

Zhixiong Huang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

81
papers

933
citations

14
h-index

28
g-index

87
ext. papers

1,174
ext. citations

3.1
avg, IF

4.66
L-index

#	Paper	IF	Citations
81	Investigation on the Mechanical and Thermal Insulation Properties of Hollow Microspheres/Phenolic Syntactic Foams. <i>Advances in Materials Science and Engineering</i> , 2022 , 2022, 1-10	1.5	
80	Role of Liquid-Phase Amount in Ceramization of Silicone Rubber Composites and Its Controlling. <i>Materials</i> , 2022 , 15, 3675	3.5	0
79	Recovery of polyimide waste film by mechanical method to improve the heat fade resistance of BPR matrix friction composites. <i>Wear</i> , 2022 , 204398	3.5	
78	Ultralight Open-Cell Graphene Aerogels with Multiple, Gradient Microstructures for Efficient Microwave Absorption. <i>Nanomaterials</i> , 2022 , 12, 1896	5.4	1
77	A closed-loop recycling process for carbon fiber reinforced vinyl ester resin composite. <i>Chemical Engineering Journal</i> , 2022 , 446, 137254	14.7	1
76	Ceramification of Composites of MgO-Al ₂ O ₃ -SiO ₂ /Boron Phenolic Resin with Different Calcine Time. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2021 , 36, 174-182	1	2
75	Synthesis and Thermal Degradation Study of Polyhedral Oligomeric Silsesquioxane (POSS) Modified Phenolic Resin. <i>Polymers</i> , 2021 , 13,	4.5	3
74	ZrO ₂ F-coated Cf hybrid fibrous reinforcements and properties of their reinforced ceramicizable phenolic resin matrix composites. <i>Journal of the European Ceramic Society</i> , 2021 , 41, 1810-1816	6	3
73	Study on preparation and properties of bentonite-modified epoxy sheet molding compound. <i>E-Polymers</i> , 2021 , 21, 309-315	2.7	2
72	Solvothermal degradation and reuse of carbon fiber reinforced boron phenolic resin composites. <i>Composites Part B: Engineering</i> , 2021 , 221, 109011	10	11
71	Polyhedral oligomeric silsesquioxane (POSS)-modified phenolic resin: Synthesis and anti-oxidation properties. <i>E-Polymers</i> , 2021 , 21, 316-326	2.7	4
70	Enhanced Thermal Resistance of Boron Phenolic Composites by Addition of TiSi ₂ Particles. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2021 , 36, 839-844	1	
69	Recovering Quadruple-cation Perovskite Films from Water Caused Permanent Degradations. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2020 , 35, 57-64	1	2
68	A Novel Zirconium Modified Arylacetylene Resin: Preparation, Thermal Properties and Ceramifiable Mechanism. <i>Polymers</i> , 2020 , 12,	4.5	3
67	Efficient synthesis of dendritic PbTiO ₃ nanorods by hydrothermal method. <i>Journal of Materials Science: Materials in Electronics</i> , 2020 , 31, 12345-12354	2.1	1
66	Effects of Zirconium Silicide on the Vulcanization, Mechanical and Ablation Resistance Properties of Ceramifiable Silicone Rubber Composites. <i>Polymers</i> , 2020 , 12,	4.5	13
65	Morphology evolution of BaTi ₅ O ₁₁ nanocrystals prepared by hydrothermal method and their permittivity. <i>Journal of Materials Science: Materials in Electronics</i> , 2020 , 31, 6883-6889	2.1	

64	Nano-silica modified phenolic resin film: manufacturing and properties. <i>Nanotechnology Reviews</i> , 2020 , 9, 209-218	6.3	6
63	Ba4Ti13O30 nanocrystals prepared by hydrothermal method. <i>International Journal of Ceramic Engineering & Science</i> , 2020 , 2, 3-6	2	
62	Improving ablation properties of ceramifiable vitreous silica fabric reinforced boron phenolic resin composites via an incorporation of MoSi2. <i>Plastics, Rubber and Composites</i> , 2020 , 49, 456-469	1.5	3
61	Thermal Decomposition and Ceramifying Process of Ceramifiable Silicone Rubber Composite with Hydrated Zinc Borate. <i>Materials</i> , 2019 , 12,	3.5	6
60	Poly(vinyl pyrrolidone)-assisted hydrothermal synthesis of Pb(Zr0.52Ti0.48)O3 nanocrystals. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 17164-17169	2.1	
59	Synthesis of single-crystalline Pb(Zr0.52Ti0.48)O3 nanocrystals by hydrothermal method. <i>Materials Science-Poland</i> , 2019 , 37, 473-481	0.6	
58	Improved high-temperature mechanical property of carbon-phenolic composites by introducing titanium diboride particles. <i>Composites Part B: Engineering</i> , 2019 , 157, 289-294	10	24
57	Effect of high-temperature treatment on the mechanical and thermal properties of phenolic syntactic foams. <i>Polymer Engineering and Science</i> , 2018 , 58, 2200-2209	2.3	11
56	Low-temperature synthesis of Bi4Ti3O12 nanocrystals by hydrothermal method. <i>Journal of Materials Science: Materials in Electronics</i> , 2018 , 29, 7453-7457	2.1	7
55	Hydrothermal Synthesis of PbTiO3 Nanocrystals with a pH-Adjusting Agent of Ammonia Solution. <i>Electronic Materials Letters</i> , 2018 , 14, 610-615	2.9	4
54	Thermal stability and ablation resistance, and ablation mechanism of carbon/phenolic composites with different zirconium silicide particle loadings. <i>Composites Part B: Engineering</i> , 2018 , 154, 313-320	10	25
53	The diffusion of an antifoulant in an equilibrium swollen P(MMA-co-n-BMA): A molecular dynamics simulation study. <i>Progress in Organic Coatings</i> , 2018 , 123, 314-321	4.8	1
52	Fabrication and Anti-Oxidation Ability of SiC-SiO2 Coated Carbon Fibers Using Sol-Gel Method. <i>Materials</i> , 2018 , 11,	3.5	7
51	Fluxing Agents on Ceramification of Composites of MgO-Al2O3-SiO2/Boron Phenolic Resin. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2018 , 33, 381-388	1	6
50	Investigation of properties of nano-silica modified epoxy resin films and composites using RFI technology. <i>Composites Part B: Engineering</i> , 2018 , 155, 288-298	10	10
49	Effect of the Flux on the Fire-Resistance Properties of Cerami-Fiable Epdm Rubber Composites. <i>Advanced Composites Letters</i> , 2018 , 27, 096369351802700	1.2	7
48	Bionic boron/silicon-modified phenolic resin system with multifunctional groups: synthesis, thermal properties and ablation mechanism. <i>Biosurface and Biotribology</i> , 2018 , 4, 85-93	1	6
47	Quantitative Analysis of Damping Enhancement and Piezoelectric Effect Mechanism of CNTs/PMN/EP Composites. <i>Advances in Materials Science and Engineering</i> , 2018 , 2018, 1-7	1.5	1

46	Novel cardanol-containing boron-modified phenolic resin composites: Non-isothermal curing kinetics, thermal properties, and ablation mechanism. <i>High Performance Polymers</i> , 2017 , 29, 279-288	1.6	19
45	Study of the equilibrium swelling of poly(methyl methacrylate-co-n-butyl methacrylate) immersed in water via MD simulation. <i>Chemical Engineering Science</i> , 2017 , 173, 483-492	4.4	7
44	Surface modification of hollow glass microsphere with different coupling agents for potential applications in phenolic syntactic foams. <i>Journal of Applied Polymer Science</i> , 2017 , 134,	2.9	13
43	Composition Distribution, Damping and Thermal Properties of the Thickness-Continuous Gradient Epoxy/Polyurethane Interpenetrating Polymer Networks. <i>Applied Sciences (Switzerland)</i> , 2017 , 7, 135	2.6	4
42	Mechanical and dynamic mechanical properties of epoxy syntactic foams reinforced by short carbon fiber. <i>Polymer Composites</i> , 2016 , 37, 1960-1970	3	25
41	Effects of functionalized graphene nanoplatelets on the morphology and properties of epoxy resins. <i>High Performance Polymers</i> , 2016 , 28, 525-536	1.6	24
40	Thermal behavior of phenolic-based ceramizable composites modified by nano-aluminum oxide. <i>High Performance Polymers</i> , 2016 , 28, 1096-1101	1.6	9
39	Size effect of graphene nanoplatelets on the morphology and mechanical behavior of glass fiber/epoxy composites. <i>Journal of Materials Science</i> , 2016 , 51, 3337-3348	4.3	60
38	Effects of Functionalized Graphene Nanoplatelets on the Morphology and Properties of Phenolic Resins. <i>Journal of Nanomaterials</i> , 2016 , 2016, 1-7	3.2	13
37	Effect of Functionalization of Graphene Nanoplatelets on the Mechanical and Thermal Properties of Silicone Rubber Composites. <i>Materials</i> , 2016 , 9,	3.5	70
36	Improved Ablation Resistance of Silicone Rubber Composites by Introducing Montmorillonite and Silicon Carbide Whisker. <i>Materials</i> , 2016 , 9,	3.5	23
35	Processing and characterization of high content multilayer graphene/epoxy composites with high electrical conductivity. <i>Polymer Composites</i> , 2016 , 37, 2897-2906	3	16
34	Self-gradient mechanism, morphology and damping analysis of a thickness continuous gradient epoxy/polyurethane interpenetrating polymer network. <i>RSC Advances</i> , 2016 , 6, 111688-111701	3.7	7
33	(0 0 2)-oriented growth and morphologies of ZnO thin films prepared by sol-gel method. <i>Materials Science-Poland</i> , 2016 , 34, 555-563	0.6	5
32	Synthesis and Properties of Polyphenylsilsesquioxane Modified Phenolic Resin by in-situ Polymerization from Phenyltriethoxysilane Precursor. <i>Journal of Macromolecular Science - Physics</i> , 2016 , 55, 810-821	1.4	4
31	Improved ablation resistance of carbon/phenolic composites by introducing zirconium silicide particles. <i>Composites Part B: Engineering</i> , 2015 , 82, 100-107	10	49
30	Synthesis and Photocatalytic Activity of One-dimensional Fe_2O_3 Nanorods. <i>Chemistry Letters</i> , 2015 , 44, 1682-1684	1.7	3
29	Mechanical properties and thermal conductivity of graphene nanoplatelet/epoxy composites. <i>Journal of Materials Science</i> , 2015 , 50, 1082-1093	4.3	262

28	Preparation and performance of ceramizable heat-resistant organic adhesive for joining Al ₂ O ₃ ceramics. <i>International Journal of Adhesion and Adhesives</i> , 2014 , 55, 132-138	3.4	12
27	Castor Oil-Based Polyurethane/Epoxy Intercross-linked Polymer Network Adhesives for Metal Substrates. <i>Journal of Macromolecular Science - Physics</i> , 2014 , 53, 1621-1628	1.4	1
26	A facile synthesis of carbon black fluid grafting by polyetheramine using neutralization reaction. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2014 , 29, 357-360	1	
25	Dynamic Mechanical Properties of Phenolic Resin/Chlorinated Butyl Rubber Composites. <i>Journal of Macromolecular Science - Physics</i> , 2014 , 53, 813-819	1.4	7
24	Interfacial bond dependence of damping properties of carbon nanotubes enhanced polymers. <i>Polymer Composites</i> , 2014 , 35, 548-556	3	12
23	Facile synthesis and characterization of silica nanoscale ionic materials. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2013 , 28, 673-676	1	
22	Synthesis of Fumed Silica Treated with Organosilane and Its Effect on Epoxy Resin. <i>Polymer-Plastics Technology and Engineering</i> , 2013 , 52, 145-148		12
21	Mechanical and Damping Properties of Glass Fiber and Mica-Reinforced Epoxy Composites. <i>Polymer-Plastics Technology and Engineering</i> , 2012 , 51, 840-844		19
20	Damping properties of epoxy-based composite embedded with sol-gel-derived Pb(Zr _{0.53} Ti _{0.47})O ₃ thin film annealed at different temperatures. <i>Journal of Materials Science: Materials in Electronics</i> , 2012 , 23, 940-944	2.1	3
19	Influence of annealing time on the microstructure and properties of Pb(Zr _{0.53} Ti _{0.47})O ₃ thin films. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2012 , 27, 88-91	1	1
18	Mechanical, Dynamic Mechanical and Electrical Properties of Conductive Carbon Black/Piezoelectric Ceramic/Chlorobutyl Rubber Composites. <i>Polymer-Plastics Technology and Engineering</i> , 2012 , 51, 105-110		14
17	The Effects of Dynamic Load on the Damping Performance of Piezoelectric Ceramic/Conductive Carbon/Epoxy Resin Composites. <i>Polymer-Plastics Technology and Engineering</i> , 2010 , 49, 979-982		8
16	Synthesis of Single-Crystalline Silicon Nitride (Si ₃ N ₄) Nanowires with Controlled Diameters by Nitriding Cryomilled Nanocrystalline Silicon Powder. <i>Materials Research Society Symposia Proceedings</i> , 2010 , 1279, 1		1
15	Preparation and Ferroelectric Properties of Ho ³⁺ /Mo ⁶⁺ Cosubstituted Bi ₄ Ti ₃ O ₁₂ Thin Films by Sol-gel Method. <i>Journal of Electronic Materials</i> , 2010 , 39, 258-261	1.9	14
14	Effect of Bi content in precursor solutions on microstructure and ferroelectric properties of bismuth cerium titanate thin films. <i>Science in China Series D: Earth Sciences</i> , 2009 , 52, 878-882		2
13	Flame-retardant mechanism of magnesium oxychloride in epoxy resin. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2009 , 24, 127-131	1	5
12	Performance of CTBN(carboxyl-terminated poly (butadiene-co-acrylonitrile))-EP(diglycidyl ether of bisphenol-A (DGEBA)) prepolymers and CTBN-EP/polyetheramine (PEA) system. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2009 , 24, 757-762	1	9
11	Synthesis, characterization and flame-retardant properties of epoxy resins and AACHH composites. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2009 , 24, 763-767	1	2

10	Effects of Accelerated Thermo-Oxidative Aging on Properties of a Damped-Encapsulating Epoxy Adhesive. <i>Polymer-Plastics Technology and Engineering</i> , 2008 , 47, 180-185		1
9	Ferroelectric properties of Bi _{3.4} Ho _{0.6} Ti ₃ O ₁₂ thin films prepared by sol-gel method. <i>Science in China Series D: Earth Sciences</i> , 2008 , 51, 1439-1444		2
8	Conductive behaviors of carbon nanofibers reinforced epoxy composites. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2008 , 23, 139-142	1	6
7	Synthesis of PEG-MAH crystalline polymer and its thickening traits to LPMC. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2008 , 23, 403-406	1	
6	Effect of La doping on microstructure and ferroelectric properties of Bi ₄ Ti ₃ O ₁₂ thin films prepared by sol-gel method. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2008 , 23, 622-624	1	3
5	Effect of thermal crosslink conditions on dynamic mechanical behaviors of flexible epoxy. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2008 , 23, 825-829	1	3
4	Cure reaction kinetics of low pressure sheet molding compound system thickened by crystalline polymer. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2007 , 22, 380-384	1	2
3	Compressive and fracture properties of syntactic foam filled with hollow plastic bead(HPC). <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2007 , 22, 499-501	1	9
2	Decomposition mechanism of boron phenolic resin composites under temperature gradient. <i>Plastics, Rubber and Composites</i> , 1-10	1.5	0
1	Synthesis of PbTiO ₃ nanoplates by two-step hydrothermal method with pH-adjusting agent of ammonia solution. <i>Journal of Asian Ceramic Societies</i> , 1-9	2.4	0