13061	8.3	15
124	Synthesis and characterization of 3D-printable geopolymetric foams for thermally efficient building envelope materials. <i>Cement and Concrete Composites</i> , 2019 , 104, 103377	8.6	28
123	Discrete Element Simulations of Rheological Response of Cementitious Binders as Applied to 3D Printing. <i>RILEM Bookseries</i> , 2019 , 102-112	0.5	2
122	The effect of irradiation on the atomic structure and chemical durability of calcite and dolomite. <i>Npj Materials Degradation</i> , 2019 , 3,	5.7	10
121	Linking fresh paste microstructure, rheology and extrusion characteristics of cementitious binders for 3D printing. <i>Journal of the American Ceramic Society</i> , 2019 , 102, 3951-3964	3.8	35

120	Particle-Scale Mechanisms in Undrained Triaxial Compression of Biocemented Sands: Insights from 3D DEM Simulations with Flexible Boundary. <i>International Journal of Geomechanics</i> , 2019 , 19, 04019009	3.1	11
119	Strain sensing ability of metallic particulate reinforced cementitious composites: Experiments and microstructure-guided finite element modeling. <i>Cement and Concrete Composites</i> , 2018 , 90, 225-234	8.6	11
118	Crack Healing in Cementitious Mortars Using Enzyme-Induced Carbonate Precipitation: Quantification Based on Fracture Response. <i>Journal of Materials in Civil Engineering</i> , 2018 , 30, 04018035	3	26
117	Analysis and Design Procedures for Strain Hardening Flexural Beam and Panel. <i>RILEM Bookseries</i> , 2018 , 518-526	0.5	1
116	Synthesis and characterization of economical, multi-functional porous ceramics based on abundant aluminosilicates. <i>Materials and Design</i> , 2018 , 152, 10-21	8.1	15
115	Rheology-Based Protocol to Establish Admixture Compatibility in Dense Cementitious Suspensions. <i>Journal of Materials in Civil Engineering</i> , 2018 , 30, 04018122	3	4
114	Microstructural packing- and rheology-based binder selection and characterization for Ultra-high Performance Concrete (UHPC). <i>Cement and Concrete Research</i> , 2018 , 103, 179-190	10.3	58
113	Role of Electrochemical Surface Potential and Irradiation on Garnet-Type Almandine Dissolution Kinetics. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 17268-17277	3.8	11
112	Elucidating the influences of compliant microscale inclusions on the fracture behavior of cementitious composites. <i>Cement and Concrete Composites</i> , 2018 , 94, 13-23	8.6	6
111	Clinkering-free cementation by fly ash carbonation. <i>Journal of CO2 Utilization</i> , 2018 , 23, 117-127	7.6	38
110	Microstructure-guided numerical simulations to predict the thermal performance of a hierarchical cement-based composite material. <i>Cement and Concrete Composites</i> , 2018 , 87, 20-28	8.6	19
109	Isothermal Stimulation of Mineral Dissolution Processes by Acoustic Perturbation. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 28665-28673	3.8	6
108	Stability of Calcium-Alumino Layered-Double-Hydroxide Nanocomposites in Aqueous Electrolytes. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 13417-13426	3.9	1
107	Novel synthesis of lightweight geopolymers from fly ash through carbonate-based activation. <i>Materials Today Communications</i> , 2018 , 17, 266-277	2.5	12
106	Porous inclusions as hosts for phase change materials in cementitious composites: Characterization, thermal performance, and analytical models. <i>Construction and Building Materials</i> , 2017 , 134, 574-584	6.7	38
105	The filler effect: The influence of filler content and type on the hydration rate of tricalcium silicate. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 3316-3328	3.8	45
104	Numerical simulations to quantify the influence of phase change materials (PCMs) on the early- and later-age thermal response of concrete pavements. <i>Cement and Concrete Composites</i> , 2017 , 81, 11-24	8.6	31
103	Early-age temperature evolutions in concrete pavements containing microencapsulated phase change materials. <i>Construction and Building Materials</i> , 2017 , 147, 466-477	6.7	33

102	The durability of cementitious composites containing microencapsulated phase change materials. <i>Cement and Concrete Composites</i> , 2017 , 81, 66-76	8.6	58
101	A general method for retrieving thermal deformation properties of microencapsulated phase change materials or other particulate inclusions in cementitious composites. <i>Materials and Design</i> , 2017 , 126, 259-267	8.1	14
100	Time, Temperature, and Cationic Dependence of Alkali Activation of Slag: Insights from Fourier Transform Infrared Spectroscopy and Spectral Deconvolution. <i>Applied Spectroscopy</i> , 2017 , 71, 1795-1807	7.1	6
99	A refined, self-consistent Poisson-Nernst-Planck (PNP) model for electrically induced transport of multiple ionic species through concrete. <i>Cement and Concrete Composites</i> , 2017 , 82, 80-94	8.6	15
98	Effective Constitutive Response of Sustainable Next Generation Infrastructure Materials through High-Fidelity Experiments and Numerical Simulation. <i>Procedia Engineering</i> , 2017 , 173, 1258-1265		
97	C(N)SH and NASH gels: Compositions and solubility data at 25°C and 50°C. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 2700-2711	3.8	27
96	Mechanical and microstructural characterization of alkali sulfate activated high volume fly ash binders. <i>Materials and Design</i> , 2017 , 122, 236-246	8.1	34
95	Monovalent Ion Exchange Kinetics of Hydrated Calcium-Alumino Layered Double Hydroxides. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 63-74	3.9	11
94	Effects of Irradiation on Albite's Chemical Durability. <i>Journal of Physical Chemistry A</i> , 2017 , 121, 7835-7845	4.5	28
93	Re-examining the influence of the inclusion characteristics on the drying shrinkage of cementitious composites. <i>Construction and Building Materials</i> , 2017 , 146, 713-722	6.7	6
92	Advances in characterization and modeling of cementitious materials: transport and volume change in cementitious materials. <i>International Journal of Advances in Engineering Sciences and Applied Mathematics</i> , 2017 , 9, 52-53	0.6	
91	Topological controls on the dissolution kinetics of glassy aluminosilicates. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 5521-5527	3.8	34
90	Restrained shrinkage cracking of cementitious composites containing soft PCM inclusions: A paste (matrix) controlled response. <i>Materials and Design</i> , 2017 , 132, 367-374	8.1	12
89	3D DEM Simulations of Drained Triaxial Compression of Sand Strengthened Using Microbially Induced Carbonate Precipitation. <i>International Journal of Geomechanics</i> , 2017 , 17, 04016143	3.1	23
88	Advances in characterization and modeling of cementitious materials: materials and test methods. <i>International Journal of Advances in Engineering Sciences and Applied Mathematics</i> , 2017 , 9, 135-135	0.6	
87	The Influence of Water Activity on the Hydration Rate of Tricalcium Silicate. <i>Journal of the American Ceramic Society</i> , 2016 , 99, 2481-2492	3.8	17
86	Temperature-induced phase and microstructural transformations in a synthesized iron carbonate (siderite) complex. <i>Materials and Design</i> , 2016 , 92, 189-199	8.1	5
85	Elucidating the Crack Resistance of Alkali-Activated Slag Mortars Using Coupled Fracture Tests and Image Correlation. <i>Journal of the American Ceramic Society</i> , 2016 , 99, 273-280	3.8	5

84	Strain energy and process zone based fracture characterization of a novel iron carbonate binding material. <i>Engineering Fracture Mechanics</i> , 2016 , 156, 1-15	4.2	11
83	Ternary blends containing slag and interground/blended limestone: Hydration, strength, and pore structure. <i>Construction and Building Materials</i> , 2016 , 102, 113-124	6.7	68
82	Figure of merit for the thermal performance of cementitious composites containing phase change materials. <i>Cement and Concrete Composites</i> , 2016 , 65, 214-226	8.6	26
81	Quantitative 2D Restrained Shrinkage Cracking of Cement Paste with Wollastonite Microfibers. <i>Journal of Materials in Civil Engineering</i> , 2016 , 28, 04016082	3	9
80	Confined Water in Layered Silicates: The Origin of Anomalous Thermal Expansion Behavior in Calcium-Silicate-Hydrates. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 35621-35627	9.5	34
79	The influence of slightly and highly soluble carbonate salts on phase relations in hydrated calcium aluminate cements. <i>Journal of Materials Science</i> , 2016 , 51, 6062-6074	4.3	14
78	The influences of soft and stiff inclusions on the mechanical properties of cementitious composites. <i>Cement and Concrete Composites</i> , 2016 , 71, 153-165	8.6	25
77	A microstructure-guided constitutive modeling approach for random heterogeneous materials: Application to structural binders. <i>Computational Materials Science</i> , 2016 , 119, 52-64	3.2	26
76	Finite element-based micromechanical modeling of the influence of phase properties on the elastic response of cementitious mortars. <i>Construction and Building Materials</i> , 2016 , 127, 153-166	6.7	13
75	A methodology to extract the component size distributions in interground composite (limestone) cements. <i>Construction and Building Materials</i> , 2016 , 121, 328-337	6.7	7
74	The influence of microencapsulated phase change material (PCM) characteristics on the microstructure and strength of cementitious composites: Experiments and finite element simulations. <i>Cement and Concrete Composites</i> , 2016 , 73, 29-41	8.6	79
73	New insights into the prehydration of cement and its mitigation. <i>Cement and Concrete Research</i> , 2015 , 70, 94-103	10.3	28
72	Flexural fracture response of a novel iron carbonate matrix Glass fiber composite and its comparison to Portland cement-based composites. <i>Construction and Building Materials</i> , 2015 , 93, 360-370	6.7	17
71	The Influence of Metakaolin on Limestone Reactivity in Cementitious Materials. <i>RILEM Bookseries</i> , 2015 , 11-19	0.5	5
70	Crack propagation and strain localization in metallic particulate-reinforced cementitious mortars. <i>Materials & Design</i> , 2015 , 79, 15-25		20
69	The rheology of cementitious suspensions: A closer look at experimental parameters and property determination using common rheological models. <i>Cement and Concrete Composites</i> , 2015 , 59, 38-48	8.6	43
68	Fracture process zone and tensile behavior of blended binders containing limestone powder. <i>Cement and Concrete Research</i> , 2015 , 73, 51-62	10.3	25
67	The influence of filler type and surface area on the hydration rates of calcium aluminate cement. <i>Construction and Building Materials</i> , 2015 , 96, 657-665	6.7	33

66	Effective properties of a fly ash geopolymer: Synergistic application of X-ray synchrotron tomography, nanoindentation, and homogenization models. <i>Cement and Concrete Research</i> , 2015 , 78, 252-262	10.3	76
65	Elucidating the Role of the Aluminous Source on Limestone Reactivity in Cementitious Materials. <i>Journal of the American Ceramic Society</i> , 2015 , 98, 4076-4089	3.8	36
64	A review of materials science-based models for mixture design and permeability prediction of pervious concretes. <i>International Journal of Materials and Structural Integrity</i> , 2015 , 9, 108	0.3	2
63	Microstructural and ²⁹ Si MAS NMR spectroscopic evaluations of alkali cationic effects on fly ash activation. <i>Cement and Concrete Composites</i> , 2015 , 57, 34-43	8.6	35
62	Rheological evaluations of interground and blended cement-limestone suspensions. <i>Construction and Building Materials</i> , 2015 , 79, 65-72	6.7	32
61	Multiphysics design optimization model for structural walls incorporating phase-change materials. <i>Engineering Optimization</i> , 2015 , 47, 308-327	2	
60	Water Vapor Sorption in Cementitious Materials Measurement, Modeling and Interpretation. <i>Transport in Porous Media</i> , 2014 , 103, 69-98	3.1	31
59	On the feasibility of using phase change materials (PCMs) to mitigate thermal cracking in cementitious materials. <i>Cement and Concrete Composites</i> , 2014 , 51, 14-26	8.6	97
58	Observations on the rheological response of alkali activated fly ash suspensions: the role of activator type and concentration. <i>Rheologica Acta</i> , 2014 , 53, 843-855	2.3	60
57	The fracture response of blended formulations containing limestone powder: Evaluations using two-parameter fracture model and digital image correlation. <i>Cement and Concrete Composites</i> , 2014 , 53, 316-326	8.6	40
56	Synthesis and properties of a novel structural binder utilizing the chemistry of iron carbonation. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 8295-304	9.5	26
55	Electrically driven chloride ion transport in blended binder concretes: Insights from experiments and numerical simulations. <i>Cement and Concrete Research</i> , 2014 , 66, 1-10	10.3	19
54	Microstructural, Mechanical, and Durability Related Similarities in Concretes Based on OPC and Alkali-Activated Slag Binders. <i>International Journal of Concrete Structures and Materials</i> , 2014 , 8, 289-299 ^{2.8}	2.8	21
53	Understanding the Energy Implications of Phase-Change Materials in Concrete Walls through Finite-Element Analysis. <i>Journal of Energy Engineering - ASCE</i> , 2014 , 140, 04013009	1.7	15
52	Microstructure, strength, and moisture stability of alkali activated glass powder-based binders. <i>Cement and Concrete Composites</i> , 2014 , 45, 46-56	8.6	110
51	Fracture behavior of pervious concretes: The effects of pore structure and fibers. <i>Engineering Fracture Mechanics</i> , 2014 , 118, 1-16	4.2	62
50	Pore- and micro-structural characterization of a novel structural binder based on iron carbonation. <i>Materials Characterization</i> , 2014 , 98, 168-179	3.9	19
49	Comparative Analysis of the Influence of Sodium and Potassium Silicate Solutions on the Kinetics and Products of Slag Activation. <i>Advances in Civil Engineering Materials</i> , 2014 , 3, 20140005	0.7	4

48	Monitoring the evolution of material structure in cement pastes and concretes using electrical property measurements. <i>Construction and Building Materials</i> , 2013 , 49, 288-297	6.7	46
47	Hydration and strength development in ternary portland cement blends containing limestone and fly ash or metakaolin. <i>Cement and Concrete Composites</i> , 2013 , 39, 93-103	8.6	167
46	A comparison of intergrinding and blending limestone on reaction and strength evolution in cementitious materials. <i>Construction and Building Materials</i> , 2013 , 43, 428-435	6.7	45
45	An electrical impedance investigation into the chloride ion transport resistance of alkali silicate powder activated slag concretes. <i>Cement and Concrete Composites</i> , 2013 , 44, 58-68	8.6	37
44	The rheological properties of ternary binders containing Portland cement, limestone, and metakaolin or fly ash. <i>Cement and Concrete Research</i> , 2013 , 52, 196-207	10.3	126
43	Isothermal reaction kinetics and temperature dependence of alkali activation of slag, fly ash and their blends. <i>Construction and Building Materials</i> , 2013 , 45, 233-242	6.7	111
42	Electrically induced chloride ion transport in alkali activated slag concretes and the influence of microstructure. <i>Cement and Concrete Research</i> , 2013 , 47, 31-42	10.3	48
41	Simple methods to estimate the influence of limestone fillers on reaction and property evolution in cementitious materials. <i>Cement and Concrete Composites</i> , 2013 , 42, 20-29	8.6	86
40	The Filler Effect: The Influence of Filler Content and Surface Area on Cementitious Reaction Rates. <i>Journal of the American Ceramic Society</i> , 2013 , 96, 1978-1990	3.8	213
39	Evaluating the Use of Accelerated Test Methods for Chloride Transport in Alkali Activated Slag Concretes Using Electrical Impedance and Associated Models 2013 , 85-107		1
38	Strength and Transport Properties of Concretes Modified with Coarse Limestone Powder to Compensate for Dilution Effects. <i>Transportation Research Record</i> , 2012 , 2290, 130-138	1.7	4
37	Reaction kinetics in sodium silicate powder and liquid activated slag binders evaluated using isothermal calorimetry. <i>Thermochimica Acta</i> , 2012 , 546, 32-43	2.9	90
36	Effects of activator characteristics on the reaction product formation in slag binders activated using alkali silicate powder and NaOH. <i>Cement and Concrete Composites</i> , 2012 , 34, 809-818	8.6	112
35	Electrical impedance analysis based quantification of microstructural changes in concretes due to non-steady state chloride migration. <i>Materials Chemistry and Physics</i> , 2011 , 129, 569-579	4.4	26
34	Compressive response of pervious concretes proportioned for desired porosities. <i>Construction and Building Materials</i> , 2011 , 25, 4181-4189	6.7	101
33	Pore structure features of pervious concretes proportioned for desired porosities and their performance prediction. <i>Cement and Concrete Composites</i> , 2011 , 33, 778-787	8.6	129
32	Permeability Reduction in Pervious Concretes due to Clogging: Experiments and Modeling. <i>Journal of Materials in Civil Engineering</i> , 2010 , 22, 741-751	3	110
31	Structure and strength of NaOH activated concretes containing fly ash or GGBFS as the sole binder. <i>Cement and Concrete Composites</i> , 2010 , 32, 399-410	8.6	130

30	Moisture and ionic transport in concretes containing coarse limestone powder. <i>Cement and Concrete Composites</i> , 2010 , 32, 486-496	8.6	20
29	Compressive behavior of pervious concretes and a quantification of the influence of random pore structure features. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010 , 528, 402-412	5.3	148
28	Electrical conductivity based microstructure and strength prediction of plain and modified concretes. <i>International Journal of Advances in Engineering Sciences and Applied Mathematics</i> , 2010 , 2, 83-94	0.6	21
27	Characterizing pore volume, sizes, and connectivity in pervious concretes for permeability prediction. <i>Materials Characterization</i> , 2010 , 61, 802-813	3.9	234
26	Chloride transport in fly ash and glass powder modified concretes □ Influence of test methods on microstructure. <i>Cement and Concrete Composites</i> , 2010 , 32, 148-156	8.6	94
25	Relating rapid chloride transport parameters of concretes to microstructural features extracted from electrical impedance. <i>Cement and Concrete Research</i> , 2010 , 40, 1041-1051	10.3	75
24	Response of alkali activated fly ash mortars to microwave curing. <i>Cement and Concrete Research</i> , 2010 , 40, 1688-1696	10.3	58
23	STRUCTURE AND PROPERTIES OF NaOH ACTIVATED CEMENT FREE BINDER (CFB) CONCRETES 2009 , 169-182		
22	PREDICTING THE ELASTIC MODULI OF ENHANCED POROSITY (PERVIOUS) CONCRETES USING RECONSTRUCTED 3D MATERIAL STRUCTURES 2009 , 275-289		2
21	Analysis of the influence of material parameters on electrical conductivity of cement pastes and concretes. <i>Magazine of Concrete Research</i> , 2009 , 61, 257-270	2	6
20	Analysis of calcium leaching behavior of plain and modified cement pastes in pure water. <i>Cement and Concrete Composites</i> , 2009 , 31, 176-185	8.6	140
19	Hydration in high-performance cementitious systems containing vitreous calcium aluminosilicate or silica fume. <i>Cement and Concrete Research</i> , 2009 , 39, 473-481	10.3	44
18	Physico-chemical changes in nano-silica and silica fume modified cement pastes in response to leaching. <i>International Journal of Materials and Structural Integrity</i> , 2009 , 3, 114	0.3	8
17	Properties of Concrete Containing Vitreous Calcium Aluminosilicate Pozzolan. <i>Transportation Research Record</i> , 2008 , 2070, 32-38	1.7	10
16	Quantifying the Effects of Hydration Enhancement and Dilution in Cement Pastes Containing Coarse Glass Powder. <i>Journal of Advanced Concrete Technology</i> , 2008 , 6, 397-408	2.3	16
15	Influence of a fine glass powder on cement hydration: Comparison to fly ash and modeling the degree of hydration. <i>Cement and Concrete Research</i> , 2008 , 38, 429-436	10.3	154
14	Influence of a fine glass powder on the durability characteristics of concrete and its comparison to fly ash. <i>Cement and Concrete Composites</i> , 2008 , 30, 486-496	8.6	211
13	Electrical conductivity based characterization of plain and coarse glass powder modified cement pastes. <i>Cement and Concrete Composites</i> , 2007 , 29, 656-666	8.6	77

12	Extracting the performance predictors of Enhanced Porosity Concretes from electrical conductivity spectra. <i>Cement and Concrete Research</i> , 2007 , 37, 796-804	10.3	43
11	Evaluating the short- and long-term moisture transport phenomena in lightweight aggregate concretes. <i>Magazine of Concrete Research</i> , 2007 , 59, 435-445	2	6
10	Damage assessment in cellulose/cement composites using dynamic mechanical characteristics. <i>Cement and Concrete Composites</i> , 2006 , 28, 658-667	8.6	9
9	Characterizing Enhanced Porosity Concrete using electrical impedance to predict acoustic and hydraulic performance. <i>Cement and Concrete Research</i> , 2006 , 36, 2074-2085	10.3	170
8	Modeling the Influence of Pore Structure on the Acoustic Absorption of Enhanced Porosity Concrete. <i>Journal of Advanced Concrete Technology</i> , 2005 , 3, 29-40	2.3	42
7	Acoustic performance and damping behavior of cellulose/cement composites. <i>Cement and Concrete Composites</i> , 2004 , 26, 359-370	8.6	63
6	Reply to the discussion by H. Vaupel and I. Odler of the paper Microstructural investigations on aerated concrete. <i>Cement and Concrete Research</i> , 2001 , 31, 155	10.3	1
5	Microstructural investigations on aerated concrete. <i>Cement and Concrete Research</i> , 2000 , 30, 457-464	10.3	77
4	Structure and properties of aerated concrete: a review. <i>Cement and Concrete Composites</i> , 2000 , 22, 321-329	10.3	490
3	Influence of composition and curing on drying shrinkage of aerated concrete. <i>Materials and Structures/Materiaux Et Constructions</i> , 2000 , 33, 243-250	3.4	21
2	Factors influencing the density and compressive strength of aerated concrete. <i>Magazine of Concrete Research</i> , 2000 , 52, 163-168	2	30
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