Jay Sanjayan

List of Publications by Year
in descending order

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342 papers	24,901 citations	6124 83 h-index	11608 140 g-index
419 all docs	419 docs citations	419 times ranked	10603 citing authors

#	Article	IF	Citations
1	Digital fabrication of eco-friendly ultra-high performance fiber-reinforced concrete. Cement and Concrete Composites, 2022, 125, 104281.	4.6	34
2	Expansive cementitious materials to improve micro-cable reinforcement bond in 3D concrete printing. Cement and Concrete Composites, 2022, 125, 104304.	4.6	14
3	Short-duration near-nozzle mixing for 3D concrete printing. Cement and Concrete Research, 2022, 151, 106616.	4.6	17
4	Analysis of theoretical carbon dioxide emissions from cement production: Methodology and application. Journal of Cleaner Production, 2022, 334, 130270.	4.6	98
5	Waste Clay Brick Binders for Rigid Pavement Subbase and Base Concretes. Lecture Notes in Civil Engineering, 2022, , 903-917.	0.3	4
6	Enhancing the chemical foaming process using superplasticizer in aerated geopolymer concrete. Construction and Building Materials, 2022, 324, 126535.	3.2	18
7	Set on demand geopolymer using print head mixing for 3D concrete printing. Cement and Concrete Composites, 2022, 128, 104451.	4.6	24
8	Properties of additively manufactured geopolymer incorporating mineral wollastonite microfibers. Construction and Building Materials, 2022, 331, 127282.	3.2	18
9	Synthesis and performance of intumescent alkali-activated rice husk ash for fire-resistant applications. Journal of Building Engineering, 2022, 51, 104281.	1.6	5
10	Lap Joint Reinforcement for 3D Concrete Printing. Journal of Structural Engineering, 2022, 148, .	1.7	8
11	Study of particle packing and paste rheology in alkali activated mixtures to meet the rheology demands of 3D Concrete Printing. Cement and Concrete Composites, 2022, 131, 104581.	4.6	16
12	Waste Clay Bricks as a Geopolymer Binder for Pavement Construction. Sustainability, 2022, 14, 6456.	1.6	14
13	Effect of steel slag on 3D concrete printing of geopolymer with quaternary binders. Ceramics International, 2022, 48, 26233-26247.	2.3	17
14	In-line activation of cementitious materials for 3D concrete printing. Cement and Concrete Composites, 2022, 131, 104598.	4.6	15
15	Experimental investigation of the impact of design and control parameters of water-based active phase change materials system on thermal energy storage. Energy and Buildings, 2022, 268, 112226.	3.1	3
16	Effects of Cement Mortar Characteristics on Aggregate-Bed 3D Concrete Printing. Additive Manufacturing, 2022, , 103024.	1.7	1
17	Effect of fly ash and slag on properties of normal and high strength concrete including fracture energy by wedge splitting test: Experimental and numerical investigations. Construction and Building Materials, 2021, 271, 121553.	3.2	19
18	Progress, current thinking and challenges in geopolymer foam concrete technology. Cement and Concrete Composites, 2021, 116, 103886.	4.6	109

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19	Vibration induced active rheology control for 3D concrete printing. Cement and Concrete Research, 2021, 140, 106293.	4.6	52
20	Influence of recycled concrete aggregate on the foam stability of aerated geopolymer concrete. Construction and Building Materials, 2021, 271, 121850.	3.2	36
21	Evaluation of alkalinity changes and carbonation of geopolymer concrete exposed to wetting and drying. Journal of Building Engineering, 2021, 35, 102029.	1.6	18
22	Effect of alkali reactions on the rheology of one-part 3D printable geopolymer concrete. Cement and Concrete Composites, 2021, 116, 103899.	4.6	95
23	Comparison of Rheology Measurement Techniques Used in 3D Concrete Printing Applications. Lecture Notes in Civil Engineering, 2021, , 261-273.	0.3	6
24	Pathways to Commercialisation for Brown Coal Fly Ash-Based Geopolymer Concrete in Australia. Sustainability, 2021, 13, 4350.	1.6	8
25	Durability performance of fly ash-based geopolymer concrete buried in saline environment for 10Âyears. Construction and Building Materials, 2021, 281, 122596.	3.2	35
26	Integrating reinforcement in digital fabrication with concrete: A review and classification framework. Cement and Concrete Composites, 2021, 119, 103964.	4.6	101
27	Fiber orientation effects on ultra-high performance concrete formed by 3D printing. Cement and Concrete Research, 2021, 143, 106384.	4.6	113
28	Reinforcement method for 3D concrete printing using paste-coated bar penetrations. Automation in Construction, 2021, 127, 103694.	4.8	23
29	3D printing eco-friendly concrete containing under-utilised and waste solids as aggregates. Cement and Concrete Composites, 2021, 120, 104037.	4.6	105
30	The effect of chloride ingress in reinforced geopolymer concrete exposed in the marine environment. Journal of Building Engineering, 2021, 39, 102281.	1.6	24
31	Extrusion rheometer for 3D concrete printing. Cement and Concrete Composites, 2021, 121, 104075.	4.6	30
32	Synthesis and properties of thermally enhanced aerated geopolymer concrete using form-stable phase change composite. Journal of Building Engineering, 2021, 40, 102756.	1.6	17
33	An experimental investigation on the flexural and wear properties of multiscale nanoclay/basalt fiber/epoxy composites. Polymer Composites, 2021, 42, 5755-5762.	2.3	8
34	Ambient temperature cured â€˜just-add-waterâ€™ geopolymer for 3D concrete printing applications. Cement and Concrete Composites, 2021, 121, 104060.	4.6	72
35	Collapse of fresh foam concrete: Mechanisms and influencing parameters. Cement and Concrete Composites, 2021, 122, 104151.	4.6	33
36	Retrofitting Building Envelope Using Phase Change Materials and Aerogel Render for Adaptation to Extreme Heatwave: A Multi-Objective Analysis Considering Heat Stress, Energy, Environment, and Cost. Sustainability, 2021, 13, 10716.	1.6	15

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37	Technologies for improving buildability in 3D concrete printing. Cement and Concrete Composites, 2021, 122, 104144.	4.6	79
38	Pore gradation effect on Portland cement and geopolymer concretes. Cement and Concrete Composites, 2021, 122, 104141.	4.6	11
39	Formulating eco-friendly geopolymer foam concrete by alkali-activation of ground brick waste. Journal of Cleaner Production, 2021, 325, 129180.	4.6	52
40	Concrete 3D printing of lightweight elements using hollow-core extrusion of filaments. Cement and Concrete Composites, 2021, 123, 104220.	4.6	32
41	Investigation of waste clay brick as partial replacement of geopolymer binders for rigid pavement application. Construction and Building Materials, 2021, 305, 124787.	3.2	33
42	Microstructural characterization of 3D printed concrete. Journal of Building Engineering, 2021, 44, 102948.	1.6	31
43	Energy and Carbon Emission. , 2021, , 75-92.		0
44	Resilience and Adaptation in Buildings. , 2021, , 145-166.		0
45	Mesh reinforcing method for 3D Concrete Printing. Automation in Construction, 2020, 109, 102992.	4.8	161
46	Life-cycle cost analysis of building wall and insulation materials. Journal of Building Physics, 2020, 43, 428-455.	1.2	34
47	Yield stress criteria to assess the buildability of 3D concrete printing. Construction and Building Materials, 2020, 240, 117989.	3.2	132
48	Properties of one-part geopolymer incorporating wollastonite as partial replacement of geopolymer precursor or sand. Materials Letters, 2020, 263, 127236.	1.3	25
49	Dimensional accuracy, flowability, wettability, and porosity in inkjet 3DP for gypsum and cement mortar materials. Automation in Construction, 2020, 110, 102964.	4.8	54
50	Bond properties of reinforcing bar penetrations in 3D concrete printing. Automation in Construction, 2020, 120, 103394.	4.8	55
51	Enhancing the mechanical and thermal properties of aerated geopolymer concrete using porous lightweight aggregates. Construction and Building Materials, 2020, 264, 120713.	3.2	48
52	Effect of yield stress development on the foam-stability of aerated geopolymer concrete. Cement and Concrete Research, 2020, 138, 106233.	4.6	79
53	Comparative analysis of building insulation material properties and performance. Renewable and Sustainable Energy Reviews, 2020, 131, 110038.	8.2	180
54	Aggregate-bed 3D concrete printing with cement paste binder. Cement and Concrete Research, 2020, 136, 106169.	4.6	60

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55	Strength and ductility enhancement of 3D printing structure reinforced by embedding continuous micro-cables. Construction and Building Materials, 2020, 264, 120196.	3.2	31
56	Insulation failure of lightweight composite sandwich panels exposed to flame. Fire and Materials, 2020, 44, 943-952.	0.9	3
57	Effect of microwave heating on interlayer bonding and buildability of geopolymer 3D concrete printing. Construction and Building Materials, 2020, 265, 120786.	3.2	86
58	Development of 3D-printable ultra-high performance fiber-reinforced concrete for digital construction. Construction and Building Materials, 2020, 257, 119546.	3.2	167
59	Self-cementation solidification of heavy metals in lead-zinc smelting slag through alkali-activated materials. Construction and Building Materials, 2020, 249, 118756.	3.2	53
60	Steel fibres reinforced 3D printed concrete: Influence of fibre sizes on mechanical performance. Construction and Building Materials, 2020, 250, 118785.	3.2	130
61	Properties of 3D-Printable Ductile Fibre-Reinforced Geopolymer Composite for Digital Construction Applications. RILEM Bookseries, 2020, , 363-372.	0.2	9
62	Characterizing Extrudability for 3D Concrete Printing Using Discrete Element Simulations. RILEM Bookseries, 2020, , 290-300.	0.2	8
63	Penetration Reinforcing Method for 3D Concrete Printing. RILEM Bookseries, 2020, , 680-690.	0.2	10
64	Post-processing Techniques to Enhance Strength of Portland Cement Mortar Digitally Fabricated Using Powder-Based 3D Printing Process. RILEM Bookseries, 2020, , 457-464.	0.2	4
65	Enhancing Strength of Powder-Based 3D Printed Geopolymers for Digital Construction Applications. RILEM Bookseries, 2020, , 417-425.	0.2	2
66	Nutritional Evaluation of Insectâ€™s Pupae-Larvae and its Utilization in Poultry Compound Feed. Open Civil Engineering Journal, 2020, 14, 1-8.	0.4	6
67	Quantitative Evaluation of Orientation of Steel Fibers in 3D-Printed Ultra-High Performance Concrete. RILEM Bookseries, 2020, , 389-397.	0.2	1
68	Impact of Particle Size and Grading on Aggregate-Bed 3D Concrete Printing. RILEM Bookseries, 2020, , 557-563.	0.2	1
69	Mechanical Properties Evaluation of Functionally Layered Cement Composites. Open Civil Engineering Journal, 2020, 14, 1-9.	0.4	1
70	Development of 3D printable engineered cementitious composites with ultra-high tensile ductility for digital construction. Materials and Design, 2019, 181, 108088.	3.3	157
71	Post-processing Methods to Improve Strength of Particle-Bed 3D Printed Geopolymer for Digital Construction Applications. Frontiers in Materials, 2019, 6, .	1.2	21
72	Solidification/stabilization of municipal solid waste incineration fly ash using uncalcined coal gangueâ€“based alkali-activated cementitious materials. Environmental Science and Pollution Research, 2019, 26, 25609-25620.	2.7	53

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73	Properties of high-calcium and low-calcium fly ash combination geopolymer mortar containing recycled aggregate. Heliyon, 2019, 5, e02513.	1.4	61
74	Direct shear test for the assessment of rheological parameters of concrete for 3D printing applications. Materials and Structures/Materiaux Et Constructions, 2019, 52, 1.	1.3	66
75	Mechanical anisotropy of aligned fiber reinforced composite for extrusion-based 3D printing. Construction and Building Materials, 2019, 202, 770-783.	3.2	278
76	The use of machine learning in boron-based geopolymers: Function approximation of compressive strength by ANN and GP. Measurement: Journal of the International Measurement Confederation, 2019, 141, 241-249.	2.5	24
77	Performance of NSM FRP embedded in concrete under monotonic and fatigue loads: state-of-the-art review. Australian Journal of Structural Engineering, 2019, 20, 89-114.	0.4	9
78	Stress-strain relationship of cement mortar under triaxial compression. Construction and Building Materials, 2019, 220, 456-463.	3.2	27
79	Mechanical properties and durability of unconfined and confined geopolymer concrete with fiber reinforced polymers exposed to sulfuric acid. Construction and Building Materials, 2019, 215, 1015-1032.	3.2	58
80	Experimental Research on Using Form-stable PCM-Integrated Cementitious Composite for Reducing Overheating in Buildings. Buildings, 2019, 9, 57.	1.4	21
81	Method of enhancing interlayer bond strength in construction scale 3D printing with mortar by effective bond area amplification. Materials and Design, 2019, 169, 107684.	3.3	143
82	A state-of-the-art review: Near-surface mounted FRP composites for reinforced concrete structures. Construction and Building Materials, 2019, 209, 748-769.	3.2	76
83	Method of Optimisation for Ambient Temperature Cured Sustainable Geopolymers for 3D Printing Construction Applications. Materials, 2019, 12, 902.	1.3	80
84	Balancing Energy Efficiency and Heat Wave Resilience in Building Design. , 2019, , 329-349.		1
85	3D Concrete Printing for Construction Applications. , 2019, , 1-11.		40
86	Interlayer Strength of 3D Printed Concrete. , 2019, , 241-264.		31
87	Alkaline fused phosphate mine tailings for geopolymer mortar synthesis: Thermal stability, mechanical and microstructural properties. Journal of Non-Crystalline Solids, 2019, 511, 76-85.	1.5	94
88	Energy saving performance assessment and lessons learned from the operation of an active phase change materials system in a multi-storey building in Melbourne. Applied Energy, 2019, 238, 1582-1595.	5.1	53
89	Printability, accuracy and strength of geopolymer made using powder-based 3D printing for construction applications. Automation in Construction, 2019, 101, 179-189.	4.8	120
90	Thermal Performance of Hollow-Core Slab Ventilation System with Macro-Encapsulated Phase-Change Materials in Supply Air Duct. Buildings, 2019, 9, 51.	1.4	2

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91	Development of Powder-Based 3D Concrete Printing Using Geopolymers. , 2019, , 223-240.		5
92	A Comparative Study of Void Distribution Pattern on the Strength Development between OPC-Based and Geopolymer Concrete. Advances in Materials Science and Engineering, 2019, 2019, 1-7.	1.0	4
93	Efficiency of Different Superplasticizers and Retarders on Properties of â€˜One-Partâ€™ Fly Ash-Slag Blended Geopolymers with Different Activators. Materials, 2019, 12, 3410.	1.3	44
94	Fresh and Hardened Properties of 3D Printable Geopolymer Cured in Ambient Temperature. RILEM Bookseries, 2019, , 3-11.	0.2	18
95	Method of Enhancing Interlayer Bond Strength in 3D Concrete Printing. RILEM Bookseries, 2019, , 148-156.	0.2	10
96	Compressive Strength and Dimensional Accuracy of Portland Cement Mortar Made Using Powder-Based 3D Printing for Construction Applications. RILEM Bookseries, 2019, , 245-254.	0.2	10
97	Hardened Properties of 3D Printable â€˜One-Partâ€™ Geopolymer for Construction Applications. RILEM Bookseries, 2019, , 190-199.	0.2	13
98	Effects of various carbon additives on the thermal storage performance of form-stable PCM integrated cementitious composites. Applied Thermal Engineering, 2019, 148, 491-501.	3.0	50
99	A comparison of the effects of pozzolanic binders on the hardened-state properties of high-strength cementitious composites reinforced with waste tire fibers. Composites Part B: Engineering, 2019, 162, 134-153.	5.9	30
100	Behavior of fly ash geopolymer as fire resistant coating for timber. Journal of Sustainable Cement-Based Materials, 2019, 8, 259-274.	1.7	18
101	Prediction of the mean grain size of MA-synthesized nanopowders by artificial neural networks. Neural Computing and Applications, 2019, 31, 723-732.	3.2	1
102	Mechanical Properties of Cement-Based Materials and Effect of Elevated Temperature on 3-D Printed Mortar Specimens in Inkjet 3-D Printing. ACI Materials Journal, 2019, 116, .	0.3	8
103	Use of data mining in the corrosion classification of pipelines in Naphtha Hydro-Threating Unit (NHT). Pipeline Science and Technology, 2019, 3, 14-21.	0.4	3
104	Strength evaluation by using polycarboxylate superplasticizer and solidification efficiency of Cr 6+ , Pb 2+ and Cd 2+ in composite based geopolymer. Journal of Cleaner Production, 2018, 188, 807-815.	4.6	71
105	Effect of surface moisture on inter-layer strength of 3D printed concrete. Construction and Building Materials, 2018, 172, 468-475.	3.2	356
106	Microstructural study of environmentally friendly boroaluminosilicate geopolymers. Journal of Cleaner Production, 2018, 189, 805-812.	4.6	33
107	Development of a high strength fly ash-based geopolymer in short time by using microwave curing. Ceramics International, 2018, 44, 8216-8222.	2.3	71
108	A mixed methods design for building occupantsâ€™ energy behavior research. Energy and Buildings, 2018, 166, 239-249.	3.1	42

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109	Durability Performance of Precast Fly Ashâ€“Based Geopolymer Concrete under Atmospheric Exposure Conditions. Journal of Materials in Civil Engineering, 2018, 30, .	1.3	45
110	Effects of Significant Variables on Compressive Strength of Soil-Fly Ash Geopolymer: Variable Analytical Approach Based on Neural Networks and Genetic Programming. Journal of Materials in Civil Engineering, 2018, 30, .	1.3	34
111	Thermal enhancement of paraffin/hydrophobic expanded perlite granular phase change composite using graphene nanoplatelets. Energy and Buildings, 2018, 169, 206-215.	3.1	48
112	Inclusion of graphene oxide in cementitious composites: state-of-the-art review. Australian Journal of Civil Engineering, 2018, 16, 81-95.	0.6	22
113	The role of graphene oxide in limited long-term carbonation of cement-based matrix. Construction and Building Materials, 2018, 168, 858-866.	3.2	56
114	Improvement of mechanical properties by incorporating graphene oxide into cement mortar. Mechanics of Advanced Materials and Structures, 2018, 25, 1313-1322.	1.5	64
115	Specimens size, aggregate size, and aggregate type effect on spalling of concrete in fire. Fire and Materials, 2018, 42, 59-68.	0.9	24
116	Investigation on dispersion of graphene oxide in cement composite using different surfactant treatments. Construction and Building Materials, 2018, 161, 519-527.	3.2	167
117	Waste solidification/stabilization of leadâ€“zinc slag by utilizing fly ash based geopolymers. RSC Advances, 2018, 8, 32956-32965.	1.7	36
118	Effect of Polypropylene Fibre Addition on Properties of Geopolymers Made by 3D Printing for Digital Construction. Materials, 2018, 11, 2352.	1.3	171
119	A Feasibility Study on HPMC-Improved Sulphoaluminate Cement for 3D Printing. Materials, 2018, 11, 2415.	1.3	27
120	Review of 10 years research on building energy performance gap: Life-cycle and stakeholder perspectives. Energy and Buildings, 2018, 178, 165-181.	3.1	143
121	Mitigation of heat stress risks through building energy efficiency upgrade: a case study of Melbourne, Australia. Australian Journal of Civil Engineering, 2018, 16, 64-78.	0.6	11
122	Methods of enhancing strength of geopolymer produced from powder-based 3D printing process. Materials Letters, 2018, 227, 281-283.	1.3	66
123	Strength Development of Soilâ€“Fly Ash Geopolymer: Assessment of Soil, Fly Ash, Alkali Activators, and Water. Journal of Materials in Civil Engineering, 2018, 30, .	1.3	59
124	Mechanical properties of layered geopolymer structures applicable in concrete 3D-printing. Construction and Building Materials, 2018, 176, 690-699.	3.2	137
125	Mechanical and thermal properties of lightweight geopolymer mortar incorporating crumb rubber. Journal of Cleaner Production, 2018, 195, 1069-1080.	4.6	127
126	Alternative Cementitious Materials and Their Composites. Advances in Materials Science and Engineering, 2018, 2018, 1-2.	1.0	1

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127	Fibre-reinforced boroaluminosilicate geopolymers: A comparative study. Ceramics International, 2018, 44, 16599-16605.	2.3	23
128	Molecular simulation of water and chloride ion diffusion in nanopores of alkali-activated aluminosilicate structures. Ceramics International, 2018, 44, 20723-20731.	2.3	20
129	The application of natural sedimentation for the dispersion of polyacrylamide microspheres. Journal of Dispersion Science and Technology, 2017, 38, 75-81.	1.3	0
130	Thermal performance of buildings integrated with phase change materials to reduce heat stress risks during extreme heatwave events. Applied Energy, 2017, 194, 410-421.	5.1	181
131	High ductile behavior of a polyethylene fiber-reinforced one-part geopolymer composite: A micromechanics-based investigation. Archives of Civil and Mechanical Engineering, 2017, 17, 555-563.	1.9	137
132	Assessing the feasibility of integrating form-stable phase change material composites with cementitious composites and prevention of PCM leakage. Materials Letters, 2017, 192, 88-91.	1.3	64
133	Microstructure, electrical and mechanical properties of steel fibres reinforced cement mortars with partial metakaolin and limestone addition. Construction and Building Materials, 2017, 135, 8-20.	3.2	27
134	Regulating the chemical foaming reaction to control the porosity of geopolymer foams. Materials and Design, 2017, 120, 255-265.	3.3	116
135	Modified 3D printed powder to cement-based material and mechanical properties of cement scaffold used in 3D printing. Construction and Building Materials, 2017, 138, 398-409.	3.2	146
136	Performance of geopolymer high strength concrete wall panels and cylinders when exposed to a hydrocarbon fire. Construction and Building Materials, 2017, 137, 195-207.	3.2	44
137	Micromechanics constitutive modelling and optimization of strain hardening geopolymer composite. Ceramics International, 2017, 43, 5999-6007.	2.3	44
138	Effects of graphene oxide agglomerates on workability, hydration, microstructure and compressive strength of cement paste. Construction and Building Materials, 2017, 145, 402-410.	3.2	248
139	Evaluating the passive and free cooling application methods of phase change materials in residential buildings: A comparative study. Energy and Buildings, 2017, 148, 238-256.	3.1	35
140	Alkali activated materials vs geopolymers: Role of boron as an eco-friendly replacement. Construction and Building Materials, 2017, 146, 297-302.	3.2	42
141	A Comparative Study on the Effectiveness of Passive and Free Cooling Application Methods of Phase Change Materials for Energy Efficient Retrofitting in Residential Buildings. Procedia Engineering, 2017, 180, 993-1002.	1.2	22
142	Thermal performance assessment of phase change material integrated cementitious composites in buildings: Experimental and numerical approach. Applied Energy, 2017, 207, 654-664.	5.1	92
143	Experimental and Numerical Study on Energy Performance of Buildings Integrated with Phase Change Materials. Energy Procedia, 2017, 105, 2214-2219.	1.8	7
144	The behaviour of iron in geopolymer under thermal shock. Construction and Building Materials, 2017, 150, 248-251.	3.2	11

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145	Heat Transfer Performance Enhancement of Paraffin/Expanded Perlite Phase Change Composites with Graphene Nano-platelets. Energy Procedia, 2017, 105, 4866-4871.	1.8	41
146	Fly ash-based boroaluminosilicate geopolymers: Experimental and molecular simulations. Ceramics International, 2017, 43, 4119-4126.	2.3	57
147	Micromechanics-based investigation of a sustainable ambient temperature cured one-part strain hardening geopolymer composite. Construction and Building Materials, 2017, 131, 552-563.	3.2	137
148	Chloride ingress and steel corrosion in geopolymer concrete based on long term tests. Materials and Design, 2017, 116, 287-299.	3.3	142
149	Development of thermal energy storage cementitious composites (TESC) containing a novel paraffin/hydrophobic expanded perlite composite phase change material. Solar Energy, 2017, 158, 626-635.	2.9	71
150	Inhibition of carbonation attack in cement-based matrix due to adding graphene oxide. Australian Journal of Civil Engineering, 2017, 15, 20-31.	0.6	12
151	Effects of graphene oxide in enhancing the performance of concrete exposed to high-temperature. Australian Journal of Civil Engineering, 2017, 15, 61-71.	0.6	55
152	The application of sodium hydroxide and anhydrous borax as composite activator of class F fly ash for extending setting time. Fuel, 2017, 206, 534-540.	3.4	31
153	Thermal Energy Storage Enhancement of Lightweight Cement Mortars with the Application of Phase Change Materials. Procedia Engineering, 2017, 180, 1170-1177.	1.2	37
154	Durability of lowâ€‘calcium fly ash based geopolymer concrete culvert in a saline environment. Cement and Concrete Research, 2017, 100, 297-310.	4.6	121
155	Converting hydration heat to achieve cement mixture with early strength and low hydrating-thermal dissipation. Construction and Building Materials, 2017, 151, 113-118.	3.2	21
156	Thermal and mechanical properties of sustainable lightweight strain hardening geopolymer composites. Archives of Civil and Mechanical Engineering, 2017, 17, 55-64.	1.9	88
157	Effect of Aggregate Size on the Spalling of High-Strength Wall Panels Exposed to Hydrocarbon Fire. Journal of Materials in Civil Engineering, 2017, 29, .	1.3	9
158	Behavior Change of Building Users and Energy Consumption. , 2017, , 189-196.		4
159	Boroaluminosilicate Geopolymers. , 2017, , 389-412.		0
160	Greenhouse Gas Emissions Due to Concrete Manufacture. , 2017, , 1-16.		15
161	Microscale investigation of fiber-matrix interface properties of strain-hardening geopolymer composite. Ceramics International, 2017, 43, 15616-15625.	2.3	55
162	Graphene Oxide as Additive to Replace Using Air-Entraining Agents. ACI Materials Journal, 2017, 114, .	0.3	2

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163	Effect of Delay Time on the Mechanical Properties of Extrusion-Based 3D Printed Concrete. , 2017, , .		15
164	Current Progress of 3D Concrete Printing Technologies. , 2017, , .		93
165	Application of Phase Change Materials to Reduce Heat Related Risks During Extreme Heat Waves in Australian Dwellings. Energy Procedia, 2016, 88, 725-731.	1.8	8
166	Amphoteric ion polymer as fluid loss additive for phosphoaluminate cement in the presence of sodium hexametaphosphate. Journal of Natural Gas Science and Engineering, 2016, 31, 474-480.	2.1	19
167	Parametric analysis for performance enhancement of phase change materials in naturally ventilated buildings. Energy and Buildings, 2016, 124, 35-45.	3.1	57
168	Carbonation of a blended slag-fly ash geopolymer concrete in field conditions after 8 years. Construction and Building Materials, 2016, 125, 661-669.	3.2	107
169	Investigation of PCM as retrofitting option to enhance occupant thermal comfort in a modern residential building. Energy and Buildings, 2016, 133, 217-229.	3.1	107
170	Durability Performance of Concrete Structures Built with Low Carbon Construction Materials. Energy Procedia, 2016, 88, 794-799.	1.8	13
171	Method of formulating geopolymer for 3D printing for construction applications. Materials and Design, 2016, 110, 382-390.	3.3	258
172	Development of granular expanded perlite/paraffin phase change material composites and prevention of leakage. Solar Energy, 2016, 137, 179-188.	2.9	100
173	Thermal effects of activators on the setting time and rate of workability loss of geopolymers. Ceramics International, 2016, 42, 19257-19268.	2.3	34
174	Incorporation of graphene oxide and silica fume into cement paste: A study of dispersion and compressive strength. Construction and Building Materials, 2016, 123, 327-335.	3.2	235
175	The Spalling of Geopolymer High Strength Concrete Wall Panels and Cylinders Under Hydrocarbon Fire. MATEC Web of Conferences, 2016, 47, 02005.	0.1	6
176	Assessment of thermal cracking in concrete roof tiles. Materials and Design, 2016, 107, 470-477.	3.3	8
177	Strength Development and Microfabric Structure of Construction and Demolition Aggregates Stabilized with Fly Ashâ€“Based Geopolymers. Journal of Materials in Civil Engineering, 2016, 28, .	1.3	37
178	Matrix design of strain hardening fiber reinforced engineered geopolymer composite. Composites Part B: Engineering, 2016, 89, 253-265.	5.9	125
179	The properties of fly ash based geopolymer mortars made with dune sand. Materials and Design, 2016, 92, 571-578.	3.3	88
180	Suitability of Sarawak and Gladstone fly ash to produce geopolymers: A physical, chemical, mechanical, mineralogical and microstructural analysis. Ceramics International, 2016, 42, 9613-9620.	2.3	48

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181	Graphene Oxide Impact on Hardened Cement Expressed in Enhanced Freezeâ€“Thaw Resistance. Journal of Materials in Civil Engineering, 2016, 28, .	1.3	113
182	Stabilization of Demolition Materials for Pavement Base/Subbase Applications Using Fly Ash and Slag Geopolymers: Laboratory Investigation. Journal of Materials in Civil Engineering, 2016, 28, .	1.3	107
183	The application of coated superabsorbent polymer in well cement for plugging the microcrack. Construction and Building Materials, 2016, 104, 72-84.	3.2	36
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