

Sayanthan Ramakrishnan

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	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
36	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
35	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
34	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
33	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
32	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
31	Parametric analysis for performance enhancement of phase change materials in naturally ventilated buildings. <i>Energy and Buildings</i> , 2016 , 124, 35-45	7	39
30	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
29	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
28	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
27	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
26	Progress, current thinking and challenges in geopolymer foam concrete technology. <i>Cement and Concrete Composites</i> , 2021 , 116, 103886	8.6	34
25	Thermal Energy Storage Enhancement of Lightweight Cement Mortars with the Application of Phase Change Materials. <i>Procedia Engineering</i> , 2017 , 180, 1170-1177		32
24	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
23	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
22	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
21	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

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	Technologies for improving buildability in 3D concrete printing. <i>Cement and Concrete Composites</i> , 2021 , 122, 104144	8.6	20
18	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
17	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
16	Experimental Research on Using Form-stable PCM-Integrated Cementitious Composite for Reducing Overheating in Buildings. <i>Buildings</i> , 2019 , 9, 57	3.2	12
15	Collapse of fresh foam concrete: Mechanisms and influencing parameters. <i>Cement and Concrete Composites</i> , 2021 , 122, 104151	8.6	10
14	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
13	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
12	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
11	Concrete 3D printing of lightweight elements using hollow-core extrusion of filaments. <i>Cement and Concrete Composites</i> , 2021 , 123, 104220	8.6	5
10	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
9	Effect of hydrophobic surface-modified fine aggregates on efflorescence control in geopolymer. <i>Cement and Concrete Composites</i> , 2021 , 104337	8.6	2
8	Enhancing the chemical foaming process using superplasticizer in aerated geopolymer concrete. <i>Construction and Building Materials</i> , 2022 , 324, 126535	6.7	1
7	Set on demand geopolymer using print head mixing for 3D concrete printing. <i>Cement and Concrete Composites</i> , 2022 , 128, 104451	8.6	1
6	In-line activation of cementitious materials for 3D concrete printing. <i>Cement and Concrete Composites</i> , 2022 , 131, 104598	8.6	0
5	Set-On Demand Concrete by Activating Encapsulated Accelerator for 3D Printing. <i>RILEM Bookseries</i> , 2022 , 305-310	0.5	0
4	Fresh and Hardened Properties of 3D Printable Foam Concrete Containing Porous Aggregates. <i>RILEM Bookseries</i> , 2022 , 65-70	0.5	0
3	Energy and Carbon Emission 2021 , 75-92		

2 Resilience and Adaptation in Buildings **2021**, 145-166

1 Synthesis and performance of intumescent alkali-activated rice husk ash for fire-resistant applications. *Journal of Building Engineering*, **2022**, 51, 104281

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