# Gustavo Henrique Denzin Tonoli

## List of Publications by Citations



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| 122 papers | 2,589 citations | 29 h-index | 46 g-index |
| 130 ext. papers | 3,085 ext. citations | 3.8 avg, IF | 5.15 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 122 | Cellulose micro/nanofibres from Eucalyptus kraft pulp: preparation and properties. *Carbohydrate Polymers*, **2012**, 89, 80-8 | 10.3 | 211 |
| 121 | Cellulose modified fibres in cement based composites. *Composites Part A: Applied Science and Manufacturing*, **2009**, 40, 2046-2053 | 8.4 | 145 |
| 120 | Starch/PVA-based nanocomposites reinforced with bamboo nanofibrils. *Industrial Crops and Products*, **2015**, 70, 72-83 | 5.9 | 102 |
| 119 | Effect of accelerated carbonation on cementitious roofing tiles reinforced with lignocellulosic fibre. *Construction and Building Materials*, **2010**, 24, 193-201 | 6.7 | 100 |
| 118 | Improved durability of vegetable fiber reinforced cement composite subject to accelerated carbonation at early age. *Cement and Concrete Composites*, **2013**, 42, 49-58 | 8.6 | 89 |
| 117 | Eucalyptus pulp fibres as alternative reinforcement to engineered cement-based composites. *Industrial Crops and Products*, **2010**, 31, 225-232 | 5.9 | 82 |
| 116 | Performance and Durability of Cement Based Composites Reinforced with Refined Sisal Pulp. *Materials and Manufacturing Processes*, **2007**, 22, 149-156 | 4.1 | 72 |
| 115 | Processing and dimensional changes of cement based composites reinforced with surface-treated cellulose fibres. *Cement and Concrete Composites*, **2013**, 37, 68-75 | 8.6 | 66 |
| 114 | Effects of natural weathering on microstructure and mineral composition of cementitious roofing tiles reinforced with fique fibre. *Cement and Concrete Composites*, **2011**, 33, 225-232 | 8.6 | 65 |
| 113 | Supercritical carbonation treatment on extruded fibre‑cement reinforced with vegetable fibres. *Cement and Concrete Composites*, **2015**, 56, 84-94 | 8.6 | 63 |
| 112 | Effect of accelerated carbonation on the microstructure and physical properties of hybrid fiber-cement composites. *Minerals Engineering*, **2014**, 59, 101-106 | 4.9 | 63 |
| 111 | Comparative study of 12 pineapple leaf fiber varieties for use as mechanical reinforcement in polymer composites. *Industrial Crops and Products*, **2015**, 64, 68-78 | 5.9 | 62 |
| 110 | Electrospinning of zein/tannin bio-nanofibers. *Industrial Crops and Products*, **2014**, 52, 298-304 | 5.9 | 51 |
| 109 | Mineralogical and microstructural changes promoted by accelerated carbonation and ageing cycles of hybrid fiber‑cement composites. *Construction and Building Materials*, **2014**, 68, 750-756 | 6.7 | 50 |
| 108 | Evaluation of reaction factors for deposition of silica ($SiO_2$) nanoparticles on cellulose fibers. *Carbohydrate Polymers*, **2014**, 114, 424-431 | 10.3 | 50 |
| 107 | How the chemical nature of Brazilian hardwoods affects nanofibrillation of cellulose fibers and film optical quality. *Cellulose*, **2015**, 22, 3657-3672 | 5.5 | 41 |
| 106 | TPS/PCL Composite Reinforced with Treated Sisal Fibers: Property, Biodegradation and Water-Absorption. *Journal of Polymers and the Environment*, **2013**, 21, 1-7 | 4.5 | 39 |

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| 105 | Impact of bleaching pine fibre on the fibre/cement interface. *Journal of Materials Science*, **2012**, 47, 4167-4177 | 4.3 | 37 |
| 104 | Improving cellulose nanofibrillation of non-wood fiber using alkaline and bleaching pre-treatments. *Industrial Crops and Products*, **2019**, 131, 203-212 | 5.9 | 36 |
| 103 | High moisture strength of cassava starch/polyvinyl alcohol-compatible blends for the packaging and agricultural sectors. *Journal of Polymer Research*, **2015**, 22, 1 | 2.7 | 36 |
| 102 | Cellulose nanofibrils/nanoclay hybrid composite as a paper coating: Effects of spray time, nanoclay content and corona discharge on barrier and mechanical properties of the coated papers. *Food Packaging and Shelf Life*, **2018**, 15, 87-94 | 8.2 | 36 |
| 101 | Jute fibers and micro/nanofibrils as reinforcement in extruded fiber-cement composites. *Construction and Building Materials*, **2019**, 211, 517-527 | 6.7 | 35 |
| 100 | Properties of cellulose micro/nanofibers obtained from eucalyptus pulp fiber treated with anaerobic digestate and high shear mixing. *Cellulose*, **2016**, 23, 1239-1256 | 5.5 | 35 |
| 99 | Effect of fibre morphology on flocculation of fibre‐cement suspensions. *Cement and Concrete Research*, **2009**, 39, 1017-1022 | 10.3 | 34 |
| 98 | Particles of Coffee Wastes as Reinforcement in Polyhydroxybutyrate (PHB) Based Composites. *Materials Research*, **2015**, 18, 546-552 | 1.5 | 32 |
| 97 | Hybrid Reinforcement of Sisal and Polypropylene Fibers in Cement-Based Composites. *Journal of Materials in Civil Engineering*, **2011**, 23, 177-187 | 3 | 32 |
| 96 | Relação entre o poder calorífico superior e os componentes elementares e minerais da biomassa vegetal. *Pesquisa Florestal Brasileira*, **2011**, 31, 113-122 | 0.5 | 31 |
| 95 | Brazilian Lignocellulosic Wastes for Bioenergy Production: Characterization and Comparison with Fossil Fuels. *BioResources*, **2012**, 8, | 1.3 | 30 |
| 94 | Extruded Cement Based Composites Reinforced with Sugar Cane Bagasse Fibres. *Key Engineering Materials*, **2012**, 517, 450-457 | 0.4 | 29 |
| 93 | Preparation of Cellulose Nanofibrils from Bamboo Pulp by Mechanical Defibrillation for Their Applications in Biodegradable Composites. *Journal of Nanoscience and Nanotechnology*, **2015**, 15, 6751-68 | 1.3 | 28 |
| 92 | MICRO/NANOFIBRILAS CELULÓSICAS DE EUCALYPTUS EM FIBROCIMENTOS EXTRUDADOS. *Cerne*, **2016**, 22, 59-68 | 0.7 | 28 |
| 91 | Renewable hybrid nanocatalyst from magnetite and cellulose for treatment of textile effluents. *Carbohydrate Polymers*, **2017**, 163, 101-107 | 10.3 | 27 |
| 90 | Nanostructured Polylactic Acid/Candeia Essential Oil Mats Obtained by Electrospinning. *Journal of Nanomaterials*, **2015**, 2015, 1-9 | 3.2 | 27 |
| 89 | Impact of nanofibrillation degree of eucalyptus and Amazonian hardwood sawdust on physical properties of cellulose nanofibril films. *Wood Science and Technology*, **2017**, 51, 1095-1115 | 2.5 | 25 |
| 88 | Isocyanate-treated cellulose pulp and its effect on the alkali resistance and performance of fiber cement composites. *Holzforschung*, **2013**, 67, 853-861 | 2 | 25 |

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| 87 | Nanoindentation study of the interfacial zone between cellulose fiber and cement matrix in extruded composites. *Cement and Concrete Composites*, **2018**, 85, 1-8 | 8.6 | 24 |
| 86 | Effect of the nano-fibrillation of bamboo pulp on the thermal, structural, mechanical and physical properties of nanocomposites based on starch/poly(vinyl alcohol) blend. *Cellulose*, **2018**, 25, 1823-1849 | 5.5 | 22 |
| 85 | Obtaining cellulosic nanofibrils from oat straw for biocomposite reinforcement: Mechanical and barrier properties. *Industrial Crops and Products*, **2020**, 148, 112264 | 5.9 | 21 |
| 84 | Biocomposite of Cassava Starch Reinforced with Cellulose Pulp Fibers Modified with Deposition of Silica (SiO2) Nanoparticles. *Journal of Nanomaterials*, **2015**, 2015, 1-9 | 3.2 | 21 |
| 83 | Bio-based thin films of cellulose nanofibrils and magnetite for potential application in green electronics. *Carbohydrate Polymers*, **2019**, 207, 100-107 | 10.3 | 21 |
| 82 | Properties of an Amazonian vegetable fiber as a potential reinforcing material. *Industrial Crops and Products*, **2013**, 47, 43-50 | 5.9 | 20 |
| 81 | NANOPARTICLES-BASED WOOD PRESERVATIVES: THE NEXT GENERATION OF WOOD PROTECTION?. *Cerne*, **2018**, 24, 397-407 | 0.7 | 20 |
| 80 | Effect of colloidal silica on the mechanical properties of fiber-cement reinforced with cellulosic fibers. *Journal of Materials Science*, **2014**, 49, 7497-7506 | 4.3 | 19 |
| 79 | Curaua and eucalyptus nanofiber films by continuous casting: mixture of cellulose nanocrystals and nanofibrils. *Cellulose*, **2019**, 26, 2453-2470 | 5.5 | 18 |
| 78 | Influence of hemicellulose content of Eucalyptus and Pinus fibers on the grinding process for obtaining cellulose micro/nanofibrils. *Holzforschung*, **2019**, 73, 1035-1046 | 2 | 18 |
| 77 | Non-conventional cement-based composites reinforced with vegetable fibers: A review of strategies to improve durability. *Materiales De Construccion*, **2015**, 65, e041 | 1.8 | 18 |
| 76 | Sisal organosolv pulp as reinforcement for cement based composites. *Materials Research*, **2009**, 12, 305-314 | 1.5 | 17 |
| 75 | Polyester Composites Reinforced with Corona-Treated Fibers from Pine, Eucalyptus and Sugarcane Bagasse. *Journal of Polymers and the Environment*, **2017**, 25, 800-811 | 4.5 | 15 |
| 74 | Spraying Cellulose Nanofibrils for Improvement of Tensile and Barrier Properties of Writing & Printing (W&P) Paper. *Journal of Wood Chemistry and Technology*, **2018**, 38, 233-245 | 2 | 15 |
| 73 | Rationalizing the impact of aging on fiber-matrix interface and stability of cement-based composites submitted to carbonation at early ages. *Journal of Materials Science*, **2016**, 51, 7929-7943 | 4.3 | 15 |
| 72 | Incorporation of bamboo particles and synthetic termite saliva in adobes. *Construction and Building Materials*, **2015**, 98, 250-256 | 6.7 | 14 |
| 71 | Influence of cellulose viscosity and residual lignin on water absorption of nanofibril films. *Procedia Engineering*, **2017**, 200, 155-161 | | 14 |
| 70 | Thermal performance of sisal fiber-cement roofing tiles for rural constructions. *Scientia Agricola*, **2011**, 68, 1-7 | 2.5 | 13 |

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| 69 | Redispersion and structural change evaluation of dried microfibrillated cellulose. *Carbohydrate Polymers*, **2021**, 252, 117165 | 10.3 | 13 |
| 68 | Characterization of cassava starch/soy protein isolate blends obtained by extrusion and thermocompression. *Industrial Crops and Products*, **2021**, 160, 113092 | 5.9 | 13 |
| 67 | Study of morphological properties and rheological parameters of cellulose nanofibrils of cocoa shell (Theobroma cacao L.). *Carbohydrate Polymers*, **2019**, 214, 152-158 | 10.3 | 12 |
| 66 | Effect of multi-branched PDLA additives on the mechanical and thermomechanical properties of blends with PLLA. *Journal of Applied Polymer Science*, **2016**, 133, n/a-n/a | 2.9 | 12 |
| 65 | Correla�s can�icas entre as caracter�ticas qu�icas e energ�icas de res�uos lignocelul�icos. *Cerne*, **2012**, 18, 433-439 | 0.7 | 12 |
| 64 | How the surface wettability and modulus of elasticity of the Amazonian paric�nanofibrils films are affected by the chemical changes of the natural fibers. *European Journal of Wood and Wood Products*, **2018**, 76, 1581-1594 | 2.1 | 12 |
| 63 | Impact of different silkworm dietary supplements on its silk performance. *Journal of Materials Science*, **2014**, 49, 6302-6310 | 4.3 | 11 |
| 62 | Different ageing conditions on cementitious roofing tiles reinforced with alternative vegetable and synthetic fibres. *Materials and Structures/Materiaux Et Constructions*, **2014**, 47, 433-446 | 3.4 | 11 |
| 61 | STRENGTH IMPROVEMENT OF HYDROXYPROPYL METHYLCELLULOSE/ STARCH FILMS USING CELLULOSE NANOCRYSTALS. *Cerne*, **2017**, 23, 423-434 | 0.7 | 10 |
| 60 | Modification of eucalyptus pulp fiber using silane coupling agents with aliphatic side chains of different length. *Polymer Engineering and Science*, **2015**, 55, 1273-1280 | 2.3 | 10 |
| 59 | Artificial neural network and partial least square regressions for rapid estimation of cellulose pulp dryness based on near infrared spectroscopic data. *Carbohydrate Polymers*, **2019**, 224, 115186 | 10.3 | 9 |
| 58 | Cellulose Associated with Pet Bottle Waste in Cement Based Composites. *Materials Research*, **2017**, 20, 1380-1387 | 1.5 | 9 |
| 57 | New products made with lignocellulosic nanofibers from Brazilian amazon forest. *IOP Conference Series: Materials Science and Engineering*, **2014**, 64, 012012 | 0.4 | 9 |
| 56 | Lignocellulosic Composites Made from Agricultural and Forestry Wastes in Brazil. *Key Engineering Materials*, **2012**, 517, 556-563 | 0.4 | 9 |
| 55 | Carbonata� acelerada efetuada nas primeiras idades em comp�itos ciment�ios refor�dos com polpas celul�icas. *Ambiente Constru�o*, **2010**, 10, 233-246 | 0.4 | 9 |
| 54 | Activated carbons prepared by physical activation from different pretreatments of amazon piassava fibers. *Journal of Natural Fibers*, **2019**, 16, 961-976 | 1.8 | 9 |
| 53 | Influence of the initial moisture content on the carbonation degree and performance of fiber-cement composites. *Construction and Building Materials*, **2019**, 215, 22-29 | 6.7 | 8 |
| 52 | Desempenho de telhas de esc�ia de alto forno e fibras vegetais em prot�ipos de galp�s. *Revista Brasileira De Engenharia Agricola E Ambiental*, **2008**, 12, 536-539 | 0.9 | 8 |

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| 51 | Valorization of Jute Biomass: Performance of FiberCement Composites Extruded with Hybrid Reinforcement (Fibers and Nanofibrils). *Waste and Biomass Valorization*, **2021**, 12, 5743-5761 | 3.2 | 8 |
| 50 | Nanocellulose Films from Amazon Forest Wood Wastes: Structural and Thermal Properties. *Key Engineering Materials*, **2015**, 668, 110-117 | 0.4 | 7 |
| 49 | Massaranduba Sawdust: A Potential Source of Charcoal and Activated Carbon. *Polymers*, **2019**, 11, | 4.5 | 7 |
| 48 | Lignocellulosic residues in cement-bonded panels **2017**, 3-16 | | 7 |
| 47 | Cementitious Composites Reinforced with Kraft Pulping Waste. *Key Engineering Materials*, **2015**, 668, 390-398 | 0.4 | 7 |
| 46 | Hydrothermal treatment of strand particles of pine for the improvement of OSB panels. *European Journal of Wood and Wood Products*, **2018**, 76, 155-162 | 2.1 | 6 |
| 45 | Fiber-cement composites hydrated with carbonated water: Effect on physical-mechanical properties. *Cement and Concrete Research*, **2019**, 124, 105812 | 10.3 | 6 |
| 44 | Chemical treatment of banana tree pseudostem particles aiming the production of particleboards. *Ciencia E Agrotecnologia*, **2014**, 38, 43-49 | 1.6 | 6 |
| 43 | Surface properties of eucalyptus pulp fibres as reinforcement of cement-based composites. *Holzforschung*, **2010**, 64, | 2 | 6 |
| 42 | Active coatings of thermoplastic starch and chitosan with alpha-tocopherol/bentonite for special green coffee beans. *International Journal of Biological Macromolecules*, **2021**, 170, 810-819 | 7.9 | 6 |
| 41 | The effect of surface modifications with corona discharge in pinus and eucalyptus nanofibril films. *Cellulose*, **2018**, 25, 5017-5033 | 5.5 | 5 |
| 40 | Avalia da qualidade da madeira de Coffea arabica L. como fonte de bioenergia. *Cerne*, **2014**, 20, 541-549 | 0.7 | 5 |
| 39 | Tnicas multivariadas aplicadas avalia de resduos lignocelulsicos para a produ de bioenergia. *Ciencia Florestal*, **2013**, 23, | 1.1 | 5 |
| 38 | Bio-based films/nanopapers from lignocellulosic wastes for production of added-value micro-/nanomaterials. *Environmental Science and Pollution Research*, **2021**, 1 | 5.1 | 5 |
| 37 | Enhanced silk performance by enriching the silkworm diet with bordeaux mixture. *Journal of Materials Science*, **2017**, 52, 2684-2693 | 4.3 | 4 |
| 36 | Tannin-stabilized silver nanoparticles and citric acid added associated to cellulose nanofibrils: effect on film antimicrobial properties. *SN Applied Sciences*, **2019**, 1, 1 | 1.8 | 4 |
| 35 | Effect of Nano-silica Deposition on Cellulose Fibers on the Initial Hydration of the Portland Cement. *BioResources*, **2018**, 13, | 1.3 | 4 |
| 34 | Potential Use of Colloidal Silica in Cement Based Composites: Evaluation of the Mechanical Properties. *Key Engineering Materials*, **2012**, 517, 382-391 | 0.4 | 4 |

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| 33 | CELLULOSE NANOFIBRILS MODIFICATION WITH POLYANILINE AIMING AT ENHANCING ELECTRICAL PROPERTIES FOR APPLICATION IN FLEXIBLE ELECTRONICS. *Cellulose Chemistry and Technology*, **2019**, 53, 775-786 | 1.9 | 4 |
| 32 | Influence of thermal treatment of eucalyptus fibers on the physical-mechanical properties of extruded fiber-cement composites. *Materials Today: Proceedings*, **2020**, 31, S348-S352 | 1.4 | 3 |
| 31 | Monitoring the dynamics of Portland cement hydration through photoluminescence and other correlated spectroscopy techniques. *Construction and Building Materials*, **2020**, 252, 119073 | 6.7 | 3 |
| 30 | Influence of chemical pretreatments on plant fiber cell wall and their implications on the appearance of fiber dislocations. *Holzforschung*, **2020**, 74, 949-955 | 2 | 3 |
| 29 | Eucalyptus wood nanofibrils as reinforcement of carrageenan and starch biopolymers for improvement of physical properties. *Journal of Tropical Forest Science*, **2018**, 30, 292-303 | 1 | 3 |
| 28 | Cement-based corrugated sheets reinforced with polypropylene fibres subjected to a high-performance curing method. *Construction and Building Materials*, **2020**, 262, 120791 | 6.7 | 3 |
| 27 | Pretreatment Affects Activated Carbon from Piassava. *Polymers*, **2020**, 12, | 4.5 | 3 |
| 26 | POLYESTER COMPOSITES REINFORCED WITH MALEIC ANHYDRIDE-TREATED FILAMENTS FROM MAUVE. *Cerne*, **2018**, 24, 1-8 | 0.7 | 3 |
| 25 | New biodegradable film produced from cocoa shell nanofibrils containing bioactive compounds **2021**, 18, 1613 | | 3 |
| 24 | Addition of wheat straw nanofibrils to improve the mechanical and barrier properties of cassava starch‐based bionanocomposites. *Industrial Crops and Products*, **2021**, 170, 113816 | 5.9 | 3 |
| 23 | Functionally Graded MDP Panels Using Bamboo Particles. *Key Engineering Materials*, **2015**, 668, 39-47 | 0.4 | 2 |
| 22 | NaOH Treatment Impact in the Dimensional Stability of Banana Pseudostem Particleboard Panels. *Key Engineering Materials*, **2014**, 600, 447-451 | 0.4 | 2 |
| 21 | Relation of transverse air permeability with physical properties in different compositions of sugarcane bagasse particleboards. *Materials Research*, **2013**, 16, 150-157 | 1.5 | 2 |
| 20 | Effect of overlapping cellulose nanofibrils and nanoclay layers on mechanical and barrier properties of spray-coated papers. *Cellulose*, **2022**, 29, 1097-1113 | 5.5 | 2 |
| 19 | Resistência das madeiras de pinus, cedro australiano e seus produtos derivados ao ataque de Cryptotermes brevis. *Cerne*, **2014**, 20, 433-439 | 0.7 | 2 |
| 18 | Incorporação de Nanomateriais e emulsão de ceras no desenvolvimento de papéis multicamadas. *Scientia Forestalis/Forest Sciences*, **2019**, 47, | 1.1 | 2 |
| 17 | Optimizing cellulose microfibrillation with NaOH pretreatments for unbleached Eucalyptus pulp. *Cellulose*, **2021**, 28, 11519 | 5.5 | 2 |
| 16 | CELLULOSE SHEETS MADE FROM MICRO/NANOFIBRILLATED FIBERS OF BAMBOO, JUTE AND EUCALYPTUS CELLULOSE PULPS. *Cellulose Chemistry and Technology*, **2019**, 53, 291-305 | 1.9 | 2 |

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| 15 | Preparation and characterization of tannin-based adhesives reinforced with cellulose nanofibrils for wood bonding. *Holzforschung*, **2021**, 75, 159-167 | 2 | 2 |
| 14 | Coir and Sisal Fibers as Fillers in the Production of Eucalyptus Medium Density Particleboards - MDP. *Materials Research*, **2016**, 19, 1429-1436 | 1.5 | 2 |
| 13 | Main Characteristics of Underexploited Amazonian Palm Fibers for Using as Potential Reinforcing Materials. *Waste and Biomass Valorization*, **2019**, 10, 3125-3142 | 3.2 | 2 |
| 12 | Processing Changes of Cement Based Composites Reinforced with Silane and Isocyanate Eucalyptus Modified Fibres. *Key Engineering Materials*, **2012**, 517, 437-449 | 0.4 | 1 |
| 11 | Evaluation of changes in cellulose micro/nanofibrils structure under chemical and enzymatic pre-treatments. *Holzforschung*, **2021**, | 2 | 1 |
| 10 | Exfoliating Agents for Skincare Soaps Obtained from the Crabwood Waste Bagasse, a Natural Abrasive from Amazonia. *Waste and Biomass Valorization*, **2021**, 12, 4441 | 3.2 | 1 |
| 9 | Procurement and Characterization of Biodegradable Films made from Blends of Eucalyptus, Pine and Cocoa Bean Shell Nanocelluloses. *Waste and Biomass Valorization*, | 3.2 | 1 |
| 8 | Copaiba oil and vegetal tannin as functionalizing agents for a�i nanofibril films: valorization of forest wastes from Amazonia.. *Environmental Science and Pollution Research*, **2022**, 1 | 5.1 | 1 |
| 7 | Investigation of dispersion methodologies of microcrystalline and nano-fibrillated cellulose on cement pastes. *Cement and Concrete Composites*, **2022**, 126, 104351 | 8.6 | 0 |
| 6 | Optimization of Cellulose Nanofibril Production under Enzymatic Pretreatment and Evaluation of Dislocations in Plant Fibers. *Fibers and Polymers*, **2021**, 22, 1810-1821 | 2 | 0 |
| 5 | Impact of nanosilica deposited on cellulose pulp fibers surface on hydration and fiber-cement compressive strength. *Construction and Building Materials*, **2022**, 326, 126847 | 6.7 | 0 |
| 4 | Use of Castor Hull and Sugarcane Bagasse in Particulate Composites. *Key Engineering Materials*, **2015**, 668, 381-389 | 0.4 | |
| 3 | Inclusion of Lignocellulosic Fibers in Plastic Composites. *Key Engineering Materials*, **2014**, 600, 442-446 | 0.4 | |
| 2 | Coir fiber as reinforcement in cement-based materials **2022**, 707-739 | | |
| 1 | Superabsorbent ability polymer to reduce the bulk density of extruded cement boards. *Journal of Building Engineering*, **2021**, 43, 103130 | 5.2 | |