

Aimin Zhang

List of Publications by Year in descending order

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35
papers

769
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516710

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35
times ranked

791
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	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
4	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
5	Hydrophobic/superhydrophobic reversible smart materials via photo/thermo dual-response dynamic wrinkled structure. <i>Chemical Engineering Journal</i> , 2021, 420, 127679.	12.7	22
6	Raw material ratio optimisation of magnesium oxychloride cement using response surface method. <i>Construction and Building Materials</i> , 2021, 272, 121648.	7.2	18
7	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
8	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
9	Superhydrophobic magnesium oxychloride cement based composites with integral stability and recyclability. <i>Cement and Concrete Composites</i> , 2021, 118, 103973.	10.7	24
10	Multifunctional magnesium oxychloride based composite with stable superhydrophobicity, self-luminescence and reusability. <i>Construction and Building Materials</i> , 2021, 286, 122978.	7.2	6
11	Intrinsically hydrophobic magnesium oxychloride cement foam for thermal insulation material. <i>Construction and Building Materials</i> , 2021, 288, 123129.	7.2	16
12	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
13	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
14	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
15	Fabrication of Photothermally Responsive Nanocomposite Hydrogel through 3D Printing. <i>Macromolecular Materials and Engineering</i> , 2020, 305, 1900718.	3.6	23
16	Bottlebrush-like highly efficient antibacterial coating constructed using β -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
17	Recent progress of magnesium oxychloride cement: Manufacture, curing, structure and performance. <i>Construction and Building Materials</i> , 2020, 255, 119381.	7.2	53
18	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

#	ARTICLE	IF	CITATIONS
19	Crystallization Behavior of Poly(Tetramethylene Oxide) Influenced by the Crystallization Condition of Poly(Butylene Succinate) in Their Copolymers. Journal Wuhan University of Technology, Materials Science Edition, 2019, 34, 496-506.	1.0	5
20	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. Macromolecular Materials and Engineering, 2019, 304, 1800783.	3.6	5
21	Reversibly cross-linked SEBS/carbon hybrid composite with excellent solvent-proof and electromagnetic shielding properties. Materials and Design, 2018, 146, 1-11.	7.0	20
22	Photoelectric and flexible poly(styrene- <i>b</i> -ethylene/butylene- <i>b</i> -styrene)-zinc porphyrin-graphene hybrid composite: synthesis, performance, and mechanism. RSC Advances, 2018, 8, 35429-35436.	3.6	9
23	Epoxy foams with tunable acoustic absorption behavior. Materials Letters, 2017, 194, 234-237.	2.6	19
24	Composition dependence of the thermal behavior, morphology and properties of biodegradable PBS/PTMO segment block copolymer. Journal Wuhan University of Technology, Materials Science Edition, 2016, 31, 219-226.	1.0	2
25	A conductive foam: Based on novel poly(styrene- <i>b</i> -butadiene- <i>b</i> -styrene)-tri-block copolymer filled by carbon black. Journal of Applied Polymer Science, 2015, 132, .	2.6	1
26	Analysis on Structural Changes of Poly(vinyl acetate) by Two-Dimensional Correlation Infrared Spectroscopy. Asian Journal of Chemistry, 2014, 26, 7915-7920.	0.3	4
27	Structure, properties, and mechanism of reactive compatibilization of epoxy to polyphenylene sulfide/polyamide elastomer. Journal of Applied Polymer Science, 2013, 130, 3411-3420.	2.6	9
28	Effect of Na ₂ SiO ₃ on synthesis of TiO ₂ nanopowders by thermal processing of the precursor. Advanced Powder Technology, 2011, 22, 581-586.	4.1	4
29	Cooling Principle Analyses and Performance Evaluation of Heat-Reflective Coating for Asphalt Pavement. Journal of Materials in Civil Engineering, 2011, 23, 1067-1075.	2.9	51
30	Effect of NaHCO ₃ on synthesis of anatase TiO ₂ nanopowders by thermal processing of the precursor. Advanced Powder Technology, 2009, 20, 588-592.	4.1	3
31	BSA-Modified Polyethersulfone Membrane: Preparation, Characterization and Biocompatibility. Journal of Biomaterials Science, Polymer Edition, 2009, 20, 377-397.	3.5	58
32	Effect of microwave irradiation on crystalline structure and dielectric property of PVDF/PZT composite. Journal of Materials Science, 2008, 43, 820-823.	3.7	13
33	BPA transfer rate increase using molecular imprinted polyethersulfone hollow fiber membrane. Journal of Membrane Science, 2008, 310, 38-43.	8.2	34
34	A study on thermal oxidation mechanism of styrene- <i>b</i> -butadiene- <i>b</i> -styrene block copolymer (SBS). Polymer Degradation and Stability, 2007, 92, 1682-1691.	5.8	92
35	Poly(methyl methacrylate) nanoparticles prepared through microwave emulsion polymerization. Journal of Applied Polymer Science, 2004, 93, 2815-2820.	2.6	60