

Hao Wang

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1854267/publications.pdf>

Version: 2024-02-01

234
papers

21,508
citations

7069

78
h-index

10424

139
g-index

235
all docs

235
docs citations

235
times ranked

14799
citing authors

#	ARTICLE	IF	CITATIONS
1	A review on the tensile properties of natural fiber reinforced polymer composites. Composites Part B: Engineering, 2011, 42, 856-873.	5.9	1,708
2	Chemical treatments on plant-based natural fibre reinforced polymer composites: An overview. Composites Part B: Engineering, 2012, 43, 2883-2892.	5.9	1,192
3	Fly ash-based geopolymer: clean production, properties and applications. Journal of Cleaner Production, 2016, 125, 253-267.	4.6	629
4	Geopolymer foam concrete: An emerging material for sustainable construction. Construction and Building Materials, 2014, 56, 113-127.	3.2	594
5	Critical factors on manufacturing processes of natural fibre composites. Composites Part B: Engineering, 2012, 43, 3549-3562.	5.9	452
6	Phosphorus-containing flame retardant epoxy thermosets: Recent advances and future perspectives. Progress in Polymer Science, 2021, 114, 101366.	11.8	421
7	Flame retardant polymeric nanocomposites through the combination of nanomaterials and conventional flame retardants. Progress in Materials Science, 2020, 114, 100687.	16.0	415
8	Mechanical, thermal insulation, thermal resistance and acoustic absorption properties of geopolymer foam concrete. Cement and Concrete Composites, 2015, 62, 97-105.	4.6	398
9	Current status of carbon fibre and carbon fibre composites recycling. Composites Part B: Engineering, 2020, 193, 108053.	5.9	374
10	Fly ash-based geopolymers: The relationship between composition, pore structure and efflorescence. Cement and Concrete Research, 2014, 64, 30-41.	4.6	341
11	Quantitative kinetic and structural analysis of geopolymers. Part 1. The activation of metakaolin with sodium hydroxide. Thermochimica Acta, 2012, 539, 23-33.	1.2	330
12	A review of extending performance of epoxy resins using carbon nanomaterials. Composites Part B: Engineering, 2018, 136, 197-214.	5.9	326
13	Realizing zT of 2.3 in $\text{Ge}_{1-x}\text{Sb}_x\text{In}_y\text{Te}_{316}$ via Reducing the Phase Transition Temperature and Introducing Resonant Energy Doping. Advanced Materials, 2018, 30, 1705942.	11.1	316
14	Improved flame resistance and thermo-mechanical properties of epoxy resin nanocomposites from functionalized graphene oxide via self-assembly in water. Composites Part B: Engineering, 2019, 165, 406-416.	5.9	308
15	High-Performance Polymeric Materials through Hydrogen-Bond Cross-Linking. Advanced Materials, 2020, 32, e1901244.	11.1	292
16	Current applications of poly(lactic acid) composites in tissue engineering and drug delivery. Composites Part B: Engineering, 2020, 199, 108238.	5.9	277
17	Effects of chemical treatments on hemp fibre structure. Applied Surface Science, 2013, 276, 13-23.	3.1	270
18	Autogenous shrinkage of high performance concrete: A review. Construction and Building Materials, 2017, 149, 62-75.	3.2	266

#	ARTICLE	IF	CITATIONS
19	Lignin-derived bio-based flame retardants toward high-performance sustainable polymeric materials. <i>Green Chemistry</i> , 2020, 22, 2129-2161.	4.6	249
20	Effect of graphene nanosheets on morphology, thermal stability and flame retardancy of epoxy resin. <i>Composites Science and Technology</i> , 2014, 90, 40-47.	3.8	208
21	Polyphosphoramidate-intercalated MXene for simultaneously enhancing thermal stability, flame retardancy and mechanical properties of polylactide. <i>Chemical Engineering Journal</i> , 2020, 397, 125336.	6.6	207
22	Conversion of local industrial wastes into greener cement through geopolymer technology: A case study of high-magnesium nickel slag. <i>Journal of Cleaner Production</i> , 2017, 141, 463-471.	4.6	197
23	Bioinspired, Highly Adhesive, Nanostructured Polymeric Coatings for Superhydrophobic Fire-Extinguishing Thermal Insulation Foam. <i>ACS Nano</i> , 2021, 15, 11667-11680.	7.3	195
24	Improvement on the properties of polylactic acid (PLA) using bamboo charcoal particles. <i>Composites Part B: Engineering</i> , 2015, 81, 14-25.	5.9	190
25	Geopolymer, green alkali activated cementitious material: Synthesis, applications and challenges. <i>Construction and Building Materials</i> , 2019, 224, 930-949.	3.2	190
26	Super-tough artificial nacre based on graphene oxide via synergistic interface interactions of π - π stacking and hydrogen bonding. <i>Carbon</i> , 2017, 111, 807-812.	5.4	178
27	Geopolymer from kaolin in China: An overview. <i>Applied Clay Science</i> , 2016, 119, 31-41.	2.6	172
28	Mechanical properties of chemically-treated hemp fibre reinforced sandwich composites. <i>Composites Part B: Engineering</i> , 2012, 43, 159-169.	5.9	171
29	Quantitative kinetic and structural analysis of geopolymers. Part 2. Thermodynamics of sodium silicate activation of metakaolin. <i>Thermochimica Acta</i> , 2013, 565, 163-171.	1.2	170
30	A highly fire-safe and smoke-suppressive single-component epoxy resin with switchable curing temperature and rapid curing rate. <i>Composites Part B: Engineering</i> , 2021, 207, 108601.	5.9	170
31	A review on mixture design methods for geopolymer concrete. <i>Composites Part B: Engineering</i> , 2019, 178, 107490.	5.9	164
32	Surface-coating engineering for flame retardant flexible polyurethane foams: A critical review. <i>Composites Part B: Engineering</i> , 2019, 176, 107185.	5.9	163
33	Bio-corrosion of a magnesium alloy with different processing histories. <i>Materials Letters</i> , 2008, 62, 2476-2479.	1.3	161
34	Arrays of Planar Vacancies in Superior Thermoelectric $\text{Ge}_{1-x}\text{Sb}_x\text{Te}$ with Band Convergence. <i>Advanced Energy Materials</i> , 2018, 8, 1801837.	4.6	161
35	Water absorption and chloride diffusivity of concrete under the coupling effect of uniaxial compressive load and freeze-thaw cycles. <i>Construction and Building Materials</i> , 2019, 209, 566-576.	3.2	161
36	Bioinspired Design of Strong, Tough, and Thermally Stable Polymeric Materials via Nanoconfinement. <i>ACS Nano</i> , 2018, 12, 9266-9278.	7.3	157

#	ARTICLE	IF	CITATIONS
37	A bio-based ionic complex with different oxidation states of phosphorus for reducing flammability and smoke release of epoxy resins. <i>Composites Communications</i> , 2020, 17, 104-108.	3.3	155
38	Flame-retardant, transparent, mechanically-strong and tough epoxy resin enabled by high-efficiency multifunctional boron-based polyphosphonamide. <i>Chemical Engineering Journal</i> , 2022, 427, 131578.	6.6	153
39	Engineering MXene surface with POSS for reducing fire hazards of polystyrene with enhanced thermal stability. <i>Journal of Hazardous Materials</i> , 2021, 401, 123342.	6.5	151
40	The Effect of Pre-processing and Grain Structure on the Bio-corrosion and Fatigue Resistance of Magnesium Alloy AZ31. <i>Advanced Engineering Materials</i> , 2007, 9, 967-972.	1.6	148
41	Using fly ash to partially substitute metakaolin in geopolymer synthesis. <i>Applied Clay Science</i> , 2014, 88-89, 194-201.	2.6	145
42	Fire-Resistant, Strong, and Green Polymer Nanocomposites Based on Poly(lactic acid) and Core-Shell Nanofibrous Flame Retardants. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 7894-7904.	3.2	142
43	A hyperbranched P/N/B-containing oligomer as multifunctional flame retardant for epoxy resins. <i>Composites Part B: Engineering</i> , 2022, 234, 109701.	5.9	140
44	Use of FBG Sensors for SHM in Aerospace Structures. <i>Photonic Sensors</i> , 2012, 2, 203-214.	2.5	138
45	Granular Nanostructure: A Facile Biomimetic Strategy for the Design of Supertough Polymeric Materials with High Ductility and Strength. <i>Advanced Materials</i> , 2017, 29, 1704661.	11.1	135
46	Efflorescence and subflorescence induced microstructural and mechanical evolution in fly ash-based geopolymers. <i>Cement and Concrete Composites</i> , 2018, 92, 165-177.	4.6	134
47	Functionalizing MXene towards highly stretchable, ultratough, fatigue- and fire-resistant polymer nanocomposites. <i>Chemical Engineering Journal</i> , 2021, 424, 130338.	6.6	130
48	Lightweight high-performance carbon-polymer nanocomposites for electromagnetic interference shielding. <i>Composites Part A: Applied Science and Manufacturing</i> , 2021, 145, 106376.	3.8	126
49	The study of fibre/matrix bond strength in short hemp polypropylene composites from dynamic mechanical analysis. <i>Composites Part B: Engineering</i> , 2014, 62, 19-28.	5.9	124
50	Synthesis and Characterization of Novel Soybean-Oil-Based Elastomers with Favorable Processability and Tunable Properties. <i>Macromolecules</i> , 2012, 45, 9010-9019.	2.2	123
51	Tensile properties of chemically treated hemp fibres as reinforcement for composites. <i>Composites Part B: Engineering</i> , 2013, 53, 362-368.	5.9	123
52	Synthesis of decorated graphene with P, N-containing compounds and its flame retardancy and smoke suppression effects on polylactic acid. <i>Composites Part B: Engineering</i> , 2019, 170, 41-50.	5.9	123
53	Recent advances in clay mineral-containing nanocomposite hydrogels. <i>Soft Matter</i> , 2015, 11, 9229-9246.	1.2	121
54	Quantitative study of the reactivity of fly ash in geopolymerization by FTIR. <i>Journal of Sustainable Cement-Based Materials</i> , 2012, 1, 154-166.	1.7	119

#	ARTICLE	IF	CITATIONS
55	Realizing simultaneous improvements in mechanical strength, flame retardancy and smoke suppression of ABS nanocomposites from multifunctional graphene. <i>Composites Part B: Engineering</i> , 2019, 177, 107377.	5.9	117
56	A facile way to prepare phosphorus-nitrogen-functionalized graphene oxide for enhancing the flame retardancy of epoxy resin. <i>Composites Communications</i> , 2018, 10, 97-102.	3.3	115
57	Compositional, microstructural and mechanical properties of ambient condition cured alkali-activated cement. <i>Construction and Building Materials</i> , 2016, 113, 237-245.	3.2	112
58	One-pot scalable fabrication of an oligomeric phosphoramidate towards high-performance flame retardant polylactic acid with a submicron-grained structure. <i>Composites Part B: Engineering</i> , 2020, 183, 107695.	5.9	112
59	Fourier transform infrared spectroscopy analysis for hydrothermal transformation of microcrystalline cellulose on montmorillonite. <i>Applied Clay Science</i> , 2014, 95, 74-82.	2.6	110
60	Transparent, highly thermostable and flame retardant polycarbonate enabled by rod-like phosphorous-containing metal complex aggregates. <i>Chemical Engineering Journal</i> , 2021, 409, 128223.	6.6	109
61	Enhanced thermoelectric properties of nanostructured n-type Bi ₂ Te ₃ by suppressing Te vacancy through non-equilibrium fast reaction. <i>Chemical Engineering Journal</i> , 2020, 391, 123513.	6.6	108
62	Toward an indexing approach to evaluate fly ashes for geopolymers manufacture. <i>Cement and Concrete Research</i> , 2016, 85, 163-173.	4.6	107
63	Synergistic flame retardancy effect of graphene nanosheets and traditional retardants on epoxy resin. <i>Composites Part A: Applied Science and Manufacturing</i> , 2016, 89, 26-32.	3.8	103
64	Dynamic Nanoconfinement Enabled Highly Stretchable and Supratough Polymeric Materials with Desirable Healability and Biocompatibility. <i>Advanced Materials</i> , 2021, 33, e2105829.	11.1	102
65	Effect of drying procedures on pore structure and phase evolution of alkali-activated cements. <i>Cement and Concrete Composites</i> , 2019, 96, 194-203.	4.6	95
66	Functional Carbon Nitride Materials in Photo-Fenton-Like Catalysis for Environmental Remediation. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	93
67	Mechanical property and structure of alkali-activated fly ash and slag blends. <i>Journal of Sustainable Cement-Based Materials</i> , 2012, 1, 167-178.	1.7	91
68	High Porosity in Nanostructured n-Type Bi ₂ Te ₃ Obtaining Ultralow Lattice Thermal Conductivity. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 31237-31244.	4.0	91
69	High performance epoxy resin composites modified with multifunctional thiophene/phosphaphenanthrene-based flame retardant: Excellent flame retardance, strong mechanical property and high transparency. <i>Composites Part B: Engineering</i> , 2021, 227, 109392.	5.9	91
70	A Liquid Phosphaphenanthrene-Derived Imidazole for Improved Flame Retardancy and Smoke Suppression of Epoxy Resin. <i>ACS Applied Polymer Materials</i> , 2020, 2, 3566-3575.	2.0	88
71	Grafting Lignin with Bioderived Polyacrylates for Low-Cost, Ductile, and Fully Biobased Poly(lactic acid) Composites. <i>ACS Applied Polymer Materials</i> , 2021, 3, 3123-3134.	3.2	87
72	Flame retardant and mechanically tough poly(lactic acid) biocomposites via combining ammonia polyphosphate and polyethylene glycol. <i>Composites Communications</i> , 2017, 6, 1-5.	3.3	83

#	ARTICLE	IF	CITATIONS
73	Utilization of fibers in ultra-high performance concrete: A review. <i>Composites Part B: Engineering</i> , 2022, 241, 109995.	5.9	83
74	Potential application of geopolymers as protection coatings for marine concrete III. Field experiment. <i>Applied Clay Science</i> , 2012, 67-68, 57-60.	2.6	82
75	Effects of halloysite in kaolin on the formation and properties of geopolymers. <i>Cement and Concrete Composites</i> , 2012, 34, 709-715.	4.6	81
76	Superior flame retardancy of epoxy resin by the combined addition of graphene nanosheets and DOPO. <i>RSC Advances</i> , 2016, 6, 5288-5295.	1.7	81
77	2D-alumina platelets enhance mechanical and abrasion properties of PA612 via interfacial hydrogen-bond interactions. <i>Chemical Engineering Journal</i> , 2017, 308, 760-771.	6.6	81
78	Manipulating interphase reactions for mechanically robust, flame-retardant and sustainable polylactide biocomposites. <i>Composites Part B: Engineering</i> , 2020, 190, 107930.	5.9	81
79	Bio-inspired, sustainable and mechanically robust graphene oxide-based hybrid networks for efficient fire protection and warning. <i>Chemical Engineering Journal</i> , 2022, 439, 134516.	6.6	81
80	An Adaptive Biointerface from Self-Assembled Functional Peptides for Tissue Engineering. <i>Advanced Materials</i> , 2015, 27, 3181-3188.	11.1	80
81	Fire safety of composites in prefabricated buildings: From fibre reinforced polymer to textile reinforced concrete. <i>Composites Part B: Engineering</i> , 2020, 187, 107815.	5.9	80
82	Fire Intumescent, High-Temperature Resistant, Mechanically Flexible Graphene Oxide Network for Exceptional Fire Shielding and Ultra-Fast Fire Warning. <i>Nano-Micro Letters</i> , 2022, 14, 92.	14.4	79
83	The development of a new grain refiner for magnesium alloys using the edge-to-edge model. <i>Journal of Alloys and Compounds</i> , 2008, 456, 390-394.	2.8	76
84	Recent progress of utilization of activated kaolinitic clay in cementitious construction materials. <i>Composites Part B: Engineering</i> , 2021, 211, 108636.	5.9	76
85	Green and Facile Synthesis of Bio-Based, Flame-Retardant, Latent Imidazole Curing Agent for Single-Component Epoxy Resin. <i>ACS Applied Polymer Materials</i> , 2022, 4, 3564-3574.	2.0	76
86	Kinetics and mechanism of synergistic adsorption and persulfate activation by N-doped porous carbon for antibiotics removals in single and binary solutions. <i>Journal of Hazardous Materials</i> , 2022, 423, 127083.	6.5	74
87	Efflorescence of Alkali-Activated Cements (Geopolymers) and the Impacts on Material Structures: A Critical Analysis. <i>Frontiers in Materials</i> , 2019, 6, .	1.2	72
88	One-Pot, Solvent- and Catalyst-Free Synthesis of Polyphosphoramidate as an Eco-Benign and Effective Flame Retardant for Poly(lactic acid). <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 16612-16623.	3.2	72
89	Effects of acid treatments on bamboo cellulose nanocrystals. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2014, 9, 686-695.	0.8	70
90	<i>In vitro</i> biodegradation behavior of magnesium and magnesium alloy. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2011, 98B, 203-209.	1.6	69

#	ARTICLE	IF	CITATIONS
91	Fire-retardant unsaturated polyester thermosets: The state-of-the-art, challenges and opportunities. <i>Chemical Engineering Journal</i> , 2022, 430, 132785.	6.6	69
92	Poly(lactide)/hemp hurd biocomposites as sustainable 3D printing feedstock. <i>Composites Science and Technology</i> , 2019, 184, 107887.	3.8	68
93	Effects of indium addition on properties and wettability of Sn-0.7Cu-0.2Ni lead-free solders. <i>Materials & Design</i> , 2014, 64, 15-20.	5.1	67
94	Formation of multi-shelled nickel-based sulfide hollow spheres for rechargeable alkaline batteries. <i>Inorganic Chemistry Frontiers</i> , 2018, 5, 535-540.	3.0	66
95	A novel hyperbranched phosphorus-boron polymer for transparent, flame-retardant, smoke-suppressive, robust yet tough epoxy resins. <i>Composites Part B: Engineering</i> , 2021, 227, 109395.	5.9	66
96	Reinforcement of polypropylene with hemp fibres. <i>Composites Part B: Engineering</i> , 2013, 46, 221-226.	5.9	65
97	Clean production of CTAB-montmorillonite: formation mechanism and swelling behavior in xylene. <i>Applied Clay Science</i> , 2014, 97-98, 222-234.	2.6	64
98	Bioinspired Design and Assembly of Layered Double Hydroxide/Poly(vinyl alcohol) Film with High Mechanical Performance. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 15154-15161.	4.0	64
99	A reactive copper-organophosphate-MXene heterostructure enabled antibacterial, self-extinguishing and mechanically robust polymer nanocomposites. <i>Chemical Engineering Journal</i> , 2022, 430, 132712.	6.6	64
100	Characteristics of a silk fibre reinforced biodegradable plastic. <i>Composites Part B: Engineering</i> , 2011, 42, 117-122.	5.9	62
101	Synthesis of an intrinsically flame retardant bio-based benzoxazine resin. <i>Polymer</i> , 2016, 97, 418-427.	1.8	62
102	Vibration damping characteristics of short hemp fibre thermoplastic composites. <i>Journal of Reinforced Plastics and Composites</i> , 2014, 33, 330-341.	1.6	61
103	Observation and Prediction of the Hot Tear Susceptibility of Ternary Al-Si-Mg Alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2012, 43, 3227-3238.	1.1	60
104	Effect of graphene nanosheets and layered double hydroxides on the flame retardancy and thermal degradation of epoxy resin. <i>RSC Advances</i> , 2014, 4, 18652-18659.	1.7	60
105	The Pore Characteristics of Geopolymer Foam Concrete and Their Impact on the Compressive Strength and Modulus. <i>Frontiers in Materials</i> , 2016, 3, .	1.2	60
106	One-step and green synthesis of a bio-based high-efficiency flame retardant for poly (lactic acid). <i>Polymer Degradation and Stability</i> , 2021, 192, 109696.	2.7	59
107	A Si-containing polyphosphoramidate via green chemistry for fire-retardant poly(lactide) with well-preserved mechanical and transparent properties. <i>Chemical Engineering Journal</i> , 2022, 431, 134259.	6.6	59
108	New selective dissolution process to quantify reaction extent and product stability in metakaolin-based geopolymers. <i>Composites Part B: Engineering</i> , 2019, 176, 107172.	5.9	58

#	ARTICLE	IF	CITATIONS
109	Interfacial bonding and degumming effects on silk fibre/polymer biocomposites. <i>Composites Part B: Engineering</i> , 2012, 43, 2801-2812.	5.9	57
110	Effect of degumming time on silkworm silk fibre for biodegradable polymer composites. <i>Applied Surface Science</i> , 2012, 258, 3948-3955.	3.1	53
111	Multifunctional polyurethane sponge coatings with excellent flame retardant, antibacterial, compressible, and recyclable properties. <i>Composites Part B: Engineering</i> , 2021, 215, 108785.	5.9	53
112	Deposition growth of Zr-based MOFs on cerium phenylphosphonate lamella towards enhanced thermal stability and fire safety of polycarbonate. <i>Composites Part B: Engineering</i> , 2020, 197, 108064.	5.9	53
113	Study of acidic degradation of alkali-activated materials using synthetic C-(N)-A-S-H and N-A-S-H gels. <i>Composites Part B: Engineering</i> , 2022, 230, 109510.	5.9	53
114	Synthesis and mechanical properties of Cu-based bulk metallic glass composites containing in-situ TiC particles. <i>Scripta Materialia</i> , 2005, 52, 669-673.	2.6	50
115	Antibacterial Properties of Hemp and Other Natural Fibre Plants: A Review. <i>BioResources</i> , 2014, 9, .	0.5	50
116	Thermally stable, conductive and flame-retardant nylon 612 composites created by adding two-dimensional alumina platelets. <i>Composites Part A: Applied Science and Manufacturing</i> , 2017, 97, 100-110.	3.8	50
117	Strong, Ultrafast, Reprogrammable Hydrogel Actuators with Muscle-Mimetic Aligned Fibrous Structures. <i>Chemistry of Materials</i> , 2021, 33, 7818-7828.	3.2	49
118	Flame retarding and reinforcing modification of ramie/polybenzoxazine composites by surface treatment of ramie fabric. <i>Composites Science and Technology</i> , 2015, 121, 82-88.	3.8	47
119	A biomimetic multifunctional electronic hair sensor. <i>Journal of Materials Chemistry A</i> , 2019, 7, 1889-1896.	5.2	47
120	Facile one-pot synthesis of MOF supported gold pseudo-single-atom catalysts for hydrogenation reactions. <i>Materials Chemistry Frontiers</i> , 2018, 2, 1024-1030.	3.2	46
121	Hydration mechanisms and durability of hybrid alkaline cements (HACs): A review. <i>Construction and Building Materials</i> , 2021, 266, 121039.	3.2	46
122	Glycidyl methacrylate-compatible poly(lactic acid)/hemp hurd biocomposites: Processing, crystallization, and thermo-mechanical response. <i>Journal of Materials Science and Technology</i> , 2018, 34, 387-397.	5.6	44
123	Processing and properties of antibacterial silver nanoparticle-loaded hemp hurd/poly(lactic acid) biocomposites. <i>Composites Part B: Engineering</i> , 2016, 100, 10-18.	5.9	43
124	Enhanced removals of micropollutants in binary organic systems by biomass derived porous carbon/peroxymonosulfate. <i>Journal of Hazardous Materials</i> , 2021, 408, 124459.	6.5	41
125	Novel hydrothermal carbonization of cellulose catalyzed by montmorillonite to produce kerogen-like hydrochar. <i>Cellulose</i> , 2014, 21, 2845-2857.	2.4	39
126	Enhanced mechanical properties at 400°C of carbon fabric reinforced phthalonitrile composites by high temperature postcure. <i>Composites Part B: Engineering</i> , 2019, 166, 681-687.	5.9	39

#	ARTICLE	IF	CITATIONS
127	Small multiamine molecule enabled fire-retardant polymeric materials with enhanced strength, toughness, and self-healing properties. <i>Chemical Engineering Journal</i> , 2022, 440, 135645.	6.6	38
128	Water governs the mechanical properties of poly(vinyl alcohol). <i>Polymer</i> , 2021, 213, 123330.	1.8	37
129	Orientated growth of copper-based MOF for acetylene storage. <i>Chemical Engineering Journal</i> , 2019, 357, 320-327.	6.6	36
130	Chloride diffusion in alkali-activated fly ash/slag concretes: Role of slag content, water/binder ratio, alkali content and sand-aggregate ratio. <i>Construction and Building Materials</i> , 2020, 261, 119940.	3.2	36
131	Carbon nitride-based Z-scheme heterojunctions for solar-driven advanced oxidation processes. <i>Journal of Hazardous Materials</i> , 2022, 434, 128866.	6.5	36
132	Novel self-supporting zeolitic block with tunable porosity and crystallinity for water treatment. <i>Materials Letters</i> , 2016, 178, 151-154.	1.3	35
133	Activated carbon derived from bio-waste hemp hurd and retted hemp hurd for CO ₂ adsorption. <i>Composites Communications</i> , 2017, 5, 27-30.	3.3	35
134	Pultruded GFRP square hollow columns with bolted sleeve joints under eccentric compression. <i>Composites Part B: Engineering</i> , 2019, 162, 274-282.	5.9	35
135	Corrosion behavior of the reinforcement in chloride-contaminated alkali-activated fly ash pore solution. <i>Composites Part B: Engineering</i> , 2021, 224, 109215.	5.9	35
136	Predicting the flow stress behavior of Ni-42.5Ti-3Cu during hot deformation using constitutive equations. <i>Metals and Materials International</i> , 2013, 19, 5-9.	1.8	34
137	A nitrogen heterocyclic/phosphaphenanthrene derivative as a reactive additive for simultaneous improvement of flame retardancy, mechanical and dielectric properties of epoxy resins. <i>Polymer Degradation and Stability</i> , 2022, 199, 109909.	2.7	34
138	Antibacterial properties of hemp hurd powder against <i>E. coli</i> . <i>Journal of Applied Polymer Science</i> , 2015, 132, .	1.3	33
139	Enhanced toughness of PLLA/PCL blends using poly(d-lactide)-poly(ϵ -caprolactone)-poly(d-lactide) as compatibilizer. <i>Composites Communications</i> , 2020, 21, 100385.	3.3	32
140	Improved enzymatic activity by oriented immobilization on graphene oxide with tunable surface heterogeneity. <i>Composites Part B: Engineering</i> , 2021, 216, 108788.	5.9	32
141	Turning sandstone clay into supplementary cementitious material: activation and pozzolanic reactivity evaluation. <i>Composites Part B: Engineering</i> , 2021, 223, 109137.	5.9	32
142	Bioinspired, Strong, and Tough Nanostructured Poly(vinyl alcohol)/Inositol Composites: How Hydrogen-Bond Cross-Linking Works?. <i>Macromolecules</i> , 2021, 54, 9510-9521.	2.2	32
143	A phosphorus/silicon-based, hyperbranched polymer for high-performance, fire-safe, transparent epoxy resins. <i>Polymer Degradation and Stability</i> , 2022, 203, 110065.	2.7	32
144	Effects of Nd on microstructures and properties at the elevated temperature of a Mg-0.3Zn-0.32Zr alloy. <i>Materials & Design</i> , 2010, 31, 4438-4444.	5.1	30

#	ARTICLE	IF	CITATIONS
145	Construction of multi-shelled Bi ₂ WO ₆ hollow microspheres with enhanced visible light photo-catalytic performance. <i>Materials Research Bulletin</i> , 2018, 99, 331-335.	2.7	29
146	Alkali leaching features of 3-year-old alkali activated fly ash-slag-silica fume: For a better understanding of stability. <i>Composites Part B: Engineering</i> , 2022, 230, 109469.	5.9	26
147	Degradable, Recyclable, Water-Resistant, and Eco-Friendly Poly(vinyl alcohol)-Based Supramolecular Plastics. , 2022, 4, 1132-1138.		26
148	Effects of Carbon Nanotubes and Metal Catalysts on Hydrogen Storage in Magnesium Nanocomposites. <i>Journal of Nanoscience and Nanotechnology</i> , 2006, 6, 494-498.	0.9	25
149	Magnesium and Magnesium Alloys as Degradable Metallic Biomaterials. <i>Advanced Materials Research</i> , 0, 32, 207-210.	0.3	25
150	Acid-activated and WO ₃ -loaded montmorillonite catalysts and their catalytic behaviors in glycerol dehydration. <i>Chinese Journal of Catalysis</i> , 2017, 38, 1087-1100.	6.9	25
151	Recycled sand from sandstone waste: A new source of high-quality fine aggregate. <i>Resources, Conservation and Recycling</i> , 2022, 179, 106116.	5.3	25
152	Use of fixed wavelength Fibre-Bragg Grating (FBG) filters to capture time domain data from the distorted spectrum of an embedded FBG sensor to estimate strain with an Artificial Neural Network. <i>Sensors and Actuators A: Physical</i> , 2013, 194, 1-7.	2.0	24
153	On the flameproof treatment of ramie fabrics using a spray-assisted layer-by-layer technique. <i>Polymer Degradation and Stability</i> , 2015, 121, 11-17.	2.7	24
154	Cu-based bulk amorphous alloy with larger glass-forming ability and supercooled liquid region. <i>Journal of Alloys and Compounds</i> , 2008, 458, 390-393.	2.8	23
155	Influence of casting temperature on the thermal stability of Cu- and Zr-based metallic glasses: Theoretical analysis and experiments. <i>Journal of Materials Research</i> , 2008, 23, 2714-2719.	1.2	23
156	Effect of surface modifications on the thermal and moisture behavior of wool fabric. <i>Applied Surface Science</i> , 2015, 342, 101-105.	3.1	23
157	Construction of multilayer coatings for flame retardancy of ramie fabric using layer-by-layer assembly. <i>Journal of Applied Polymer Science</i> , 2017, 134, 45556.	1.3	23
158	Advances and challenges in eco-benign fire-retardant polylactide. <i>Materials Today Physics</i> , 2021, 21, 100568.	2.9	23
159	Fabrication of flame retardant benzoxazine semi-biocomposites reinforced by ramie fabrics with bio-based flame retardant coating. <i>Polymer Composites</i> , 2018, 39, E480.	2.3	22
160	Structure, chain dynamics and mechanical properties of poly(vinyl alcohol)/phytic acid composites. <i>Composites Communications</i> , 2021, 28, 100970.	3.3	22
161	Extraction and processing of real time strain of embedded FBG sensors using a fixed filter FBG circuit and an artificial neural network. <i>Measurement: Journal of the International Measurement Confederation</i> , 2013, 46, 4045-4051.	2.5	21
162	Early hydration kinetics and microstructure development of hybrid alkali activated cements (HAACs) at room temperature. <i>Cement and Concrete Composites</i> , 2021, 123, 104200.	4.6	21

#	ARTICLE	IF	CITATIONS
163	Multi-aspect engineering properties and sustainability impacts of geopolymer pervious concrete. <i>Composites Part B: Engineering</i> , 2022, 242, 110035.	5.9	21
164	Effect of silk fiber to the mechanical and thermal properties of its biodegradable composites. <i>Journal of Applied Polymer Science</i> , 2013, 127, 2389-2396.	1.3	20
165	3D X-ray microtomography study on fibre breakage in noil hemp fibre reinforced polypropylene composites. <i>Composites Part B: Engineering</i> , 2013, 50, 239-246.	5.9	20
166	Highly active CeO ₂ hollow-shell spheres with Al doping. <i>Science China Materials</i> , 2017, 60, 646-653.	3.5	20
167	Mechanical properties of metakaolin-based geopolymer with glass fiber reinforcement and vibration preparation. <i>Journal of Non-Crystalline Solids</i> , 2020, 544, 120173.	1.5	20
168	Chloride binding behavior of synthesized reaction products in alkali-activated slag. <i>Composites Part B: Engineering</i> , 2022, 238, 109919.	5.9	20
169	Formation and mechanical properties of Mg ₆₅ Cu ₂₅ Er ₁₀ and Mg ₆₅ Cu ₁₅ Ag ₁₀ Er ₁₀ bulk amorphous alloys. <i>Journal of Alloys and Compounds</i> , 2005, 397, 202-206.	2.8	19
170	Engineering Interfaces toward High-Performance Polypropylene/Coir Fiber Biocomposites with Enhanced Friction and Wear Behavior. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 18453-18462.	3.2	19
171	Phase changes under efflorescence in alkali activated materials with mixed activators. <i>Construction and Building Materials</i> , 2021, 283, 122678.	3.2	19
172	Fabrication process optimization of hemp fibre-reinforced polypropylene composites. <i>Journal of Reinforced Plastics and Composites</i> , 2013, 32, 1504-1512.	1.6	17
173	Flame retardancy and mechanical properties of a novel intumescent flame-retardant unsaturated polyester. <i>Journal of Vinyl and Additive Technology</i> , 2016, 22, 350-355.	1.8	17
174	Cobalt hollow nanospheres: controlled synthesis, modification and highly catalytic performance for hydrolysis of ammonia borane. <i>Science Bulletin</i> , 2017, 62, 326-331.	4.3	17
175	Deformation Behavior of Semisolid A356 Alloy Prepared by Low Temperature Pouring. <i>Materials and Manufacturing Processes</i> , 2010, 25, 648-653.	2.7	16
176	Application of poly(diphenolic acid-phenyl phosphate)-based layer by layer nanocoating in flame retardant ramie fabrics. <i>Journal of Applied Polymer Science</i> , 2017, 134, .	1.3	16
177	A nitrogen-doped electrocatalyst from metal-organic framework-carbon nanotube composite. <i>Journal of Materials Research</i> , 2018, 33, 538-545.	1.2	16
178	Effect of width-thickness ratio on capacity of pultruded square hollow polymer columns. <i>Proceedings of the Institution of Civil Engineers: Structures and Buildings</i> , 2018, 171, 842-854.	0.4	16
179	A thermally insulating vermiculite nanosheet-epoxy nanocomposite paint as a fire-resistant wood coating. <i>Nanoscale Advances</i> , 2021, 3, 4235-4243.	2.2	16
180	Crystal Facet Engineering of Copper-Based Metal-Organic Frameworks with Inorganic Modulators. <i>Crystal Growth and Design</i> , 2021, 21, 926-934.	1.4	16

#	ARTICLE	IF	CITATIONS
181	Influence of casting temperature on microstructures and mechanical properties of Cu ₅₀ Zr _{45.5} Ti _{2.5} Y ₂ metallic glass prepared using copper mold casting. <i>Journal of Materials Research</i> , 2009, 24, 3108-3115.	1.2	15
182	Study on the surface temperature of fabric in the process of dynamic moisture liberation. <i>Fibers and Polymers</i> , 2014, 15, 2437-2440.	1.1	15
183	Effects of boron content on the microstructures and mechanical properties of reactive hot-pressed BxC-TiB ₂ -SiC composites. <i>Ceramics International</i> , 2019, 45, 19650-19657.	2.3	15
184	Sulfate radical-based advanced oxidation processes for water decontamination using biomass-derived carbon as catalysts. <i>Current Opinion in Chemical Engineering</i> , 2022, 37, 100838.	3.8	15
185	Effect of welan gum on the hydration and hardening of Portland cement. <i>Journal of Thermal Analysis and Calorimetry</i> , 2018, 131, 1277-1286.	2.0	14
186	Flame-retardant coating by alternate assembly of poly(vinylphosphonic acid) and polyethylenimine for ramie fabrics. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2014, 32, 305-314.	2.0	13
187	Controlled synthesis of silkworm cocoon-like γ -Fe ₂ O ₃ and its adsorptive properties for organic dyes and Cr(VI). <i>Materials Research Bulletin</i> , 2018, 100, 302-307.	2.7	13
188	Mechanical property and microstructure development in alkali activated fly ash slag blends due to efflorescence. <i>Construction and Building Materials</i> , 2022, 332, 127273.	3.2	13
189	Microstructure and melting properties of Ag-Cu in intermediate-temperature brazing alloys. <i>Rare Metals</i> , 2015, 34, 324-328.	3.6	12
190	A novel highly efficient intumescent flame-retardant polypropylene: Thermal degradation, flame retardance and mechanism. <i>Journal of Polymer Research</i> , 2022, 29, .	1.2	12
191	Effect of iron acetylacetonate on the crosslink structure, thermal and flammability properties of novel aromatic diamine-based benzoxazines containing cyano group. <i>RSC Advances</i> , 2015, 5, 18538-18545.	1.7	11
192	Impact Properties of the Chemically Treated Hemp Fibre Reinforced Polyester Composites. <i>Fibers and Polymers</i> , 2020, 21, 2098-2110.	1.1	11
193	The controllable synthesis of urchin-shaped hierarchical superstructure MOFs with high catalytic activity and stability. <i>Chemical Communications</i> , 2021, 57, 8758-8761.	2.2	10
194	A phosphaphenanthrene-based derivative for simultaneously improving flame retardant and smoke suppression of epoxy resin composites. <i>Polymers for Advanced Technologies</i> , 2022, 33, 3512-3521.	1.6	10
195	Ground Hemp Fibers as Filler/Reinforcement for Thermoplastic Biocomposites. <i>Advances in Materials Science and Engineering</i> , 2015, 2015, 1-11.	1.0	9
196	Injection molded noil hemp fiber composites: Interfacial shear strength, fiber strength, and aspect ratio. <i>Polymer Composites</i> , 2016, 37, 213-220.	2.3	9
197	A dynamic tester to evaluate the thermal and moisture behaviour of the surface of textiles. <i>Journal of Thermal Biology</i> , 2016, 55, 14-19.	1.1	9
198	A mussel-inspired intumescent flame-retardant unsaturated polyester resin system. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 138, 1097-1106.	2.0	9

#	ARTICLE	IF	CITATIONS
199	Review on chloride transport in alkali-activated materials: Role of precursors, activators and admixtures. <i>Construction and Building Materials</i> , 2022, 328, 127081.	3.2	9
200	Effects of rare earth La on microstructure and properties of Ag ²¹ Cu ²⁵ Sn alloy ribbon prepared by melt spinning. <i>Materials and Design</i> , 2015, 83, 1-5.	3.3	8
201	Tungsten Fibre Reinforced Zr-Based Bulk Metallic Glass Composites. <i>Materials and Manufacturing Processes</i> , 2007, 22, 687-691.	2.7	7
202	Formation of defects in the graphite oxidization process: a positron study. <i>RSC Advances</i> , 2015, 5, 88908-88914.	1.7	7
203	Improved thermal stability of polyethylene with rare earth trifluoromethanesulfonate. <i>Composites Communications</i> , 2018, 8, 19-23.	3.3	7
204	Numerical and experimental study of hot pressing technique for resin-based friction composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2022, 153, 106737.	3.8	7
205	A dynamic tester to evaluate the thermal and moisture behaviour of the surface of textiles. <i>Journal of Thermal Biology</i> , 2016, 55, 30-38.	1.1	6
206	MULTISCALE MODELING FOR HIGH-PERFORMANCE CONCRETE: A REVIEW. <i>International Journal for Multiscale Computational Engineering</i> , 2018, 16, 267-283.	0.8	6
207	Insights into the hydrogen-bond cross-linking effects of small multiamine molecules on physical and mechanical properties of poly(vinyl alcohol) by molecular dynamics simulations. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2021, 29, 035012.	0.8	6
208	Improvement of Mechanical Properties of Noil Hemp Fiber Reinforced Polypropylene Composites by Resin Modification and Fiber Treatment. <i>Advances in Materials Science and Engineering</i> , 2013, 2013, 1-7.	1.0	5
209	Green Composite Materials. <i>Advances in Materials Science and Engineering</i> , 2015, 2015, 1-1.	1.0	5
210	Welan gum retards the hydration of calcium sulfoaluminate. <i>Journal of Thermal Analysis and Calorimetry</i> , 2017, 130, 899-908.	2.0	5
211	Preparation of natural rubber/silica nanocomposites using one- and two-dimensional dispersants by latex blending process. <i>Polymer Composites</i> , 2018, 39, 1413-1419.	2.3	5
212	Microstructure and wear characteristics of ATZ ceramic particle reinforced gray iron matrix surface composites. <i>China Foundry</i> , 2018, 15, 167-172.	0.5	5
213	Fresh and hardened properties of alkali-activated fly ash/slag binders: effect of fly ash source, surface area, and additives. <i>Journal of Sustainable Cement-Based Materials</i> , 2022, 11, 239-262.	1.7	5
214	Flexural Strength of Sandwich Panel with Lignocellulosic Composites Intermediate Layer – A Statistic Approach. <i>International Journal of Protective Structures</i> , 2011, 2, 453-464.	1.4	4
215	Effect of Hemp Fibre Surface Treatment on the Fibre-Matrix Interface and the Influence of Cellulose, Hemicellulose, and Lignin Contents on Composite Strength Properties. <i>Advances in Materials Science and Engineering</i> , 2021, 2021, 1-17.	1.0	4
216	The Implementation of Statistical Inference to Study the Bending Strength of Sustainable Hybrid Sandwich Panel Composite. <i>Advanced Materials Research</i> , 2011, 250-253, 956-961.	0.3	3

#	ARTICLE	IF	CITATIONS
217	In-Situ Si/Al Composite Produced by Semisolid Metal Processing. Materials and Manufacturing Processes, 2007, 22, 696-699.	2.7	2
218	A Study on the Dynamic Mechanical Properties of Silk Fibre Composites. Advanced Materials Research, 2011, 410, 106-109.	0.3	2
219	Numerical Simulation of Rolling Process and Microstructure Evolution of AM50 Mg Alloy during Hot Rolling Process. Advanced Materials Research, 0, 291-294, 449-454.	0.3	2
220	Prediction of Obsolete FBG Sensor Using ANN for Efficient and Robust Operation of SHM Systems. Key Engineering Materials, 0, 558, 546-553.	0.4	2
221	The Structural Behavior of Hybrid Structural Insulated Panels under Pure Bending Load. International Journal of Technology, 2017, 8, 777.	0.4	2
222	Nano SiO ₂ /Welan gum nanocomposite as microbial polysaccharide thickener used for 220 °C water-based drilling fluid, high-temperature sedimentation control stability. Journal of Polymer Research, 2022, 29, .	1.2	2
223	Numerical Simulation the Temperature Field of the Multi-Coil Batch during Annealing Process in Bell-Type Furnace. Advanced Materials Research, 0, 538-541, 637-641.	0.3	1
224	Use of FBG sensors in SHM of aerospace structures. Proceedings of SPIE, 2012, , .	0.8	1
225	Water exposure, tensile and fatigue properties of treated hemp reinforced vinyl ester composites. AIP Conference Proceedings, 2018, , .	0.3	1
226	The Role of Casting Temperature in Preparation of Bulk Metallic Glasses. Materials Science Forum, 2010, 638-642, 1671-1676.	0.3	0
227	Development of Sustainable Cements and Concretes. Journal of Sustainable Cement-Based Materials, 2012, 1, 153-153.	1.7	0
228	Embedded fibre optic sensors under multi-axial loading: a pilot study. , 2013, , .		0
229	Confinement of C ₆₀ nanoparticles on the dynamics of polystyrene studied by anelastic spectroscopy and rheometrics. , 2013, , .		0
230	Inorganic polymer foams: transform from non-structural to structural upon fire. , 2013, , .		0
231	Advanced Composites with Natural Reinforcement. Advances in Materials Science and Engineering, 2014, 2014, 1-2.	1.0	0
232	Research Difference of Strain Distribution and Microstructure Evolution between Rolling Direction and Transverse Direction of AM50 Mg Alloy Plate by Digital Image Correlation. Advances in Materials Science and Engineering, 2015, 2015, 1-7.	1.0	0
233	Development of a new calcium sulfoaluminate (synthetic ye'elimite) blended PII 52.5 cement. Advances in Cement Research, 2017, 29, 373-386.	0.7	0
234	Introduction to plant fibers and their composites. , 2022, , 1-24.		0