Omid Zabihi

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Multiple Hydrogen Bond Channel Structural Electrolyte for an Enhanced Carbon Fiber Composite Battery. ACS Applied Energy Materials, 2022, 5, 2054-2066.	5.1	8
2	Covalent treatment of carbon fibre with functionalized MoS2 nanosheets using thiol-ene click chemistry: The improvement of interface in multiscale epoxy composites. Composites Part B: Engineering, 2022, 236, 109821.	12.0	7
3	Biobased Carbon Fiber Composites with Enhanced Flame Retardancy: A Cradle-to-Cradle Approach. ACS Sustainable Chemistry and Engineering, 2022, 10, 1059-1069.	6.7	20
4	Novel Phosphorous-Based Deep Eutectic Solvents for the Production of Recyclable Macadamia Nutshell–Polymer Biocomposites with Improved Mechanical and Fire Safety Performances. ACS Sustainable Chemistry and Engineering, 2021, 9, 4463-4476.	6.7	21
5	The reinforcing role of 2D graphene analogue MoS2 nanosheets in multiscale carbon fibre composites: Improvement of interfacial adhesion. Composites Science and Technology, 2021, 207, 108717.	7.8	21
6	Balancing the toughness and strength in polypropylene composites. Composites Part B: Engineering, 2021, 223, 109121.	12.0	75
7	Metal–organic framework structure–property relationships for high-performance multifunctional polymer nanocomposite applications. Journal of Materials Chemistry A, 2021, 9, 4348-4378.	10.3	34
8	Organophosphorus-Functionalized Zirconium-Based Metal–Organic Framework Nanostructures for Improved Mechanical and Flame Retardant Polymer Nanocomposites. ACS Applied Nano Materials, 2021, 4, 13027-13040.	5.0	21
9	Development of a low cost and green microwave assisted approach towards the circular carbon fibre composites. Composites Part B: Engineering, 2020, 184, 107750.	12.0	37
10	2D transition metal dichalcogenide nanomaterials: advances, opportunities, and challenges in multi-functional polymer nanocomposites. Journal of Materials Chemistry A, 2020, 8, 845-883.	10.3	83
11	A sustainable approach to scalable production of a graphene based flame retardant using waste fish deoxyribonucleic acid. Journal of Cleaner Production, 2020, 247, 119150.	9.3	38
12	A Sustainable Approach to the Low-Cost Recycling of Waste Glass Fibres Composites towards Circular Economy. Sustainability, 2020, 12, 641.	3.2	32
13	Natural bauxite nanosheets: A multifunctional and sustainable 2D nano-reinforcement for high performance polymer nanocomposites. Composites Science and Technology, 2019, 184, 107868.	7.8	9
14	Simultaneous electrochemical-assisted exfoliation and in situ surface functionalization towards large-scale production of few-layer graphene. FlatChem, 2019, 18, 100132.	5.6	19
15	A Hydrothermal-Assisted Ball Milling Approach for Scalable Production of High-Quality Functionalized MoS2 Nanosheets for Polymer Nanocomposites. Nanomaterials, 2019, 9, 1400.	4.1	18
16	Low-Cost Carbon Fibre Derived from Sustainable Coal Tar Pitch and Polyacrylonitrile: Fabrication and Characterisation. Materials, 2019, 12, 1281.	2.9	22
17	Nano-enhanced interface in carbon fibre polymer composite using halloysite nanotubes. Composites Part A: Applied Science and Manufacturing, 2018, 109, 115-123.	7.6	42
18	A technical review on epoxy-clay nanocomposites: Structure, properties, and their applications in fiber reinforced composites. Composites Part B: Engineering, 2018, 135, 1-24.	12.0	195

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19	Self-assembly of quaternized chitosan nanoparticles within nanoclay layers for enhancement of interfacial properties in toughened polymer nanocomposites. Materials and Design, 2017, 119, 277-289.	7.0	34
20	A renewable bio-based epoxy resin with improved mechanical performance that can compete with DGEBA. RSC Advances, 2017, 7, 8694-8701.	3.6	117
21	Hydrophilic PAN based carbon nanofibres with improved graphitic structure and enhanced mechanical performance using ethylenediamine functionalized graphene. RSC Advances, 2017, 7, 2621-2628.	3.6	32
22	Collision-induced activation: Towards industrially scalable approach to graphite nanoplatelets functionalization for superior polymer nanocomposites. Scientific Reports, 2017, 7, 3560.	3.3	30
23	Carbon fibre surface modification using functionalized nanoclay: A hierarchical interphase for fibre-reinforced polymer composites. Composites Science and Technology, 2017, 148, 49-58.	7.8	91
24	Electroactive nanostructured scaffold produced by controlled deposition of PPy on electrospun PCL fibres. Research on Chemical Intermediates, 2017, 43, 1235-1251.	2.7	40
25	The Effects of UV Light on the Chemical and Mechanical Properties of a Transparent Epoxy-Diamine System in the Presence of an Organic UV Absorber. Materials, 2017, 10, 180.	2.9	144
26	Catalyzed Synthesis and Characterization of a Novel Lignin-Based Curing Agent for the Curing of High-Performance Epoxy Resin. Polymers, 2017, 9, 266.	4.5	52
27	Interfacial evaluation of epoxy/carbon nanofiber nanocomposite reinforced with glycidyl methacrylate treated UHMWPE fiber. Journal of Applied Polymer Science, 2016, 133, .	2.6	20
28	Enhancement of photocatalytic degradation of furfural and acetophenone in water media using nano-TiO2-SiO2 deposited on cementitious materials. Water Science and Technology, 2016, 74, 1689-1697.	2.5	16
29	Fish DNA-modified clays: Towards highly flame retardant polymer nanocomposite with improved interfacial and mechanical performance. Scientific Reports, 2016, 6, 38194.	3.3	47
30	Synergistic effect of MWCNTs functionalization on interfacial and mechanical properties of multi-scale UHMWPE fibre reinforced epoxy composites. Composites Science and Technology, 2016, 134, 1-11.	7.8	87
31	One-step amino-functionalization of milled carbon fibre for enhancement of thermo-physical properties of epoxy composites. Composites Part A: Applied Science and Manufacturing, 2016, 88, 243-252.	7.6	41
32	Enhanced photocatalytic activities of TiO2–SiO2 nanohybrids immobilized on cement-based materials for dye degradation. Research on Chemical Intermediates, 2016, 42, 2963-2978.	2.7	30
33	Enhanced thermal stability and lifetime of epoxy nanocomposites using covalently functionalized clay: experimental and modelling. New Journal of Chemistry, 2015, 39, 2269-2278.	2.8	54
34	Dynamic Prediction Models and Optimization of Polyacrylonitrile (PAN) Stabilization Processes for Production of Carbon Fiber. IEEE Transactions on Industrial Informatics, 2015, 11, 887-896.	11.3	59
35	One-pot synthesis of aminated multi-walled carbon nanotube using thiol-ene click chemistry for improvement of epoxy nanocomposites properties. RSC Advances, 2015, 5, 98692-98699.	3.6	57
36	Effect of different conditions on the size and quality of titanium dioxide nanoparticles synthesized by a reflux process. Research on Chemical Intermediates, 2015, 41, 1777-1788.	2.7	9

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37	Description of phenomenological process during thermal formation of an epoxy system in presence of metal nanoparticles using advanced kinetics analysis. Journal of Thermal Analysis and Calorimetry, 2014, 117, 53-61.	3.6	9
38	Study on a novel thermoset nanocomposite form DGEBA–cycloaliphatic diamine and metal nanoparticles. Journal of Thermal Analysis and Calorimetry, 2013, 111, 703-710.	3.6	25
39	Understanding of thermal/thermo-oxidative degradation kinetics of polythiophene nanoparticles. Journal of Thermal Analysis and Calorimetry, 2013, 112, 1507-1513.	3.6	12
40	Preparation and characterization of toughened composites of epoxy/poly(3,4-ethylenedioxythiophene) nanotube: Thermal, mechanical and electrical properties. Composites Part B: Engineering, 2013, 45, 1480-1485.	12.0	19
41	Isothermal curing behavior and thermo-physical properties of epoxy-based thermoset nanocomposites reinforced with Fe2O3 nanoparticles. Thermochimica Acta, 2012, 527, 190-198.	2.7	44
42	Characterization and Thermal Decomposition Kinetics of Poly(ethylene 2,6-naphthalate) Nanocomposites Reinforced with TiO ₂ Nanoparticles. Polymer-Plastics Technology and Engineering, 2012, 51, 43-49.	1.9	6
43	Modeling of phenomenological mechanisms during thermal formation and degradation of an epoxy-based nanocomposite. Thermochimica Acta, 2012, 543, 239-245.	2.7	18
44	Nano-CuO/Epoxy Composites: Thermal Characterization and Thermo-Oxidative Degradation. International Journal of Polymer Analysis and Characterization, 2012, 17, 108-121.	1.9	26
45	Investigation of mechanical properties and cure behavior of DGEBA/nano-Fe2O3 with polyamine dendrimer. Polymer Degradation and Stability, 2012, 97, 1730-1736.	5.8	16
46	Thermo-oxidative degradation kinetics and mechanism of the system epoxy nanocomposite reinforced with nano-Al2O3. Journal of Thermal Analysis and Calorimetry, 2012, 108, 1251-1260.	3.6	24
47	Preparation, optimization and thermal characterization of a novel conductive thermoset nanocomposite containing polythiophene nanoparticles using dynamic thermal analysis. Polymer Degradation and Stability, 2012, 97, 3-13.	5.8	63
48	The effect of zinc oxide nanoparticles on thermo-physical properties of diglycidyl ether of bisphenol A/2,2â€2-Diamino-1,1â€2-binaphthalene nanocomposites. Thermochimica Acta, 2011, 521, 49-58.	2.7	49