

Sayanthan Ramakrishnan

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.

37
papers

1,031
citations

19
h-index

32
g-index

38
ext. papers

1,396
ext. citations

6.6
avg, IF

5.44
L-index

#	Paper	IF	Citations
37	Enhancing the chemical foaming process using superplasticizer in aerated geopolymer concrete. <i>Construction and Building Materials</i> , 2022 , 324, 126535	6.7	1
36	Set on demand geopolymer using print head mixing for 3D concrete printing. <i>Cement and Concrete Composites</i> , 2022 , 128, 104451	8.6	1
35	Synthesis and performance of intumescent alkali-activated rice husk ash for fire-resistant applications. <i>Journal of Building Engineering</i> , 2022 , 51, 104281	5.2	
34	In-line activation of cementitious materials for 3D concrete printing. <i>Cement and Concrete Composites</i> , 2022 , 131, 104598	8.6	0
33	Set-On Demand Concrete by Activating Encapsulated Accelerator for 3D Printing. <i>RILEM Bookseries</i> , 2022 , 305-310	0.5	0
32	Fresh and Hardened Properties of 3D Printable Foam Concrete Containing Porous Aggregates. <i>RILEM Bookseries</i> , 2022 , 65-70	0.5	0
31	Effect of hydrophobic surface-modified fine aggregates on efflorescence control in geopolymer. <i>Cement and Concrete Composites</i> , 2021 , 104337	8.6	2
30	Energy and Carbon Emission 2021 , 75-92		
29	Resilience and Adaptation in Buildings 2021 , 145-166		
28	Progress, current thinking and challenges in geopolymer foam concrete technology. <i>Cement and Concrete Composites</i> , 2021 , 116, 103886	8.6	34
27	Influence of recycled concrete aggregate on the foam stability of aerated geopolymer concrete. <i>Construction and Building Materials</i> , 2021 , 271, 121850	6.7	15
26	Effect of alkali reactions on the rheology of one-part 3D printable geopolymer concrete. <i>Cement and Concrete Composites</i> , 2021 , 116, 103899	8.6	29
25	Synthesis and properties of thermally enhanced aerated geopolymer concrete using form-stable phase change composite. <i>Journal of Building Engineering</i> , 2021 , 40, 102756	5.2	7
24	Collapse of fresh foam concrete: Mechanisms and influencing parameters. <i>Cement and Concrete Composites</i> , 2021 , 122, 104151	8.6	10
23	Technologies for improving buildability in 3D concrete printing. <i>Cement and Concrete Composites</i> , 2021 , 122, 104144	8.6	20
22	Formulating eco-friendly geopolymer foam concrete by alkali-activation of ground brick waste. <i>Journal of Cleaner Production</i> , 2021 , 325, 129180	10.3	9
21	Concrete 3D printing of lightweight elements using hollow-core extrusion of filaments. <i>Cement and Concrete Composites</i> , 2021 , 123, 104220	8.6	5

20	Enhancing the mechanical and thermal properties of aerated geopolymer concrete using porous lightweight aggregates. <i>Construction and Building Materials</i> , 2020 , 264, 120713	6.7	20
19	Effect of yield stress development on the foam-stability of aerated geopolymer concrete. <i>Cement and Concrete Research</i> , 2020 , 138, 106233	10.3	25
18	Effect of microwave heating on interlayer bonding and buildability of geopolymer 3D concrete printing. <i>Construction and Building Materials</i> , 2020 , 265, 120786	6.7	37
17	Experimental Research on Using Form-stable PCM-Integrated Cementitious Composite for Reducing Overheating in Buildings. <i>Buildings</i> , 2019 , 9, 57	3.2	12
16	Energy saving performance assessment and lessons learned from the operation of an active phase change materials system in a multi-storey building in Melbourne. <i>Applied Energy</i> , 2019 , 238, 1582-1595	10.7	36
15	Effects of various carbon additives on the thermal storage performance of form-stable PCM integrated cementitious composites. <i>Applied Thermal Engineering</i> , 2019 , 148, 491-501	5.8	38
14	Thermal enhancement of paraffin/hydrophobic expanded perlite granular phase change composite using graphene nanoplatelets. <i>Energy and Buildings</i> , 2018 , 169, 206-215	7	37
13	Thermal performance of buildings integrated with phase change materials to reduce heat stress risks during extreme heatwave events. <i>Applied Energy</i> , 2017 , 194, 410-421	10.7	137
12	Assessing the feasibility of integrating form-stable phase change material composites with cementitious composites and prevention of PCM leakage. <i>Materials Letters</i> , 2017 , 192, 88-91	3.3	48
11	Evaluating the passive and free cooling application methods of phase change materials in residential buildings: A comparative study. <i>Energy and Buildings</i> , 2017 , 148, 238-256	7	28
10	A Comparative Study on the Effectiveness of Passive and Free Cooling Application Methods of Phase Change Materials for Energy Efficient Retrofitting in Residential Buildings. <i>Procedia Engineering</i> , 2017 , 180, 993-1002		15
9	Thermal performance assessment of phase change material integrated cementitious composites in buildings: Experimental and numerical approach. <i>Applied Energy</i> , 2017 , 207, 654-664	10.7	69
8	Experimental and Numerical Study on Energy Performance of Buildings Integrated with Phase Change Materials. <i>Energy Procedia</i> , 2017 , 105, 2214-2219	2.3	4
7	Heat Transfer Performance Enhancement of Paraffin/Expanded Perlite Phase Change Composites with Graphene Nano-platelets. <i>Energy Procedia</i> , 2017 , 105, 4866-4871	2.3	29
6	Development of thermal energy storage cementitious composites (TESC) containing a novel paraffin/hydrophobic expanded perlite composite phase change material. <i>Solar Energy</i> , 2017 , 158, 626-635	6.8	50
5	Thermal Energy Storage Enhancement of Lightweight Cement Mortars with the Application of Phase Change Materials. <i>Procedia Engineering</i> , 2017 , 180, 1170-1177		32
4	Thermal and mechanical properties of sustainable lightweight strain hardening geopolymer composites. <i>Archives of Civil and Mechanical Engineering</i> , 2017 , 17, 55-64	3.4	50
3	Application of Phase Change Materials to Reduce Heat Related Risks During Extreme Heat Waves in Australian Dwellings. <i>Energy Procedia</i> , 2016 , 88, 725-731	2.3	7

2	Parametric analysis for performance enhancement of phase change materials in naturally ventilated buildings. <i>Energy and Buildings</i> , 2016 , 124, 35-45	7	39
1	A novel paraffin/expanded perlite composite phase change material for prevention of PCM leakage in cementitious composites. <i>Applied Energy</i> , 2015 , 157, 85-94	10.7	185