

Jun Zhao

List of Publications by Year in descending order

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78
papers

3,785
citations

126907

33
h-index

128289

60
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all docs

78
docs citations

78
times ranked

4777
citing authors

#	ARTICLE	IF	CITATIONS
1	Engineering electrochemical actuators with large bending strain based on 3D-structure titanium carbide MXene composites. <i>Nano Research</i> , 2021, 14, 2277-2284.	10.4	22
2	Three-dimensional graphene coated shape memory polyurethane foam with fast responsive performance. <i>Journal of Materials Chemistry C</i> , 2021, 9, 7444-7451.	5.5	24
3	A bidirectionally reversible light-responsive actuator based on shape memory polyurethane bilayer. <i>Composites Part A: Applied Science and Manufacturing</i> , 2021, 144, 106322.	7.6	13
4	A facile route to prepare high-performance dielectric nanocomposites of poly(methyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 627 Td (m 209, 108792.	7.8	8
5	A Study into the γ -Al ₂ O ₃ Binder Influence on Nano-H-ZSM-5 via Scaled-Up Laboratory Methanol-to-Hydrocarbon Reaction. <i>Catalysts</i> , 2021, 11, 1140.	3.5	3
6	A facile approach to fabricate two-way shape memory polyurethane with large reversible strain and high shape stability. <i>Smart Materials and Structures</i> , 2020, 29, 055033.	3.5	13
7	High-performance poly(vinylidene fluoride)-polyamide 11/lithium niobate nanocomposites for the applications in air filtration. <i>Journal of Applied Polymer Science</i> , 2020, 137, 48957.	2.6	4
8	Shape memory epoxy composites with high mechanical performance manufactured by multi-material direct ink writing. <i>Composites Part A: Applied Science and Manufacturing</i> , 2020, 135, 105903.	7.6	47
9	Improved Electret Properties of Poly(Vinylidene Fluoride)/Lithium Niobate Nanocomposites for Applications in Air Filters. <i>Macromolecular Materials and Engineering</i> , 2019, 304, 1900003.	3.6	10
10	Carbon fiber reinforced shape memory epoxy composites with superior mechanical performances. <i>Composites Science and Technology</i> , 2019, 177, 49-56.	7.8	45
11	Synergetic effect of hybrid fillers of boron nitride, graphene nanoplatelets, and short carbon fibers for enhanced thermal conductivity and electrical resistivity of epoxy nanocomposites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2019, 117, 11-22.	7.6	100
12	Engineering Surface Patterns with Shape Memory Polymers: Multiple Design Dimensions for Diverse and Hierarchical Structures. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 1563-1570.	8.0	23
13	Wear and friction of epoxy based nanocomposites with silica nanoparticles and wax-containing microcapsules. <i>Composites Part A: Applied Science and Manufacturing</i> , 2018, 107, 607-615.	7.6	63
14	A temperature-activated nanocomposite metamaterial absorber with a wide tunability. <i>Nano Research</i> , 2018, 11, 3931-3942.	10.4	22
15	Self-healing thermoplastic polyurethane (TPU)/polycaprolactone (PCL) /multi-wall carbon nanotubes (MWCNTs) blend as shape-memory composites. <i>Composites Science and Technology</i> , 2018, 168, 255-262.	7.8	113
16	On the volume resistivity of silica nanoparticle filled epoxy with different surface modifications. <i>Composites Part A: Applied Science and Manufacturing</i> , 2017, 99, 139-148.	7.6	27
17	High strain rate compression of epoxy based nanocomposites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2016, 90, 62-70.	7.6	31
18	Continuously Tunable Wettability by Using Surface Patterned Shape Memory Polymers with Giant Deformability. <i>Small</i> , 2016, 12, 3327-3333.	10.0	49

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19	High Performance Shape Memory Epoxy/Carbon Nanotube Nanocomposites. ACS Applied Materials & Interfaces, 2016, 8, 311-320.	8.0	117
20	Effect of the compatibility on dielectric performance and breakdown strength of poly(vinylidene fluoride)/Ba _{0.5} Sr _{0.4} Ca _{0.1} TiO ₃ /polystyrene nanocomposites. Composites Science and Technology, 2015, 107, 107-112.	2.6	13
21	Preparation and dielectric properties of (Ba _{0.5} Sr _{0.4} Ca _{0.1})TiO ₃ /polystyrene composites. Journal of Applied Polymer Science, 2015, 132, .	2.6	6
22	Remarkably variable dielectric and magnetic properties of poly(vinylidene fluoride) nanocomposite films with triple-layer structure. Composites Science and Technology, 2015, 107, 107-112.	7.8	17
23	Dielectric and magnetic properties of Fe@Fe ₃ O ₄ /epoxy resin nanocomposites as high-performance electromagnetic insulating materials. Composites Science and Technology, 2015, 114, 57-63.	7.8	21
24	Reduced sedimentation of barium titanate nanoparticles in poly(vinylidene fluoride) films during solution casting by surface modification. Journal of Applied Polymer Science, 2015, 132, .	2.6	5
25	Effects of carbon black nanoparticles on two-way reversible shape memory in crosslinked polyethylene. Polymer, 2015, 56, 490-497.	3.8	62
26	Dually Actuated Triple Shape Memory Polymers of Cross-Linked Polycyclooctene- <i>b</i> -Carbon Nanotube/Polyethylene Nanocomposites. ACS Applied Materials & Interfaces, 2014, 6, 20051-20059.	8.0	61
27	Two-way shape memory property and its structural origin of cross-linked poly(μ -caprolactone). RSC Advances, 2014, 4, 55483-55494.	3.6	56
28	Dielectric properties of polystyrene based composites filled with core-shell BaTiO ₃ /polystyrene hybrid nanoparticles. IEEE Transactions on Dielectrics and Electrical Insulation, 2014, 21, 1438-1445.	2.9	23
29	Preparation and wide-frequency dielectric properties of (Ba _{0.5} Sr _{0.4} Ca _{0.1})TiO ₃ /poly(vinylidene fluoride) nanocomposites. Composites Science and Technology, 2015, 107, 107-112.	2.5	33
30	Advanced dielectric polymer nanocomposites by constructing a ternary continuous structure in polymer blends containing poly(methyl methacrylate) (PMMA) modified carbon nanotubes. Journal of Materials Chemistry A, 2014, 2, 10614.	10.3	50
31	A hybrid Mg-Al layered double hydroxide/graphene nanostructure obtained via hydrothermal synthesis. Chemical Physics Letters, 2014, 605-606, 77-80.	2.6	31
32	Effect of the selective localization of carbon nanotubes in polystyrene/poly(vinylidene fluoride) blends on their dielectric, thermal, and mechanical properties. Materials & Design, 2014, 56, 807-815.	5.1	89
33	Improved Thermal Conductivity and Flame Retardancy in Polystyrene/Poly(vinylidene fluoride) Blends by Controlling Selective Localization and Surface Modification of SiC Nanoparticles. ACS Applied Materials & Interfaces, 2013, 5, 6915-6924.	8.0	153
34	Improved Self-Healing of Polyethylene/Carbon Black Nanocomposites by Their Shape Memory Effect. Journal of Physical Chemistry B, 2013, 117, 1467-1474.	2.6	75
35	High thermal conductivity and high electrical resistivity of poly(vinylidene fluoride)/polystyrene blends by controlling the localization of hybrid fillers. Composites Science and Technology, 2013, 89, 142-148.	7.8	115
36	Preparation and dielectric behaviors of thermoplastic and thermosetting polymer nanocomposite films containing BaTiO ₃ nanoparticles with different diameters. Composites Science and Technology, 2013, 80, 66-72.	7.8	64

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37	Tuning the Dielectric Properties of Polystyrene/Poly(vinylidene fluoride) Blends by Selectively Localizing Carbon Black Nanoparticles. <i>Journal of Physical Chemistry B</i> , 2013, 117, 2505-2515.	2.6	62
38	Increased electroaction through a molecular flexibility tuning process in TiO ₂ @polydimethylsilicone nanocomposites. <i>Journal of Materials Chemistry A</i> , 2013, 1, 3140.	10.3	100
39	Functionalized graphene@BaTiO ₃ /ferroelectric polymer nanodielectric composites with high permittivity, low dielectric loss, and low percolation threshold. <i>Journal of Materials Chemistry A</i> , 2013, 1, 6162.	10.3	179
40	Ester-functionalized poly(3-alkylthiophene) copolymers: Synthesis, physicochemical characterization and performance in bulk heterojunction organic solar cells. <i>Organic Electronics</i> , 2013, 14, 523-534.	2.6	22
41	Dielectric properties of reduced graphene oxide/polypropylene composites with ultralow percolation threshold. <i>Polymer</i> , 2013, 54, 1916-1922.	3.8	204
42	Triple Shape Memory Effects of Cross-Linked Polyethylene/Polypropylene Blends with Cocontinuous Architecture. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 5550-5556.	8.0	136
43	Preparation and characterization of surface modified silicon carbide/polystyrene nanocomposites. <i>Journal of Applied Polymer Science</i> , 2013, 130, 638-644.	2.6	36
44	Effect of the Mixing on the Dielectric Constant of Poly(vinylidene fluoride)/Isotactic Polypropylene Blends. <i>Science of Advanced Materials</i> , 2013, 5, 505-511.	0.7	17
45	Experimental study and theoretical prediction of dielectric permittivity in BaTiO ₃ /polyimide nanocomposite films. <i>Applied Physics Letters</i> , 2012, 100, .	3.3	71
46	Two Lanthanide-Based Metal-Organic Frameworks with Flexible Alicyclic Carboxylate Ligands: Synthesis, Crystal Structures, and Near-Infrared Luminescence Property. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2012, 22, 1087-1092.	3.7	4
47	Improved stability of volume resistivity in carbon black/ethylene-vinyl acetate copolymer composites by employing multi-walled carbon nanotubes as second filler. <i>Polymer</i> , 2012, 53, 4871-4878.	3.8	27
48	Size-dependent low-frequency dielectric properties in the BaTiO ₃ /poly(vinylidene fluoride) nanocomposite films. <i>Applied Physics Letters</i> , 2012, 100, .	3.3	104
49	Improved Dielectric Properties of Nanocomposites Based on Poly(vinylidene fluoride) and Poly(vinyl) Tj ETQq1 1 0.784314 rgBT/Over 8.0 277	8.0	277
50	Phase behavior of PCBM blends with different conjugated polymers. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 12285.	2.8	27
51	Melting and Crystallization of Poly(ethylene oxide) Nanofilms Studied by Micromechanical Cantilevers. <i>Journal of Physical Chemistry C</i> , 2011, 115, 22347-22353.	3.1	7
52	Surface-Functionalized MWNTs with Emeraldine Base: Preparation and Improving Dielectric Properties of Polymer Nanocomposites. <i>ACS Applied Materials & Interfaces</i> , 2011, 3, 4557-4560.	8.0	106
53	Thermal Stability of Poly[2-methoxy-5-(2-phenylethoxy)-1,4-phenylenevinylene] (MPE-PPV): Fullerene Bulk Heterojunction Solar Cells. <i>Macromolecules</i> , 2011, 44, 8470-8478.	4.8	61
54	Solvothermal Treatment of Triangular Molybdenum(IV) Oxo Species - A New Approach for the Synthesis of New Molybdenum Oxo Clusters. <i>European Journal of Inorganic Chemistry</i> , 2011, 2011, 4096-4102.	2.0	19

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55	USANS study of porosity and water content in sponge-like hydrogels. <i>Polymer</i> , 2010, 51, 2049-2056.	3.8	12
56	Demixing and Remixing Kinetics of Poly(2-isopropyl-2-oxazoline) (PIPOZ) Aqueous Solutions Studied by Modulated Temperature Differential Scanning Calorimetry. <i>Macromolecules</i> , 2010, 43, 6853-6860.	4.8	54
57	Phase Diagram of P3HT/PCBM Blends and Its Implication for the Stability of Morphology. <i>Journal of Physical Chemistry B</i> , 2009, 113, 1587-1591.	2.6	333
58	Demixing and Remixing Kinetics in Aqueous Dispersions of Poly(<i>N</i> -isopropylacrylamide) (PNIPAM) Brushes Bound to Gold Nanoparticles Studied by Means of Modulated Temperature Differential Scanning Calorimetry. <i>Macromolecules</i> , 2009, 42, 5317-5327.	4.8	23
59	The use of nanofibers of P3HT in bulk heterojunction solar cells: the effect of order and morphology on the performance of P3HT:PCBM blends. , 2009, , .		0
60	Syntheses, Crystal Structures, and Magnetic Properties of Copper(II) and Manganese(II) Compounds Constructed from 5- <i>S</i> -sulfoisophthalic Acid (H_3SiP) and 2,2'-bipyridine (bpy) Ligands. <i>European Journal of Inorganic Chemistry</i> , 2008, 2008, 1157-1163.	2.0	19
61	Elucidating the aspect of "phase separation" in organic blends by means of thermal analysis. , 2007, , .		2
62	Transition of polyamide 6 in chemically bonded polyamide 6/polytetrafluoroethylene compounds studied by dynamic mechanical thermal analysis and dielectric thermal analysis. <i>Journal of Materials Science</i> , 2007, 42, 4757-4762.	3.7	5
63	Thermal contributions to the bending of bimaterial cantilever sensors. <i>Applied Physics Letters</i> , 2006, 89, 033110.	3.3	14
64	Linear low-density polyethylene/poly(ethylene-ran-butene) elastomer blends: Miscibility and crystallization behavior. <i>Journal of Polymer Research</i> , 2005, 11, 323-331.	2.4	7
65	Thermal Characterization of Upper Critical Solution Temperature m-LLDPE/Poly(ethylene-ran-butene) Elastomer Blends. <i>Macromolecular Materials and Engineering</i> , 2004, 289, 833-839.	3.6	0
66	Miscibility and Crystallization Behaviors of Polyamide 6/Polytetrafluoroethylene Blends. <i>Macromolecular Materials and Engineering</i> , 2004, 289, 1053-1058.	3.6	6
67	Effect of inorganic phase on polymeric relaxation dynamics in PMMA/silica hybrids studied by dielectric analysis. <i>European Polymer Journal</i> , 2004, 40, 1807-1814.	5.4	46
68	Crystallization of partially miscible linear low-density polyethylene/poly(ethylene-co-vinylacetate) blends. <i>Materials Letters</i> , 2004, 58, 3613-3617.	2.6	46
69	Study of the Dual Amorphous Phases in Semicrystalline Poly(ethylene terephthalate) Using the Heat Capacity Increment at the Glass Transition. <i>Macromolecules</i> , 2003, 36, 2176-2178.	4.8	6
70	Study of the Amorphous Phase in Semicrystalline Poly(ethylene terephthalate) via Physical Aging. <i>Macromolecules</i> , 2002, 35, 3097-3103.	4.8	50
71	Study of the amorphous phase in semicrystalline poly(ethylene terephthalate) via dynamic mechanical thermal analysis. <i>Polymer Bulletin</i> , 2002, 49, 197-203.	3.3	13
72	The effect of annealing on the subsequent cold crystallization of amorphous poly(ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62 Td		5,4

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73	A Study of the Physical Aging in Semicrystalline Poly(ethylene terephthalate) via Differential Scanning Calorimetry. <i>Macromolecules</i> , 2001, 34, 343-345.	4.8	39
74	Amorphous phase in atactic polystyrene. <i>Polymer Bulletin</i> , 2001, 47, 91-97.	3.3	5
75	Mechanical Properties and Orientation of Atactic Poly(methyl methacrylate): Sub-Tg Annealing and Stereocomplex Formation. <i>Macromolecular Rapid Communications</i> , 2001, 22, 948-951.	3.9	14
76	The Study of Stress-Yielding of Aged Atactic Polystyrene (a-PS) by Differential Scanning Calorimetry. <i>Macromolecular Chemistry and Physics</i> , 2001, 202, 512-515.	2.2	5
77	The preparation and characterization of amphiphilic core/shell particles. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2000, 161, 489-498.	4.7	9
78	Synthesis and Characterization of Rare Earth Complexes with Benzene-1,3,5-Tricarboxylic Acid. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , 1998, 28, 1405-1414.	1.8	4