Cementitious building materials reinforced with vegetable fibres: A review

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#	Paper	IF	Citations
360	Saccharification of Miscanthus x giganteus, incorporation of lignocellulosic by-product in cementitious matrix. **2011**, 334, 837.e1-837.e11		18
359	Potential of structural pozzolanic matrix–hemp fiber grid composites. *Construction and Building Materials*, **2011**, 25, 2867-2874	6.7	45
358	Use of plant aggregates in building ecomaterials. **2012**, 16, s17-s33		32
357	Chemically Treated Hemp Shives as a Suitable Organic Filler for Lightweight Composites Preparing. **2012**, 42, 948-954		21
356	Effect of clay addition on service properties of a developed OPF–CNSL–formaldehyde roofing material. *Construction and Building Materials*, **2012**, 36, 358-364	6.7	6
355	Thermal conductivity of coconut fibre filled ferrocement sandwich panels. *Construction and Building Materials*, **2012**, 37, 425-431	6.7	42
354	Experimental and theoretical study on thermal and moisture characteristics of new-type bamboo structure wall. **2012**, 19, 600-608		10
353	Influence of the setting process and the formulation on the drying of hemp concrete. *Construction and Building Materials*, **2012**, 30, 372-380	6.7	50
352	Effect of recycled cellulose fibres on the properties of lightweight cement composite matrix. *Construction and Building Materials*, **2012**, 34, 451-456	6.7	77
351	Experimental investigation of new biocomposite with low cost for thermal insulation. **2013**, 66, 267-273		124
350	Compressive and flexural behaviour and theoretical analysis of flax fibre reinforced polymer tube encased coir fibre reinforced concrete composite. **2013**, 52, 801-811		52
349	High performance fibre-reinforced concrete (FRC) for civil engineering applications. **2013**, 552-581		4
348	The effect of limestone powder, silica fume and fibre content on flexural behaviour of cement composite reinforced by waste Kraft pulp. *Construction and Building Materials*, **2013**, 46, 142-149	6.7	38
347	Improvement of mechanical properties of green concrete by treatment of the vegetals fibers. *Construction and Building Materials*, **2013**, 47, 1117-1124	6.7	88
346	Microstructures and mechanical properties of hemp fabric reinforced organoclay–cement nanocomposites. *Construction and Building Materials*, **2013**, 49, 298-307	6.7	52
345	Experimental study of flax FRP tube encased coir fibre reinforced concrete composite column. *Construction and Building Materials*, **2013**, 40, 1118-1127	6.7	84
344	Strength improvement of mortar composites reinforced with newly hybrid-blended fibres: Influence of fibres geometry and morphology. *Construction and Building Materials*, **2013**, 40, 473-480	6.7	49

343	Hygro-Mechanical Properties of Wood-Aggregate Concrete: Experimental Study and Modeling. **2013**,		
342	Assessment of the Durability Performance of Fiber-Cement Sheets. **2013**, 25, 819-823		4
341	Behavior and analytical modeling of natural flax fibre-reinforced polymer tube confined plain concrete and coir fibre-reinforced concrete. **2013**, 47, 2133-2148		65
340	Tensile Characteristics of Coconut Fibers Reinforced Mortar Composites. **2013**, 651, 269-273		7
339	A comparative study of steel reinforced concrete and flax fibre reinforced polymer tube confined coconut fibre reinforced concrete beams. **2013**, 32, 1155-1164		21
338	Study on the Properties of Oil Palm Trunk Fiber (OPTF) in Cement Composite. **2013**, 421, 395-400		11
337	Effect of bond on compressive behaviour of flax fibre reinforced polymer tube□onfined coir fibre reinforced concrete. **2013**, 32, 273-285		29
336	Interlaminar toughening in flax fiber-reinforced composites interleaved with carbon nanotube buckypaper. **2014**, 33, 1859-1868		28
335	Using slippage theory to analyze shear behavior of loop-formed fiber reinforced soil composites. **2014**, 43, 415-439		3
334	Understanding interactions between cementitious materials and microorganisms: a key to sustainable and safe concrete structures in various contexts. **2014**, 47, 1787-1806		56
333	Numerical-Experimental Assessment of the Aruma Fiber as Reinforcement to the Cementitious Matrix. *Key Engineering Materials*, **2014**, 600, 460-468	0.4	
332	Development of a hollow cylinder test for the elastic modulus distribution and the ultimate strength of bamboo. *Construction and Building Materials*, **2014**, 51, 235-243	6.7	21
331	Effect of column parameters on flax FRP confined coir fibre reinforced concrete. *Construction and Building Materials*, **2014**, 55, 299-312	6.7	57
330	Characterization of new natural cellulosic fiber from Cissus quadrangularis root. **2014**, 110, 423-9		176
329	Thermal and mechanical properties of hemp fabric-reinforced nanoclay□ement nanocomposites. **2014**, 49, 1684-1694		52
328	Characteristics of hemp fabric reinforced nanoclay□ement nanocomposites. *Cement and Concrete Composites*, **2014**, 50, 27-35	8.6	53
327	Flax fibre and its composites □A review. **2014**, 56, 296-317		733
326	Microstructure and mechanical performance of modified mortar using hemp fibres and carbon nanotubes. **2014**, 56, 60-68		59

325	Utilization of sweet sorghum fiber to reinforce fly ash-based geopolymer. **2014**, 49, 2548-2558		68
324	Progress Report on Natural Fiber Reinforced Composites. **2014**, 299, 9-26		533
323	Potential of bamboo organosolv pulp as a reinforcing element in fiber□ement materials. *Construction and Building Materials*, **2014**, 72, 65-71	6.7	46
322	Thermal and mechanical performance of natural mortar reinforced with date palm fibers for use as insulating materials in building. **2014**, 81, 98-104		176
321	Mortar-based systems for externally bonded strengthening of masonry. **2014**, 47, 2021-2037		166
320	Dynamic and static properties of flax fibre reinforced polymer tube confined coir fibre reinforced concrete. **2014**, 48, 1595-1610		48
319	Natural FRP tube confined fibre reinforced concrete under pure axial compression: A comparison with glass/carbon FRP. **2014**, 82, 159-169		70
318	Mechanical properties of recycled Kraft paper residue polyester composites. **2014**, 17, 888-892		3
317	Formulation of a repair mortar based on dune sand and natural microfibers. **2014**, 91-95		1
316	Study on the Mechanical Properties of Cement-Based Composites Were Reinforced through the Jute Fibers at Different Content. **2015**, 1096, 450-454		0
315	. **2015**,		48
314	A novel pull-out device used to study the influence of pressure during processing of cement-based material reinforced with coir. *Construction and Building Materials*, **2015**, 78, 224-233	6.7	26
313	Use of macro plastic fibres in concrete: A review. *Construction and Building Materials*, **2015**, 93, 180-188	6.7	177
312	Manufacturing of bacterial nano-cellulose reinforced fiber□ement composites. *Construction and Building Materials*, **2015**, 101, 958-964	6.7	67
311	The role of hardwood pulp fibers in mitigation of early-age cracking. *Cement and Concrete Composites*, **2015**, 57, 84-93	8.6	11
310	Microstructure and mechanical performance of modified hemp fibre and shiv mortars: Discovering the optimal formulation. **2015**, 84, 359-371		31
309	From straw in bricks to modern use of microfibers in cementitious composites for improved autogenous healing □A review. *Construction and Building Materials*, **2015**, 95, 774-787	6.7	92
308	Impact of leaf fibre modification methods on compatibility between leaf fibres and cement-based materials. *Construction and Building Materials*, **2015**, 94, 502-512	6.7	15

307	Bio-Based Materials. **2015**, 205-248		1
306	Degradation mechanisms of natural fiber in the matrix of cement composites. **2015**, 73, 1-16		163
305	Thermal and mechanical properties of NaOH treated hemp fabric and calcined nanoclay-reinforced cement nanocomposites. **2015**, 80, 70-81		19
304	Thermal stability of aluminum after friction stir processing with SiC nanoparticles. **2015**, 80, 41-50		16
303	Effect of calcined nanoclay on microstructural and mechanical properties of chemically treated hemp fabric-reinforced cement nanocomposites. *Construction and Building Materials*, **2015**, 95, 882-891	6.7	26
302	Optimization of Flexural Strength and Thermal Conductivity of Mortar Reinforced with Alfa Fibers. **2015**, 799-800, 794-799		1
301	Residual sisal fibers treated by methane cold plasma discharge for potential application in cement based material. *Industrial Crops and Products*, **2015**, 77, 691-702	5.9	24
300	Macro, Micro and Nanoscale Bamboo Fiber as a Potential Reinforcement for Composites. *Key Engineering Materials*, **2015**, 668, 11-16	0.4	6
299	Mechanical behavior of plaster reinforced with abaca fibers. *Construction and Building Materials*, **2015**, 99, 184-191	6.7	42
298	Evaluation of cellulosic pulps treated by hornification as reinforcement of cementitious composites. *Construction and Building Materials*, **2015**, 100, 83-90	6.7	35
297	Steel reinforced grout systems for the strengthening of masonry structures. **2015**, 134, 533-548		68
296	Improved multiple cracking and autogenous healing in cementitious materials by means of chemically-treated natural fibres. **2015**, 139, 87-99		47
295	Investigation of the internal structure of flax fibre cell walls by transmission electron microscopy. *Cellulose*, **2015**, 22, 3521-3530	5.5	12
294	Tensile behaviour of mortar-based composites for externally bonded reinforcement systems. **2015**, 68, 401-413		102
293	Characterization of new natural cellulosic fiber from Cissus quadrangularis stem. **2015**, 117, 392-399		153
292	Structural Solutions for Low-Cost Bamboo Frames: Experimental Tests and Constructive Assessments. *Materials*, **2016**, 9,	3.5	24
291	Effect of wood particle treatment on the properties of gypsum plaster pastes and composites. **2016**, 21, 1032-1044		4
290	Characterization of vegetable fibers and their application in cementitious composites. **2016**, 83-110		4

289	Fly ash-based geopolymer with kappa-carrageenan biopolymer. **2016**, 173-192		5
288	Recent advances in experimental studies of the mechanical behaviour of natural fibre-reinforced cementitious composites. **2016**, 17, 564-575		13
287	Static and Cyclic Compressive Properties of Self-Compacting Concrete-Filled Flax Fiber-Reinforced Polymer Tubes. **2016**, 20, 04016046		19
286	Innovative concretes for low-carbon constructions: a review. **2016**,		8
285	Plant aggregates and fibers in earth construction materials: A review. *Construction and Building Materials*, **2016**, 111, 719-734	6.7	175
284	A review of recent research on the use of cellulosic fibres, their fibre fabric reinforced cementitious, geo-polymer and polymer composites in civil engineering. **2016**, 92, 94-132		304
283	Thermal insulating particle boards reinforced with coconut leaf sheaths. **2016**, 4, 31-40		4
282	Mechanical Properties of Geopolymer Composites Reinforced with Natural Fibers. **2016**, 151, 388-393		92
281	Hydrodynamic description of elastic or viscoelastic composite materials: Relative strains as macroscopic variables. **2016**, 94, 023003		6
280	Overview of Cellulose Nanomaterials, Their Capabilities and Applications. **2016**, 68, 2383-2394		125
279	Analysis of the Mechanical Properties of Mortar Reinforced with Long Unidirectional Alfa Fibers in Different Curing Conditions. **2016**, 52, 545-554		5
278	Bamboo fiber at macro-, micro- and nanoscale for application as reinforcement. **2016**, 4, 41-52		9
277	Treatments of plant biomass for cementitious building materials – A review. *Construction and Building Materials*, **2016**, 121, 161-176	6.7	67
276	Bond-behavior study of newly developed bamboo-composite reinforcement in concrete. *Construction and Building Materials*, **2016**, 122, 110-117	6.7	64
275	Inverse identification of the bond behavior for jute fibers in cementitious matrix. **2016**, 95, 440-452		28
274	Evaluating the heat resistance of thermal insulated sandwich composites subjected to a turbulent fire. **2016**, 40, 586-598		7
273	Effect of calcined nanoclay on the durability of NaOH treated hemp fabric-reinforced cement nanocomposites. **2016**, 92, 659-666		19
272	Green concrete partially comprised of farming waste residues: a review. *Journal of Cleaner Production*, **2016**, 117, 122-138	10.3	119

271	Morphological, physical, mechanical, chemical and thermal characterization of sustainable Indian Areca fruit husk fibers (Areca Catechu L.) as potential alternate for hazardous synthetic fibers. **2016**, 13, 156-165		95
270	Nonlinear flexural behaviour of flax FRP double tube confined coconut fibre reinforced concrete. **2016**, 93, 247-254		12
269	Flax and hemp fibre reinforced pozzolanic matrix: evaluation of impact of time and natural weathering. **2017**, 21, 1403-1417		1
268	Experimental and micromechanical analysis of the elastic properties of wood-aggregate concrete. *Construction and Building Materials*, **2017**, 134, 346-357	6.7	15
267	Effect of nanoclay on durability and mechanical properties of flax fabric reinforced geopolymer composites. **2017**, 5, 62-70		44
266	The use of wool as fiber-reinforcement in cement-based mortar. *Construction and Building Materials*, **2017**, 139, 562-569	6.7	43
265	Moisture content influence on the thermal conductivity of insulating building materials made from date palm fibers mesh. *Construction and Building Materials*, **2017**, 148, 811-823	6.7	59
264	Sisal fiber reinforced hollow concrete blocks for structural applications: Testing and modeling. *Construction and Building Materials*, **2017**, 151, 98-112	6.7	25
263	ENGINEERING PROPERTIES OF ACRYLIC EMULSION POLYMER MODIFIED BAMBOO REINFORCED CEMENT BONDED COMPOSITES. **2017**, 9, 126-132		9
262	Effects of alkali-treated bamboo fibers on the morphology and mechanical properties of oil well cement. *Construction and Building Materials*, **2017**, 150, 619-625	6.7	39
261	Effectiveness of new natural fibers on damage-mechanical performance of mortar. *Construction and Building Materials*, **2017**, 152, 672-682	6.7	28
260	Using vegetable fiber nonwovens cement composites as sustainable materials for applications on ventilated fa□de systems. **2017**, 385-397		1
259	Macro- and nanodimensional plant fiber reinforcements for cementitious composites. **2017**, 343-382		9
258	Utilisation of waste cardboard and Nano silica fume in the production of fibre cement board reinforced by glass fibres. *Construction and Building Materials*, **2017**, 152, 746-755	6.7	10
257	Design characteristics, codes and standards of natural fibre composites. **2017**, 511-528		2
256	Long-Unidirectional Palm and Sisal Fibers Reinforced Composite: An Experimental Investigation. **2017**, 14, 368-378		4
255	Polypropylene/Plant-Based Fiber Biocomposites and Bionanocomposites. **2017**, 247-286		2
254	Cellulose nanomaterials as additives for cementitious materials. **2017**, 455-482		21

253	Natural fibre rebar cementitious composites. **2017**, 215-234		4
252	Compatibility improvement method of empty fruit bunch fibre as a replacement material in cement bonded boards: A review. **2017**, 271, 012076		3
251	Characterization of industrial discarded fruit wastes (Tamarindus Indica L.) as potential alternate for man-made vitreous fiber in polymer composites. **2018**, 116, 527-534		32
250	Formulation of low cost eco-repair mortar based on dune sand and Stipa tenacissima microfibers plant. *Construction and Building Materials*, **2018**, 171, 950-959	6.7	15
249	Influence of natural fibers characteristics on the interface mechanics with cement based matrices. **2018**, 140, 183-196		51
248	Electrical and thermal characterisation of cement-based mortars containing recycled metallic waste. *Journal of Cleaner Production*, **2018**, 190, 737-751	10.3	11
247	Combination of ground rice husk and polyvinyl alcohol fiber in cementitious composite. **2018**, 215, 116-122		8
246	Electrically conducting linen fabrics for technical applications. **2018**, 88, 144-154		9
245	Reefcrete: Reducing the environmental footprint of concretes for eco-engineering marine structures. **2018**, 120, 668-678		22
244	Evaluation of bio-degummed hemp fibers as reinforcement in gypsum plaster. **2018**, 138, 149-156		25
243	Carbon dioxide sequestration of fly ash alkaline-based mortars containing recycled aggregates and reinforced by hemp fibres. *Construction and Building Materials*, **2018**, 160, 48-56	6.7	30
242	. **2018**,		2
241	Mechanical and physical properties of industrial hemp-based insulation materials. **2018**, 67, 183		4
240	Characterization and Optimization of Mechanical Properties of Sustainable Moringa Oleifera Fruit Husk Fiber for Polymer Composite Applications. **2018**,		
239	Carbon dioxide sequestration of fly ash alkaline-based mortars containing recycled aggregates and reinforced by hemp fibers. **2018**, 393-409		0
238	2.30 Novel Building Materials. **2018**, 980-1017		2
237	Extraction and refinement of agricultural plant fibers for composites manufacturing. **2018**, 21, 897-906		17
236	Role of fungal-mediated mineralization in biocementation of sand and its improved compressive strength. **2018**, 133, 216-220		18

235	Enhanced flexural performance of epoxy polymer concrete with short natural fibers. **2018**, 61, 1107-1113		8
234	Effect of natural fibers on mechanical properties of green cement mortar. **2018**,		5
233	Early Age Carbonation of Fiber-Cement Composites under Real Processing Conditions: A Parametric Investigation. **2018**, 8, 190		6
232	Effect of Metallic Waste Addition on the Physical and Mechanical Properties of Cement-Based Mortars. **2018**, 8, 929		3
231	Development of Highly Repellent Silica Particles for Protection of Hemp Shiv Used as Insulation Materials. *Materials*, **2017**, 11,	3.5	5
230	Carbon dioxide sequestration of fly ash alkaline-based mortars containing recycled aggregates and reinforced by hemp fibers. **2018**, 373-391		1
229	Carbon dioxide sequestration on composites based on waste wood. **2018**, 431-450		1
228	Bamboo reinforced concrete: a critical review. **2018**, 51, 1		38
227	Modelling of heat transfer through permanent formwork panels exposed to high temperatures. *Construction and Building Materials*, **2018**, 185, 166-174	6.7	7
226	Potentials of Momordica angustisepala fiber in enhancing strengths of normal portland cement concrete. **2018**, 5, 1431353		11
225	Assessment of the mechanical performance of three varieties of pine needles as natural reinforcement of adobe. *Construction and Building Materials*, **2018**, 187, 205-213	6.7	14
224	Experimental Investigation of the Physical and Mechanical Properties of Sisal Fiber-Reinforced Concrete. **2018**, 6, 53		27
223	Effect of leaf fiber modification methods on mechanical and heat-insulating properties of leaf fiber cement-based composite materials. **2018**, 19, 573-583		12
222	Bast fibres: structure, processing, properties, and applications. **2019**, 64, 381-406		35
221	Morphological Approach for Nonlinear Flow and Heat Transfer in Complex Bio-Composite Material. **2019**, 40, 1486-1497		
220	Cellulose nanofibrils extracted from fique fibers as bio-based cement additive. *Journal of Cleaner Production*, **2019**, 235, 1540-1548	10.3	26
219	Influence of harvesting time and maceration method of Spanish Broom (Spartium junceum L.) fibers on mechanical properties of reinforced cement mortar. *Construction and Building Materials*, **2019**, 225, 243-255	6.7	7
218	Sustainability Metrics for Housing and the Thermal Performance Evaluation of a Low-Cost Prototype Made with Poly (Ethylene Terephthalate) Bottles. **2019**, 4, 30		2

217	Flexural properties and impact behaviour analysis of bamboo cellulosic fibers filled cement based composites. *Construction and Building Materials*, **2019**, 220, 403-414	6.7	24
216	Carbonation is affecting biodegradability testing of fiber cement composites. **2019**, 686, 888-892		1
215	Incorporation of natural waste from agricultural and aquacultural farming as supplementary materials with green concrete: A review. **2019**, 175, 107076		54
214	The mechanical properties, microstructures and mechanism of carbon nanotube-reinforced oil well cement-based nanocomposites.. **2019**, 9, 26691-26702		20
213	Influence of Nano Silica Particles on Durability of Flax Fabric Reinforced Geopolymer Composites. *Materials*, **2019**, 12,	3.5	22
212	On the Path to a New Generation of Cement-Based Composites through the Use of Lignocellulosic Micro/Nanofibers. *Materials*, **2019**, 12,	3.5	3
211	Behaviour of oil palm broom fibres (OPBF) reinforced concrete. *Construction and Building Materials*, **2019**, 221, 745-761	6.7	25
210	Seismic strengthening of masonry walls using bamboo components. **2019**, 22, 2982-2997		9
209	Impact of content and length of curaua fibers on mechanical behavior of extruded cementitious composites: Analysis of variance. *Cement and Concrete Composites*, **2019**, 102, 134-144	8.6	15
208	Sustainable approaches for developing concrete and mortar using waste seashell. **2019**, 1-20		14
207	Sustainable thermal insulation biocomposites from rice husk, wheat husk, wood fibers and textile waste fibers: Elaboration and performances evaluation. *Industrial Crops and Products*, **2019**, 135, 238-245	5.9	91
206	Development of lightweight concrete using prickly pear fibres. *Construction and Building Materials*, **2019**, 210, 269-277	6.7	11
205	Evaluation of the mechanical properties, durability and drying shrinkage of the mortar reinforced with polyacrylonitrile microfibers. *Construction and Building Materials*, **2019**, 210, 32-39	6.7	12
204	Modified pullout test for indirect characterization of natural fiber and cementitious matrix interface properties. *Construction and Building Materials*, **2019**, 208, 381-393	6.7	28
203	Investigation of mechanical properties of fiber-cement board reinforced with cellulosic fibers. **2019** , 570, 012113		5
202	Mechanical properties of composites based on geopolymers reinforced with sizal. **2019**, 706, 012007		
201	Lightweight construction materials: Mortar reinforced with date-palm mesh fibres. **2019**, 100, 39-45		23
200	The effect of a zirconium dioxide sol-gel treatment on the durability of flax reinforcements in cementitious composites. **2019**, 115, 105-115		4

199	The effect of specific surface area of macro fibers on energy absorption capacity of concrete. **2019**, 110, 707-714		6
198	Performance of glass fiber-reinforced cement composites containing phase change materials. **2019** , 38, e13061		3
197	Natural fiber reinforced polylactic acid composites: A review. **2019**, 40, 446-463		170
196	Lignocellulosic Materials for Fiber Cement Production. **2020**, 11, 2193-2200		15
195	Influence of chemical treatments of miscanthus stem fragments on polysaccharide release in the presence of cement and on the mechanical properties of bio-based concrete materials. *Cement and Concrete Composites*, **2020**, 105, 103429	8.6	18
194	The influence of dimension and content of natural organic fibrous materials on the multi-performance of cement-based composites: A statistical approach. *Construction and Building Materials*, **2020**, 231, 117175	6.7	8
193	Natural fibers as reinforcement additives for geopolymers □A review of potential eco-friendly applications to the construction industry. **2020**, 23, e00132		45
192	Lignocellulosic Materials for Production of Cement Composites: Valorization of the Alkali Treated Soybean Pod and Eucalyptus Wood Particles to Obtain Higher Value-Added Products. **2020**, 11, 2235-2245		7
191	Recycled fibers in reinforced concrete: A systematic literature review. *Journal of Cleaner Production* , **2020**, 248, 119207	10.3	70
190	A high-strength lightweight concrete made using straw. **2020**, 72, 460-470		5
189	A review on performance of polyester fibers in alkaline and cementitious composites environments. *Construction and Building Materials*, **2020**, 241, 117998	6.7	31
188	Recent developments in the application of oil palm fibers in cement composites. **2020**, 14, 94-108		23
187	Feasibility study of using poplar wastes as sand in cement mortars. *Journal of Material Cycles and Waste Management*, **2020**, 22, 488-500	3.4	10
186	Experimental evaluation of bamboo reinforced concrete beams. **2020**, 28, 101071		11
185	Elaboration and characterization of clay-sand composite based on Juncus acutus fibers. *Construction and Building Materials*, **2020**, 238, 117712	6.7	10
184	Composites based on Juncus maritimus fibers for building insulation. *Cement and Concrete Composites*, **2020**, 106, 103474	8.6	11
183	Performance of cementitious composites with nano PCMs and cellulose nano fibers. *Construction and Building Materials*, **2020**, 236, 117483	6.7	18
182	Influence of Plantain Pseudostem Fibres and Lime on the Properties of Cement Mortar. **2020**, 2020, 1-9		4

181	Mechanical Properties and Flexural Behavior of Sustainable Bamboo Fiber-Reinforced Mortar. **2020**, 10, 6587		5
180	Shear capacity of masonry walls externally strengthened using Flax-TRM composite systems: experimental tests and comparative assessment. *Construction and Building Materials*, **2020**, 261, 120490	6.7	25
179	Potential role of plant growth-promoting bacteria in Miscanthus x giganteus phytotechnology applied to the trace elements contaminated soils. **2020**, 155, 105103		7
178	Fibre-Reinforced Foamed Concretes: A Review. *Materials*, **2020**, 13,	3.5	49
177	PLA Composites Reinforced with Flax and Jute Fibers-A Review of Recent Trends, Processing Parameters and Mechanical Properties. **2020**, 12,		38
176	Impact of Organic Compounds Extracted from Hemp-Origin Aggregates on the Hardening Process and Compressive Strength of Different Types of Mineral Binders. **2020**, 32, 04020386		3
175	High-throughput design of fiber reinforced cement-based composites using deep learning. *Cement and Concrete Composites*, **2020**, 113, 103716	8.6	9
174	A scientific study on the role of organic lime mortars of Padmanabhapuram Palace, Thuckalay, Tamilnadu, India. *European Physical Journal Plus*, **2020**, 135, 1	3.1	2
173	Development of Alfa Fiber-Based Mortar with Improved Thermo-Mechanical Properties. **2020**, 10, 8021		3
172	Agricultural Residues of Lignocellulosic Materials in Cement Composites. **2020**, 10, 8019		2
171	Physicomechanical Properties of Treated Oil Palm-Broom Fibers for Cementitious Composites. **2020**, 32, 04020300		3
170	Physico-Mechanical Properties of Cellulose Fiber-Cement Mortars. *Key Engineering Materials*, **2020**, 838, 31-38	0.4	1
169	Studies on Hemp and Recycled Aggregate Concrete. *International Journal of Concrete Structures and Materials*, **2020**, 14,	2.8	2
168	Properties of rice straw reinforced alkali activated cementitious composites. *Construction and Building Materials*, **2020**, 261, 120536	6.7	8
167	Improvement of Performances of the Gypsum-Cement Fiber Reinforced Composite (GCFRC). *Materials*, **2020**, 13,	3.5	35
166	Influence of Linseed Oil Varnish Admixture on Glauconite Clay Mortar Properties. *Materials*, **2020**, 13,	3.5	
165	Evaluation of Mechanical Properties of Concrete Reinforced with Eucalyptus globulus Bark Fibres. *Sustainability*, **2020**, 12, 10026	3.6	3
164	Induced Modification of Flexural Toughness of Natural Hydraulic Lime Based Mortars by Addition of Giant Reed Fibers. **2020**, 13, e00425		3

163	Assessment of the Materials Employed in Green Artificial Reefs for the Galician Estuaries in Terms of Circular Economy. **2020**, 17,		7
162	Effect of Surface Modification and Fibre Content on the Mechanical Properties of Coconut Fibre Reinforced Concrete. **2020**, 1159, 78-99		
161	Smart composite materials for civil engineering applications. **2020**, 197-210		4
160	Carbon dioxide sequestration on mortars containing recycled aggregates. **2020**, 143-159		
159	Determination and Review of Physical and Mechanical Properties of Raw and Treated Coconut Fibers for Their Recycling in Construction Materials. **2020**, 8, 37		29
158	Characterization of New Cellulosic Fiber from the Bark of Acacia nilotica L. Plant. **2020**, 1-10		32
157	Mechanical properties and impact resistance of a high-strength lightweight concrete incorporating prickly pear fibres. *Construction and Building Materials*, **2020**, 262, 119972	6.7	8
156	A review of properties of bio-fibrous concrete exposed to elevated temperatures. *Construction and Building Materials*, **2020**, 260, 119671	6.7	11
155	Characterization of vegetable fibers and their application in cementitious composites. **2020**, 141-167		3
154	An investigation into influence of physical and chemical surface modification of macro-polypropylene fibers on properties of cementitious composites. *Construction and Building Materials*, **2020**, 244, 118340	6.7	5
153	Experimental evaluation of cement mortars with recycled brass fibres from the electrical discharge machining process. *Construction and Building Materials*, **2020**, 246, 118522	6.7	8
152	Biomineralization and Successive Regeneration of Engineered Living Building Materials. **2020**, 2, 481-494		50
151	Production of Sustainable Construction Materials Using Agro-Wastes. *Materials*, **2020**, 13,	3.5	44
150	Short sugarcane bagasse fibers cementitious composites for building construction. *Construction and Building Materials*, **2020**, 247, 118451	6.7	14
149	Nonconventional Ca(OH) Treatment of Bamboo for the Reinforcement of Cement Composites. *Materials*, **2020**, 13,	3.5	2
148	Study of the effect of silica fume and latex dosages in cementitious composites reinforced with cellulose fibers. **2020**, 31, 101442		6
147	Bond behaviour of oil palm broom fibres in concrete for eco-friendly construction. **2021**, 174, 47-64		2
146	A Critical Review on Date Palm Tree (Phoenix dactylifera L.) Fibres and Their Uses in Bio-composites. **2021**, 12, 2853-2887		11

145	A comprehensive overview of fibre-reinforced gypsum-based composites (FRGCs) in the construction field. **2021**, 205, 108540		23
144	Animal fibers as water reservoirs for internal curing of mortars and their limits caused by fiber clustering. *Construction and Building Materials*, **2021**, 267, 120918	6.7	5
143	Influence of acrylic latex and pre-treated hemp fibers on cement based mortar properties. *Construction and Building Materials*, **2021**, 273, 121720	6.7	11
142	Effect of plant cellulose microfibers on hydration of cement composites. *Construction and Building Materials*, **2021**, 267, 121734	6.7	9
141	Mechanical refining combined with chemical treatment for the processing of Bamboo fibres to produce efficient cement composites. *Construction and Building Materials*, **2021**, 269, 121232	6.7	9
140	State-of-the-Art Review and Aims of the Thesis. **2021**, 7-45		
139	Hierarchical Vegetal Fiber Reinforced Composites. **2021**, 379-412		1
138	Moisture Absorption and Durability. **2021**, 147-176		
137	Investigating the suitability of fly ash/metakaolin-based geopolymers reinforced with South African alien invasive wood and sugarcane bagasse residues for use in outdoor conditions. **2021**, 79, 611-627		5
136	Fiber reinforced cement based composites. **2021**, 597-648		3
135	Effect of wool fiber addition on the reinforcement of loose sands by microbially induced carbonate precipitation (MICP): mechanical property and underlying mechanism. **2021**, 16, 1401-1416		10
134	The Roles of Vegetable Fibres in Green Chemistry. **2021**, 425-443		
133	Influence of concrete properties on the initial biological colonisation of marine artificial structures. **2021**, 159, 106104		5
132	Utilization of polymer chemical admixtures for surface treatment and modification of cellulose fibres in cement-based composites: a review. *Cellulose*, **2021**, 28, 1241-1266	5.5	7
131	A story of resilience and local materials. **2021**, 219-246		
130	Review of recent developments in cement composites reinforced with fibers and nanomaterials. **2021**, 15, 1-19		11
129	Forecasts of Natural Fiber Reinforced Polymeric Composites and Its Degradability Concerns □A Review. **2021**, 175-196		0
128	Fundamental understanding of carbonation curing and durability of carbonation-cured cement-based composites: A review. **2021**, 44, 101428		32

127	Lignocellulosic Fiber Cement Compatibility: A State of the Art Review. 1-26		24
126	A Review on Fiber Reinforced Concrete using sisal fiber. **2021**, 1055, 012027		3
125	Natural Fibers in Concrete □A Review. **2021**, 1055, 012038		3
124	A Review on Chemical Modification by using Sodium Hydroxide (NaOH) to Investigate the Mechanical Properties of Sisal, Coir and Hemp Fiber Reinforced Concrete Composites. 1-19		6
123	Recycling of spent coffee grounds in construction materials: A review. *Journal of Cleaner Production* , **2021**, 289, 125837	10.3	22
122	Study of new reinforcing materials for cementitious panel production. **2021**, 28, 37217-37230		1
121	Mechanical and Physical Characterisation of Typha domingensis-Based Thermal Insulation Boards for Developing Areas such as Nigeria. **2021**, 12, 5795-5806		1
120	Physico-chemical and microstructural fire-induced alterations into metakaolin-based vegetable and polypropylene fibred mortars. *Construction and Building Materials*, **2021**, 276, 122225	6.7	3
119	Effect of pine needle fibre reinforcement on the mechanical properties of concrete. *Construction and Building Materials*, **2021**, 278, 122333	6.7	8
118	Mechanical properties of cement mortar with Lime & Rice hush ash. **2021**, 1116, 012025		1
117	Rheological Aspects of Cellulose Nanomaterials: Governing Factors and Emerging Applications. **2021**, 33, e2006052		42
116	Evaluation of the incorporation of charcoal residues in cement mortars.		
115	Incorporation of biochar in cementitious materials: A roadmap of biochar selection. *Construction and Building Materials*, **2021**, 283, 122757	6.7	15
114	Sustainable application of rice husk and rice straw in cellular concrete composites. *Construction and Building Materials*, **2021**, 283, 122770	6.7	4
113	Exploiting the Amazonian A□Palm Leaves Potential as Reinforcement for Cement Composites through Alkali and Bleaching Treatments. 1-14		0
112	A Comprehensive Review on the Utilization of Recycled Waste Fibers in Cement-Based Composites. *Materials*, **2021**, 14,	3.5	4
111	Preparation and characterization of ancient recipe of organic Lime Putty-Evaluation for its suitability in restoration of Padmanabhapuram Palace, India. **2021**, 11, 13261		1
110	Mechanical and durability characterization of a new textile waste micro-fiber reinforced cement composite for building applications. **2021**, 14, e00492		12

109	Influence of sisal fibers on the mechanical performance of ultra-high performance concretes. *Construction and Building Materials*, **2021**, 286, 122958	6.7	30
108	Creep of pre-cracked sisal fiber reinforced cement based composites. *Construction and Building Materials*, **2021**, 293, 123511	6.7	3
107	A study on characteristics of sisal fiber and its performance in fiber reinforced concrete. **2021**,		4
106	Rice husk cement-based composites for acoustic barriers and thermal insulating layers. **2021**, 39, 102297		1
105	Impact of Alfa fibers morphology on hydration kinetics and mechanical properties of cement mortars. *Construction and Building Materials*, **2021**, 293, 123514	6.7	5
104	Importance and potential of cellulosic materials and derivatives in extrusion-based 3D concrete printing (3DCP): Prospects and challenges. *Construction and Building Materials*, **2021**, 291, 123281	6.7	5
103	Natural Fibre-Reinforced Polymer Composites: Manufacturing and Biomedical Applications. **2022**, 25-63		1
102	A Textile Waste Fiber-Reinforced Cement Composite: Comparison between Short Random Fiber and Textile Reinforcement. *Materials*, **2021**, 14,	3.5	6
101	Elaboration of bio-based building materials made from recycled olive core. **2021**, 8, 98		2
100	Properties of Plantain Pseudo-Stem Fibres, Plantain Bunch Fibres, and Rice Husk for Construction Application. **2021**, 3, 1		0
99	Research Progress on Durability of Cellulose Fiber-Reinforced Cement-Based Composites. **2021**, 2021, 1-13		5
98	A New Sustainability Assessment Method for Fa□ade Cladding Panels: A Case Study of Fiber/Textile Reinforced Cement Sheets. **2022**, 809-819		2
97	Structural performance of masonry prisms, wallettes and walls containing high volume of industrial by-products □sustainable housing perspective. *Construction and Building Materials*, **2021**, 303, 124439	6.7	1
96	Mechanical behavior of cement composites reinforced by aligned Enset fibers. *Construction and Building Materials*, **2021**, 304, 124607	6.7	1
95	Vegetable fibers behavior in geopolymers and alkali-activated cement based matrices: A review. **2021**, 44, 103291		5
94	Bamboo as reinforcement in structural concrete. **2021**, 46, 6793-6799		0
93	Evaluation of Different Methods of Surface Treatment of Natural A□i Fiber Added in Cementitious Composites. **2021**, 383-391		2
92	Development of Vegetable Fibre-Mortar Composites of Improved Durability. **2021**, 413-423		

91	Investigating self-compacting-concrete reinforced with steel & coir fiber. **2021**, 45, 4948-4953	0
90	Experimental study on the valorization of poplar by-products in cement-based materials. **2020**, 603-608	2
89	Comparative experimental investigation of natural fibers reinforced light weight concrete as thermally efficient building materials. **2020**, 31, 101411	24
88	The Effect of Specimen Shape on the Mechanical Properties of Sisal Fiber-Reinforced Concrete. **2018**, 12, 368-382	4
87	The overview of mechanical properties of short natural fiber reinforced geopolymer composites. **2020**, 3, 21-32	15
86	Acoustic properties of porous concrete made from arlite and vermiculite lightweight aggregates. **2015**, 65, e072	14
85	Impact of Flax Fiber Reinforcement on Mechanical Properties of Solid and Foamed Geopolymer Concrete.	2
84	Mechanical and thermophysical model of date palm fiber and beet pulp composite as natural thermal insulant. **2021**, 44, e13877	
83	A comprehensive overview of jute fiber reinforced cementitious composites. **2021**, 15, e00724	8
82	Literature Review. **2017**, 9-50	
81	Introduction. **2017**, 1-8	
80	Durability of Naoh-Treated Hemp Fabric and Calcined Nanoclay-Reinforced Cement Nanocomposites. **2017**, 77-88	
79	Fully Biodegradable All-Cellulose Composites. 303-322	1
78	Hemp Fibre Reinforced Composites.	0
77	Porous Thermal Insulation Materials on Organic and Mineral Fillers. **2020**, 354-360	6
76	Characterization of Areca and Tamarind Fiber Reinforced Hybrid Polymer Composites for Structural Applications.	
75	Study of the Mechanical Properties of the Sand Concrete Lightened by Lignocellulosic Materials. **2020**, 34-47	
74	Advanced interactions of cement-based materials with microorganisms: A review and future perspective. **2022**, 45, 103458	2

73	An Experimental Study on the Use of Fonio Straw and Shea Butter Residue for Improving the Thermophysical and Mechanical Properties of Compressed Earth Blocks. **2020**, 08, 107-132		
72	Rate of Hydration of Lignocellulosic Fiber-Reinforced Hydrated Cement. **2020**, 117,		
71	Effect of metakaolin on the mechanical properties and pore characteristics of fiber-reinforced tailing recycled aggregate concrete. **2022**, 35, 15-25		2
70	Influence of alkalinity on self-treatment process of natural fiber and properties of its geopolymeric composites. *Construction and Building Materials*, **2022**, 316, 125817	6.7	3
69	Green Building Materials Based on Waste Filler and Binder. **2021**,		1
68	Experimental Investigation on Thermomechanical Properties of Bio-Composites Reinforced With Two Lengths of the Date Palm Fibers. 1-17		2
67	Agricultural and Aquaculture Wastes as Concrete Components: A Review. **2021**, 8,		2
66	Influence of Different Types of Treatments on Amazonian Vegetable Fibers on the Performance of Mortars Based on Portland Cement, Metakaolin and Fly Ash. **2021**, 24,		2
65	Potential Use of Alternative Binder to Improve Durability of Hemp Concrete Under Cyclic Wetting/Drying Aging. *SSRN Electronic Journal*,	1	
64	Evaluation of thermal/acoustic performance to confirm the possibility of coffee waste in building materials in using bio-based microencapsulated PCM. **2021**, 294, 118616		0
63	The impact of fibre processing on the mechanical properties of epoxy matrix composites and wood-based particleboard reinforced with hemp (Cannabis sativa L.) fibre. **2022**, 57, 1738-1754		0
62	Natural fibers. **2022**, 85-107		
61	A Study Using the Combined Method of Scientometric and Manual Analysis on the Present Research of Plant Fibres Reinforced Concrete. *SSRN Electronic Journal*,	1	
60	Coir fiber as reinforcement in cement-based materials. **2022**, 707-739		
59	Biofiber composites in building and construction. **2022**, 335-365		0
58	A review of coir fibre and coir fibre reinforced cement-based composite materials (2000–2021). *Journal of Cleaner Production*, **2022**, 338, 130676	10.3	5
57	Reinforcing effects of gypsum composite with basalt fiber and diatomite for improvement of high-temperature endurance. *Construction and Building Materials*, **2022**, 325, 126762	6.7	0
56	Boosting Portland cement-free composite performance via alkali-activation and reinforcement with pre-treated functionalised wheat straw. *Industrial Crops and Products*, **2022**, 178, 114648	5.9	1

55	Laboratory Investigation of Modified Roller Compacted Concrete Pavement (RCCP) Containing Macro Synthetic Fibers. *International Journal of Pavement Research and Technology*, 1	2	1
54	The Effect of Adding Phragmites australis Fibers on the Properties of Concrete. *Buildings*, **2022**, 12, 278	3.2	3
53	Effect of beating on softwood pulp fiber reinforced calcium silicate board. *Cellulose*,	5.5	0
52	Bamboo Fibers for the Reinforcement of Mortar and Plaster. *Key Engineering Materials*, 916, 98-104	0.4	
51	Potential use of matakaolin as a partial replacement of preformulated lime binder to improve durability of hemp concrete under cyclic wetting/drying aging. *Construction and Building Materials*, **2022**, 333, 127389	6.7	1
50	Hydration characteristics of coconut fibre-reinforced mortars containing CSA and Portland cement. *Journal of Material Cycles and Waste Management*, 1	3.4	0
49	Sulfate Resistance and Microstructure of Metakaolin Geopolymer Reinforced by Cellulose Nanofiber and Wollastonite. *SSRN Electronic Journal*,	1	
48	Method for Manufacturing Corn Straw Cement-Based Composite and Its Physical Properties.. *Materials*, **2022**, 15,	3.5	1
47	Restoration of an ancient temple at Parvathamalai in Tamil Nadu to preserve cultural heritage. *European Physical Journal Plus*, **2022**, 137, 1	3.1	0
46	Use of vegetable fibers as reinforcements in cement-matrix composite materials: A review. *Construction and Building Materials*, **2022**, 340, 127729	6.7	0
45	A study using a combined method of scientometric and manual analysis to review the present research of plant fibres reinforced concrete. *Construction and Building Materials*, **2022**, 341, 127551	6.7	1
44	Critical evaluation of date palm sheath fibre characteristics as a reinforcement for developing sustainable cementitious composites from waste materials. *Biomass Conversion and Biorefinery*, 1	2.3	
43	An Investigation of the Ground Walnut Shells Addition Effect on the Properties of the Fly Ash-Based Geopolymer. *Materials*, **2022**, 15, 3936	3.5	0
42	A Comprehensive Review on Sustainable Natural Fiber in Cementitious Composites: The Date Palm Fiber Case. *Sustainability*, **2022**, 14, 6691	3.6	2
41	Physical and Mechanical Properties of the Cotton Straw Fibre and Expanded Polystyrene Cementitious Composite. *Advances in Cement Research*, 1-36	1.8	
40	Influence of curing conditions on the mechanical and hydric performance of air-lime mortars with nano-Ca(OH)2 and nano-SiO2 additions. *Cement and Concrete Composites*, **2022**, 132, 104631	8.6	0
39	Evaluation of Effective Elastic Properties for Wood Cement Composites: Experimental and Computational Investigations. *Sustainability*, **2022**, 14, 8638	3.6	
38	Investigating the Hybrid Effect of Micro-steel Fibres and Polypropylene Fibre-Reinforced Magnesium Phosphate Cement Mortar. *International Journal of Concrete Structures and Materials*, **2022**, 16,	2.8	0

37	Advances in Applications of Cereal Crop Residues in Green Concrete Technology for Environmental Sustainability: A Review. **2022**, 12, 1266	
36	Bio-composites and bio-hybrid composites reinforced with natural fibers: Review. **2022**,	1
35	Degradation Kinetics and Durability Enhancement Strategies of Cellulosic Fiber-Reinforced Geopolymers and Cement Composites. **2022**, 2022, 1-22	1
34	Effective utilization of natural fibres (coir and jute) for sustainable low-volume rural road construction A critical review. **2022**, 347, 128606	1
33	Experimental studies on the effect of natural and synthetic fibers on properties of fresh and hardened mortar. **2022**, 347, 128550	2
32	Mechanical, electrical properties and impedance spectroscopy characterization of rammed earth. **2022**, 15,	0
31	Mechanical and durability properties of natural fiber-reinforced geopolymers containing lead smelter slag and waste glass sand. **2022**, 352, 129043	1
30	Modification of short sugarcane bagasse fibres for application in cementitious composites: A statistical approach to mechanical and physical properties. **2022**, 353, 129072	0
29	Impact of miscanthus lignin and arabinoxylan on Portland cement. **2022**, 188, 115585	0
28	Nanohybrid Materials. **2022**, 23-46	0
27	An Evaluation of the Flexural and Durability Properties of Bamboo-Reinforced Concrete Prism.	0
26	Fiber Reinforced Concrete with Natural Plant Fibers Investigations on the Application of Bamboo Fibers in Ultra-High Performance Concrete. **2022**, 14, 12011	0
25	A Review on Gypsum-Based Composites Reinforced With Palm Fibers in Construction Applications. **2022**, 43,	0
24	Evaluating the Mechanical Properties of Fibre-Reinforced Concrete Containing Coconut Palm Leaf Ash as Supplementary Cementitious Material.	0
23	Review on natural plant fibres and their hybrid composites for structural applications: Recent trends and future perspectives. **2022**, 100322	3
22	Performance assessment of bamboo bond strength in cement fly ash mortar. 1-16	0
21	Label-Free Fluorometric Characterization of Fibre Cement: Unraveling Lignin Degradation via Multidimensional Fluorometry.	0
20	Modelling and Optimization of the Mechanical Properties of Date Fiber Reinforced Concrete Containing Silica Fume using Response Surface Methodology. **2022**, e01633	2

19	Study on bending properties of coir fiber magnesium phosphate cement immersed in water. 13694332221135	0
18	Effects of alkali-treated plant wastewater on the properties and microstructures of alkali-activated composites. **2022**,	1
17	Sisal fiber modified construction waste recycled brick as building material: Properties, performance and applications. **2022**, 46, 927-935	0
16	Study on the use of mining waste as raw material for extruded fiber cement production. **2023**, 63, 105547	0
15	Microstructural analysis, physical, chemical components and tensile properties of coir fibre long-term exposed in Ca(OH)2 as representative of concrete pore solution. **2023**, 385, 135693	0
14	What we learn is what we earn from sustainable and circular construction. **2023**, 382, 135183	0
13	Sulfate resistance and microstructure of metakaolin geopolymer reinforced by cellulose nanofiber and wollastonite. **2023**, 64, 105580	0
12	A Comprehensive Review on Construction Applications and Life Cycle Sustainability of Natural Fiber Biocomposites. **2022**, 14, 15905	3
11	Thermal performance of lonicera rupicola grass as a building insulation composite material. **2023**, 6,	1
10	Geopolymeric Composite Materials Made of Sol-Gel Silica and Agroindustrial Wastes of Rice, Barley, and Coffee Husks with Wood-Like Finishing. **2022**, 14, 16689	1
9	SHEAR STRUCTURAL RESPONSE OF A PROTOTYPE STRENGTHENING SYSTEM DESIGNED FOR STONE MASONRY PANELS. **2022**, 14, 245-250	0
8	Application of Composite for Engineering Application. **2023**, 139-155	0
7	Rheological and Mechanical Properties of Kenaf and Jute Fiber-Reinforced Cement Composites. **2023**, 17,	0
6	Fiber-reinforced concrete (FRC) for civil engineering applications. **2023**, 541-568	0
5	Synergistic effect of fibres on the physical, mechanical, and microstructural properties of aerogel-based thermal insulating renders. **2023**, 139, 105045	0
4	The fracture mechanical behavior of the interface between animal fibers, mortar, and earth matrices. A theoretical and experimental approach. **2023**, 254, 110568	0
3	The effect of different treatments on abaca fibers used in cementitious composites. **2023**, 20,	0
2	Effect of plant fiber characteristics on mechanical properties of calcium silicate board based on optimum fiber content. **2023**, 30, 3823-3836	0

1 Pond Ash (PA)□ute Fiber-Based Geopolymer Cementitious Materials. **2023**, 169-194 0