

Aimin Zhang

List of Publications by Year in descending order

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35
papers

769
citations

516710

16
h-index

526287

27
g-index

35
all docs

35
docs citations

35
times ranked

791
citing authors

#	ARTICLE	IF	CITATIONS
1	A study on thermal oxidation mechanism of styrene-butadiene-styrene block copolymer (SBS). <i>Polymer Degradation and Stability</i> , 2007, 92, 1682-1691.	5.8	92
2	Poly(methyl methacrylate) nanoparticles prepared through microwave emulsion polymerization. <i>Journal of Applied Polymer Science</i> , 2004, 93, 2815-2820.	2.6	60
3	BSA-Modified Polyethersulfone Membrane: Preparation, Characterization and Biocompatibility. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2009, 20, 377-397.	3.5	58
4	Recent progress of magnesium oxychloride cement: Manufacture, curing, structure and performance. <i>Construction and Building Materials</i> , 2020, 255, 119381.	7.2	53
5	Cooling Principle Analyses and Performance Evaluation of Heat-Reflective Coating for Asphalt Pavement. <i>Journal of Materials in Civil Engineering</i> , 2011, 23, 1067-1075.	2.9	51
6	A highly stretchable, transparent, notch-insensitive self-healing elastomer for coating. <i>Journal of Materials Chemistry C</i> , 2020, 8, 2043-2053.	5.5	49
7	NIR-UV Responsive Actuator with Graphene Oxide/Microchannel-Induced Liquid Crystal Bilayer Structure for Biomimetic Devices. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 6727-6735.	8.0	43
8	BPA transfer rate increase using molecular imprinted polyethersulfone hollow fiber membrane. <i>Journal of Membrane Science</i> , 2008, 310, 38-43.	8.2	34
9	Bio-Mimetic Actuators of a Photothermal-Responsive Vitrimer Liquid Crystal Elastomer with Robust, Self-Healing, Shape Memory, and Reconfigurable Properties. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 1929-1939.	8.0	31
10	A supramolecular polymer with ultra-stretchable, notch-insensitive, rapid self-healing and adhesive properties. <i>Polymer Chemistry</i> , 2021, 12, 660-669.	3.9	26
11	Superhydrophobic magnesium oxychloride cement based composites with integral stability and recyclability. <i>Cement and Concrete Composites</i> , 2021, 118, 103973.	10.7	24
12	Fabrication of Photothermally Responsive Nanocomposite Hydrogel through 3D Printing. <i>Macromolecular Materials and Engineering</i> , 2020, 305, 1900718.	3.6	23
13	Hydrophobic/superhydrophobic reversible smart materials via photo/thermo dual-response dynamic wrinkled structure. <i>Chemical Engineering Journal</i> , 2021, 420, 127679.	12.7	22
14	Reversibly cross-linked SEBS/carbon hybrid composite with excellent solvent-proof and electromagnetic shielding properties. <i>Materials and Design</i> , 2018, 146, 1-11.	7.0	20
15	Epoxy foams with tunable acoustic absorption behavior. <i>Materials Letters</i> , 2017, 194, 234-237.	2.6	19
16	Liquid metal bionic instant self-healing flexible electronics with full recyclability and high reliability. <i>Chemical Engineering Journal</i> , 2022, 431, 133965.	12.7	19
17	Raw material ratio optimisation of magnesium oxychloride cement using response surface method. <i>Construction and Building Materials</i> , 2021, 272, 121648.	7.2	18
18	Intrinsically hydrophobic magnesium oxychloride cement foam for thermal insulation material. <i>Construction and Building Materials</i> , 2021, 288, 123129.	7.2	16

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19	Ultrasensitive and Recyclable Multifunctional Superhydrophobic Sensor Membrane for Underwater Applications, Weather Monitoring, and Wastewater Treatment. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 21623-21635.	8.0	16
20	Bottlebrush-like highly efficient antibacterial coating constructed using $\hat{\pm}$ -helical peptide dendritic polymers on the poly(styrene- <i>b</i> -(ethylene- <i>co</i> -butylene)- <i>b</i> -styrene) surface. <i>Journal of Materials Chemistry B</i> , 2020, 8, 7428-7437.	5.8	14
21	Effect of microwave irradiation on crystalline structure and dielectric property of PVDF/PZT composite. <i>Journal of Materials Science</i> , 2008, 43, 820-823.	3.7	13
22	Multidirectional biomimetic deformation of microchannel programmed metal nanowire liquid crystal networks. <i>Journal of Materials Chemistry C</i> , 2019, 7, 10663-10671.	5.5	10
23	Structure, properties, and mechanism of reactive compatibilization of epoxy to polyphenylene sulfide/polyamide elastomer. <i>Journal of Applied Polymer Science</i> , 2013, 130, 3411-3420.	2.6	9
24	Photoelectric and flexible poly(styrene- <i>b</i> -ethylene/butylene- <i>b</i> -styrene)-zinc porphyrin-graphene hybrid composite: synthesis, performance, and mechanism. <i>RSC Advances</i> , 2018, 8, 35429-35436.	3.6	9
25	Preparation and properties of styrene ethylene butylene styrene / polypropylene thermoplastic elastomer powder for selective laser sintering 3D printing. <i>Journal of Applied Polymer Science</i> , 2021, 138, 50908.	2.6	6
26	Multifunctional magnesium oxychloride based composite with stable superhydrophobicity, self-luminescence and reusability. <i>Construction and Building Materials</i> , 2021, 286, 122978.	7.2	6
27	Crystallization Behavior of Poly(Tetramethylene Oxide) Influenced by the Crystallization Condition of Poly(Butylene Succinate) in Their Copolymers. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2019, 34, 496-506.	1.0	5
28	Preparation and Characterization of Temperature-Sensitive Poly(Styrene- <i>b</i> -Butadiene- <i>b</i> -Styrene)/Poly(N-Isopropylacrylamide) Hydrogel Elastomer with Interpenetrating Polymeric Networks. <i>Macromolecular Materials and Engineering</i> , 2019, 304, 1800783.	3.6	5
29	Effect of Na ₂ SiO ₃ on synthesis of TiO ₂ nanopowders by thermal processing of the precursor. <i>Advanced Powder Technology</i> , 2011, 22, 581-586.	4.1	4
30	Analysis on Structural Changes of Poly(vinyl acetate) by Two-Dimensional Correlation Infrared Spectroscopy. <i>Asian Journal of Chemistry</i> , 2014, 26, 7915-7920.	0.3	4
31	Effect of NaHCO ₃ on synthesis of anatase TiO ₂ nanopowders by thermal processing of the precursor. <i>Advanced Powder Technology</i> , 2009, 20, 588-592.	4.1	3
32	Functional building devices using laser-induced selective metallization on magnesium oxychloride cement composites. <i>Cement and Concrete Composites</i> , 2022, 128, 104423.	10.7	3
33	Composition dependence of the thermal behavior, morphology and properties of biodegradable PBS/PTMO segment block copolymer. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2016, 31, 219-226.	1.0	2
34	A conductive foam: Based on novel poly(styrene- <i>b</i> -butadiene- <i>co</i> -styrene- <i>b</i> -styrene) triblock copolymer filled by carbon black. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	2.6	1
35	Bionic Polyurethane with a Reversible Core-Sheath for Real-Time On-Demand Performance Adjustment and Fluorescence Self-Reflection. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 54375-54385.	8.0	1