Seyed Hamidreza Ghaffar

List of Publications by Year
in descending order

41 papers	2,001 citations	257101 24 h-index	301761 39 g-index
42 all docs	42 docs citations	42 times ranked	2139 citing authors

#	Article	IF	Citations
1	Pathways to circular construction: An integrated management of construction and demolition waste for resource recovery. Journal of Cleaner Production, 2020, 244, 118710.	4.6	244
2	Structural analysis for lignin characteristics inÂbiomass straw. Biomass and Bioenergy, 2013, 57, 264-279.	2.9	221
3	Lignin in straw and its applications as an adhesive. International Journal of Adhesion and Adhesives, 2014, 48, 92-101.	1.4	197
4	Additive manufacturing technology and its implementation in construction as an eco-innovative solution. Automation in Construction, 2018, 93, 1-11.	4.8	192
5	Fracture and impact properties of short discrete jute fibre-reinforced cementitious composites. Materials & Design, 2013, 49, 35-47.	5.1	117
6	The influence of nano-additives in strengthening mechanical performance of 3D printed multi-binder geopolymer composites. Construction and Building Materials, 2020, 250, 118928.	3.2	102
7	Investigation of additive incorporation on rheological, microstructural and mechanical properties of 3D printable alkali-activated materials. Materials and Design, 2021, 202, 109574.	3.3	64
8	Effective extrusion-based 3D printing system design for cementitious-based materials. Results in Engineering, 2020, 6, 100135.	2.2	61
9	Reducing the emission of climate-altering substances in cementitious materials: A comparison between alkali-activated materials and Portland cement-based composites incorporating recycled tire rubber. Journal of Cleaner Production, 2022, 333, 130013.	4.6	56
10	Understanding the effects of hooked-end steel fibre geometry on the uniaxial tensile behaviour of self-compacting concrete. Construction and Building Materials, 2018, 178, 484-494.	3.2	55
11	Wheat straw pre-treatments using eco-friendly strategies for enhancing the tensile properties of bio-based polylactic acid composites. Industrial Crops and Products, 2020, 155, 112836.	2.5	49
12	Processes and materials used for direct writing technologies: A review. Results in Engineering, 2021, 11, 100257.	2.2	41
13	Differential behaviour of nodes and internodes of wheat straw with various pre-treatments. Biomass and Bioenergy, 2015, 83, 373-382.	2.9	40
14	Bioengineering for utilisation and bioconversion of straw biomass into bio-products. Industrial Crops and Products, 2015, 77, 262-274.	2.5	39
15	The effects of nano- and micro-sized additives on 3D printable cementitious and alkali-activated composites: a review. Applied Nanoscience (Switzerland), 2022, 12, 805-823.	1.6	39
16	Restructure of expanded cork with fumed silica as novel core materials for vacuum insulation panels. Composites Part B: Engineering, 2017, 127, 215-221.	5.9	36
17	Investigation of the interfacial bonding between flax/wool twine and various cementitious matrices in mortar composites. Construction and Building Materials, 2020, 239, 117833.	3.2	35
18	Development of low absorption and high-resistant sodium acetate concrete for severe environmental conditions. Construction and Building Materials, 2020, 230, 117057.	3.2	33

#	Article	IF	Citations
19	Toward a better understanding of multifunctional cement-based materials: The impact of graphite nanoplatelets (GNPs). Ceramics International, 2021, 47, 20019-20031.	2.3	32
20	Revealing the morphology and chemical distribution of nodes in wheat straw. Biomass and Bioenergy, 2015, 77, 123-134.	2.9	31
21	Development of highly efficient, renewable and durable alginate composite aerogels for oil/water separation. Surface and Coatings Technology, 2020, 388, 125551.	2.2	31
22	The Influence of Additives on the Interfacial Bonding Mechanisms Between Natural Fibre and Biopolymer Composites. Macromolecular Research, 2018, 26, 851-863.	1.0	29
23	Interfacial properties with bonding and failure mechanisms of wheat straw node and internode. Composites Part A: Applied Science and Manufacturing, 2017, 99, 102-112.	3.8	28
24	High performance cementitious nanocomposites: The effectiveness of nano-Graphite (nG). Construction and Building Materials, 2020, 259, 119687.	3.2	28
25	Comprehensive investigation of the long-term performance of internally integrated concrete pavement with sodium acetate. Results in Engineering, 2020, 6, 100110.	2.2	28
26	3D printable lightweight cementitious composites with incorporated waste glass aggregates and expanded microspheres â€“ Rheological, thermal and mechanical properties. Journal of Building Engineering, 2021, 44, 102718.	1.6	25
27	An aggregated understanding of physicochemical properties and surface functionalities of wheat straw node and internode. Industrial Crops and Products, 2017, 95, 207-215.	2.5	24
28	Properties of additively manufactured geopolymer incorporating mineral wollastonite microfibers. Construction and Building Materials, 2022, 331, 127282.	3.2	18
29	Detailed Analysis of Wheat Straw Node and Internode for Their Prospective Efficient Utilization. Journal of Agricultural and Food Chemistry, 2017, 65, 9069-9077.	2.4	16
30	Sustainable Valorisation of Silane-Treated Waste Glass Powder in Concrete Pavement. Sustainability, 2021, 13, 4949.	1.6	16
31	Boosting Portland cement-free composite performance via alkali-activation and reinforcement with pre-treated functionalised wheat straw. Industrial Crops and Products, 2022, 178, 114648.	2.5	15
32	Silicate impurities incorporation in calcium aluminate cement concrete: mechanical and microstructural assessment. Advances in Applied Ceramics, 2021, 120, 104-116.	0.6	10
33	Extra-Low Dosage Graphene Oxide Cementitious Nanocomposites: A Nano- to Macroscale Approach. Nanomaterials, 2021, 11, 3278.	1.9	10
34	Wheat straw biorefinery for agricultural waste valorisation. Green Materials, 2020, 8, 60-67.	1.1	9
35	High-performance polylactic acid compressed strawboard using pre-treated and functionalised wheat straw. Industrial Crops and Products, 2022, 184, 114996.	2.5	9
36	Microstructural, Mechanical and Physical Assessment of Portland Cement Concrete Pavement Modified by Sodium Acetate under Various Curing Conditions. Infrastructures, 2021, 6, 113.	1.4	8

#	Article	IF	Citations
37	Resistance of hydrophobic concrete with different moisture contents to advanced freezeâ€“thaw cycles. Structural Concrete, 2021, 22, E1050.	1.5	5
38	Critical evaluation of date palm sheath fibre characteristics as a reinforcement for developing sustainable cementitious composites from waste materials. Biomass Conversion and Biorefinery, 2024, 14, 6887-6902.	2.9	3
39	The potential for additive manufacturing to transform the construction industry. , 2020, , 155-187.		2
40	Introducing a novel concept of wick drainage in masonry structures. Journal of Building Engineering, 2022, 51, 104332.	1.6	2
41	What Is Industry 4.0?. , 2022, , 3-26.		1