

Narayanan Neithalath

List of Publications by Citations

Source: <https://exaly.com/author-pdf/3915485/narayanan-neithalath-publications-by-citations.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	Structure and properties of aerated concrete: a review. <i>Cement and Concrete Composites</i> , 2000 , 22, 321-329	3.9	490
154	Characterizing pore volume, sizes, and connectivity in pervious concretes for permeability prediction. <i>Materials Characterization</i> , 2010 , 61, 802-813	3.9	234
153	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
152	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
151	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
150	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
149	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
148	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
147	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
146	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
145	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
144	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
143	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
142	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
141	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
140	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
139	Compressive response of pervious concretes proportioned for desired porosities. <i>Construction and Building Materials</i> , 2011 , 25, 4181-4189	6.7	101

138	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
137	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
136	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
135	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
134	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
133	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
132	Microstructural investigations on aerated concrete. <i>Cement and Concrete Research</i> , 2000 , 30, 457-464	10.3	77
131	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
130	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
129	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
128	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
127	Acoustic performance and damping behavior of cellulose-fiber composites. <i>Cement and Concrete Composites</i> , 2004 , 26, 359-370	8.6	63
126	Fracture behavior of pervious concretes: The effects of pore structure and fibers. <i>Engineering Fracture Mechanics</i> , 2014 , 118, 1-16	4.2	62
125	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
124	The durability of cementitious composites containing microencapsulated phase change materials. <i>Cement and Concrete Composites</i> , 2017 , 81, 66-76	8.6	58
123	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
122	Response of alkali activated fly ash mortars to microwave curing. <i>Cement and Concrete Research</i> , 2010 , 40, 1688-1696	10.3	58
121	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

120	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
119	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
118	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
117	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
116	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
115	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
114	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
113	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
112	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
111	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
110	Clinkering-free cementation by fly ash carbonation. <i>Journal of CO2 Utilization</i> , 2018 , 23, 117-127	7.6	38
109	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
108	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
107	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
106	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
105	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
104	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
103	Topological controls on the dissolution kinetics of glassy aluminosilicates. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 5521-5527	3.8	34

102	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
101	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
100	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
99	Rheological evaluations of interground and blended cement-limestone suspensions. <i>Construction and Building Materials</i> , 2015 , 79, 65-72	6.7	32
98	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
97	Water Vapor Sorption in Cementitious Materials—Measurement, Modeling and Interpretation. <i>Transport in Porous Media</i> , 2014 , 103, 69-98	3.1	31
96	Factors influencing the density and compressive strength of aerated concrete. <i>Magazine of Concrete Research</i> , 2000 , 52, 163-168	2	30
95	New insights into the prehydration of cement and its mitigation. <i>Cement and Concrete Research</i> , 2015 , 70, 94-103	10.3	28
94	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
93	Effects of Irradiation on Albite's Chemical Durability. <i>Journal of Physical Chemistry A</i> , 2017 , 121, 7835-7845	8.5	28
92	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
91	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	3	26
90	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
89	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
88	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
87	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
86	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
85	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

84	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
83	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
82	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
81	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
80	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
79	Crack propagation and strain localization in metallic particulate-reinforced cementitious mortars. <i>Materials & Design</i> , 2015 , 79, 15-25		20
78	Moisture and ionic transport in concretes containing coarse limestone powder. <i>Cement and Concrete Composites</i> , 2010 , 32, 486-496	8.6	20
77	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
76	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
75	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
74	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}	6.7	17
73	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
72	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
71	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
70	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
69	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
68	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
67	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

66	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
65	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
64	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
63	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
62	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
61	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
60	Novel synthesis of lightweight geopolymer matrices from fly ash through carbonate-based activation. <i>Materials Today Communications</i> , 2018 , 17, 266-277	2.5	12
59	Monovalent Ion Exchange Kinetics of Hydrated Calcium-Alumino Layered Double Hydroxides. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 63-74	3.9	11
58	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
57	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
56	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
55	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
54	Properties of Concrete Containing Vitreous Calcium Aluminosilicate Pozzolan. <i>Transportation Research Record</i> , 2008 , 2070, 32-38	1.7	10
53	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
52	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
51	Damage assessment in cellulose cement composites using dynamic mechanical characteristics. <i>Cement and Concrete Composites</i> , 2006 , 28, 658-667	8.6	9
50	Quantitative 2D Restrained Shrinkage Cracking of Cement Paste with Wollastonite Microfibers. <i>Journal of Materials in Civil Engineering</i> , 2016 , 28, 04016082	3	9
49	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

48	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
47	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
46	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
45	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
44	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 ^{3.1}		6
43	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
42	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
41	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
40	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
39	Isothermal Stimulation of Mineral Dissolution Processes by Acoustic Perturbation. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 28665-28673	3.8	6
38	The Influence of Metakaolin on Limestone Reactivity in Cementitious Materials. <i>RILEM Bookseries</i> , 2015 , 11-19	0.5	5
37	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
36	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
35	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
34	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
33	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
32	Rheology-Based Protocol to Establish Admixture Compatibility in Dense Cementitious Suspensions. <i>Journal of Materials in Civil Engineering</i> , 2018 , 30, 04018122	3	4
31	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

30	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
29	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
28	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
27	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
26	Temperature-Induced Aggregation in Portlandite Suspensions. <i>Langmuir</i> , 2020 , 36, 10811-10821	4	3
25	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
24	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
23	PREDICTING THE ELASTIC MODULI OF ENHANCED POROSITY (PERVIOUS) CONCRETES USING RECONSTRUCTED 3D MATERIAL STRUCTURES 2009 , 275-289		2
22	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
21	Discrete Element Simulations of Rheological Response of Cementitious Binders as Applied to 3D Printing. <i>RILEM Bookseries</i> , 2019 , 102-112	0.5	2
20	Atomic Dislocations and Bond Rupture Govern Dissolution Enhancement under Acoustic Stimulation. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 55399-55410	9.5	2
19	New insights into the mechanisms of carbon dioxide mineralization by portlandite. <i>AIChE Journal</i> , 2021 , 67, e17160	3.6	2
18	Calcination-free production of calcium hydroxide at sub-boiling temperatures.. <i>RSC Advances</i> , 2021 , 11, 1762-1772	3.7	2
17	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
16	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
15	Analysis and Design Procedures for Strain Hardening Flexural Beam and Panel. <i>RILEM Bookseries</i> , 2018 , 518-526	0.5	1
14	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
13	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

12	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
11	Stability of Calcium-Alumino Layered-Double-Hydroxide Nanocomposites in Aqueous Electrolytes. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 13417-13426	3.9	1
10	Rapid Elemental Extraction from Ordered and Disordered Solutes by Acoustically-Stimulated Dissolution. <i>ACS Engineering Au</i> ,		1
9	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
8	Effective Constitutive Response of Sustainable Next Generation Infrastructure Materials through High-Fidelity Experiments and Numerical Simulation. <i>Procedia Engineering</i> , 2017 , 173, 1258-1265		
7	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	
6	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	
5	Multiphysics design optimization model for structural walls incorporating phase-change materials. <i>Engineering Optimization</i> , 2015 , 47, 308-327	2	
4	STRUCTURE AND PROPERTIES OF NaOH ACTIVATED CEMENT FREE BINDER (CFB) CONCRETES 2009 , 169-182		
3	Mathematical morphology-based point cloud analysis techniques for geometry assessment of 3D printed concrete elements. <i>Additive Manufacturing</i> , 2021 , 49, 102499	6.1	
2	Relating print velocity and extrusion characteristics of 3D-printable cementitious binders: Implications towards testing methods. <i>Additive Manufacturing</i> , 2021 , 46, 102127	6.1	
1	Effect of Layer Height on Tensile Stress Distribution and Crack Width-and-Propagation in 3D Printed Fiber-Reinforced Flexural Elements 2021 , 13-26		