Jun Zhao

List of Publications by Year
in descending order

78 papers	3,785 citations	126708 33 h-index	128067 60 g-index
78 all docs	78 docs citations	78 times ranked	4777 citing authors

#	Article	IF	Citations
1	Phase Diagram of P3HT/PCBM Blends and Its Implication for the Stability of Morphology. Journal of Physical Chemistry B, 2009, 113, 1587-1591.	1.2	333
2	Improved Dielectric Properties of Nanocomposites Based on Poly(vinylidene fluoride) and Poly(vinyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	4.0	277
3	Dielectric properties of reduced graphene oxide/polypropylene composites with ultralow percolation threshold. Polymer, 2013, 54, 1916-1922.	1.8	204
4	Functionalized grapheneâ€"BaTiO3/ferroelectric polymer nanodielectric composites with high permittivity, low dielectric loss, and low percolation threshold. Journal of Materials Chemistry A, 2013, 1, 6162.	5.2	179
5	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.	4.0	153
6	Triple Shape Memory Effects of Cross-Linked Polyethylene/Polypropylene Blends with Cocontinuous Architecture. ACS Applied Materials & Interfaces, 2013, 5, 5550-5556.	4.0	136
7	High Performance Shape Memory Epoxy/Carbon Nanotube Nanocomposites. ACS Applied Materials & Interfaces, 2016, 8, 311-320.	4.0	117
8	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.	3.8	115
9	Self-healing thermoplastic polyurethane (TPU)/polycaprolactone (PCL) /multi-wall carbon nanotubes (MWCNTs) blend as shape-memory composites. Composites Science and Technology, 2018, 168, 255-262.	3.8	113
10	Surface-Functionalized MWNTs with Emeraldine Base: Preparation and Improving Dielectric Properties of Polymer Nanocomposites. ACS Applied Materials & Interfaces, 2011, 3, 4557-4560.	4.0	106
11	Size-dependent low-frequency dielectric properties in the BaTiO3/poly(vinylidene fluoride) nanocomposite films. Applied Physics Letters, 2012, 100, .	1.5	104
12	Increased electroaction through a molecular flexibility tuning process in TiO2â€"polydimethylsilicone nanocomposites. Journal of Materials Chemistry A, 2013, 1, 3140.	5.2	100
13	Synergetic effect of hybrid fillers of boron nitride, graphene nanoplatelets, and short carbon fibers for enhanced thermal conductivity and electrical resistivity of epoxy nanocomposites. Composites Part A: Applied Science and Manufacturing, 2019, 117, 11-22.	3.8	100
14	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
15	Improved Self-Healing of Polyethylene/Carbon Black Nanocomposites by Their Shape Memory Effect. Journal of Physical Chemistry B, 2013, 117, 1467-1474.	1.2	75
16	Experimental study and theoretical prediction of dielectric permittivity in BaTiO3/polyimide nanocomposite films. Applied Physics Letters, 2012, 100, .	1.5	71
17	Preparation and dielectric behaviors of thermoplastic and thermosetting polymer nanocomposite films containing BaTiO3 nanoparticles with different diameters. Composites Science and Technology, 2013, 80, 66-72.	3.8	64
18	Wear and friction of epoxy based nanocomposites with silica nanoparticles and wax-containing microcapsules. Composites Part A: Applied Science and Manufacturing, 2018, 107, 607-615.	3.8	63

#	ARTICLE	IF	CITATIONS
19	Tuning the Dielectric Properties of Polystyrene/Poly(vinylidene fluoride) Blends by Selectively Localizing Carbon Black Nanoparticles. Journal of Physical Chemistry B, 2013, 117, 2505-2515.	1.2	62
20	Effects of carbon black nanoparticles on two-way reversible shape memory in crosslinked polyethylene. Polymer, 2015, 56, 490-497.	1.8	62
21	Thermal Stability of Poly[2-methoxy-5-(2â€²-phenylethoxy)-1,4-phenylenevinylene] (MPE-PPV):Fullerene Bulk Heterojunction Solar Cells. Macromolecules, 2011, 44, 8470-8478.	2.2	61
22	Dually Actuated Triple Shape Memory Polymers of Cross-Linked Polycyclooocteneâ€"Carbon Nanotube/Polyethylene Nanocomposites. ACS Applied Materials & Interfaces, 2014, 6, 20051-20059.	4.0	61
23	Two-way shape memory property and its structural origin of cross-linked poly(Îµ-caprolactone). RSC Advances, 2014, 4, 55483-55494.	1.7	56
24	Demixing and Remixing Kinetics of Poly(2-isopropyl-2-oxazoline) (PIPOZ) Aqueous Solutions Studied by Modulated Temperature Differential Scanning Calorimetry. Macromolecules, 2010, 43, 6853-6860.	2.2	54
25	Study of the Amorphous Phase in Semicrystalline Poly(ethylene terephthalate) via Physical Aging. Macromolecules, 2002, 35, 3097-3103.	2.2	50
26	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.	5.2	50
27	Continuously Tunable Wettability by Using Surface Patterned Shape Memory Polymers with Giant Deformability. Small, 2016, 12, 3327-3333.	5.2	49
28	Shape memory epoxy composites with high mechanical performance manufactured by multi-material direct ink writing. Composites Part A: Applied Science and Manufacturing, 2020, 135, 105903.	3.8	47
29	Effect of inorganic phase on polymeric relaxation dynamics in PMMA/silica hybrids studied by dielectric analysis. European Polymer Journal, 2004, 40, 1807-1814.	2.6	46
30	Crystallization of partially miscible linear low-density polyethylene/poly(ethylene-co-vinylacetate) blends. Materials Letters, 2004, 58, 3613-3617.	1.3	46
31	Carbon fiber reinforced shape memory epoxy composites with superior mechanical performances. Composites Science and Technology, 2019, 177, 49-56.	3.8	45
32	A Study of the Physical Aging in Semicrystalline Poly(ethylene terephthalate) via Differential Scanning Calorimetry. Macromolecules, 2001, 34, 343-345.	2.2	39
33	Preparation and characterization of surface modified silicon carbide/polystyrene nanocomposites. Journal of Applied Polymer Science, 2013, 130, 638-644.	1.3	36
34	Preparation and wide-frequency dielectric properties of (Ba0.5Sr0.4Ca0.1)TiO3/poly(vinylidene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 14	1.1	33
35	A hybrid Mgâ€"Al layered double hydroxide/graphene nanostructure obtained via hydrothermal synthesis. Chemical Physics Letters, 2014, 605-606, 77-80.	1.2	31
36	High strain rate compression of epoxy based nanocomposites. Composites Part A: Applied Science and Manufacturing, 2016, 90, 62-70.	3.8	31

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37	Phase behavior of PCBM blends with different conjugated polymers. Physical Chemistry Chemical Physics, 2011, 13, 12285.	1.3	27
38	Improved stability of volume resistivity in carbon black/ethylene-vinyl acetate copolymer composites by employing multi-walled carbon nanotubes as second filler. Polymer, 2012, 53, 4871-4878.	1.8	27
39	On the volume resistivity of silica nanoparticle filled epoxy with different surface modifications. Composites Part A: Applied Science and Manufacturing, 2017, 99, 139-148.	3.8	27
40	Three-dimensional graphene coated shape memory polyurethane foam with fast responsive performance. Journal of Materials Chemistry C, 2021, 9, 7444-7451.	2.7	24
41	Demixing and Remixing Kinetics in Aqueous Dispersions of Poly(N-isopropylacrylamide) (PNIPAM) Brushes Bound to Gold Nanoparticles Studied by Means of Modulated Temperature Differential Scanning Calorimetry. Macromolecules, 2009, 42, 5317-5327.	2.2	23
42	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.	1.8	23
43	Engineering Surface Patterns with Shape Memory Polymers: Multiple Design Dimensions for Diverse and Hierarchical Structures. ACS Applied Materials & Interfaces, 2019, 11, 1563-1570.	4.0	23
44	Ester-functionalized poly(3-alkylthiophene) copolymers: Synthesis, physicochemical characterization and performance in bulk heterojunction organic solar cells. Organic Electronics, 2013, 14, 523-534.	1.4	22
45	A temperature-activated nanocomposite metamaterial absorber with a wide tunability. Nano Research, 2018, 11, 3931-3942.	5.8	22
46	Engineering electrochemical actuators with large bending strain based on 3D-structure titanium carbide MXene composites. Nano Research, 2021, 14, 2277-2284.	5.8	22
47	Dielectric and magnetic properties of Fe@Fe O /epoxy resin nanocomposites as high-performance electromagnetic insulating materials. Composites Science and Technology, 2015, 114, 57-63.	3.8	21
48	Syntheses, Crystal Structures, and Magnetic Properties of Copper(II) and Manganese(II) Compounds Constructed from 5‐Sulfoisophthalic Acid (H_3SIP) and 2,2′‐Bipyridine (bpy) Ligands. European Journal of Inorganic Chemistry, 2008, 2008, 1157-1163.	1.0	19
49	Solvothermal Treatment of Triangular Molybdenum(IV) Oxo Species - A New Approach for the Synthesis of New Molybdenum Oxo Clusters. European Journal of Inorganic Chemistry, 2011, 2011, 4096-4102.	1.0	19
50	Remarkably variable dielectric and magnetic properties of poly(vinylidene fluoride) nanocomposite films with triple-layer structure. Composites Science and Technology, 2015, 107, 107-112.	3.8	17
51	Effect of the Mixing on the Dielectric Constant of Poly(vinylidene fluoride)/Isotactic Polypropylene Blends. Science of Advanced Materials, 2013, 5, 505-511.	0.1	17
52	Mechanical Properties and Orientation of Atactic Poly(methyl methacrylate): Sub-Tg Annealing and Stereocomplex Formation. Macromolecular Rapid Communications, 2001, 22, 948-951.	2.0	14
53	Thermal contributions to the bending of bimaterial cantilever sensors. Applied Physics Letters, 2006, 89, 033110.	1.5	14
54	Study of the amorphous phase in semicrystalline poly(ethy1ene terephthalate) via dynamic mechanical thermal analysis. Polymer Bulletin, 2002, 49, 197-203.	1.7	13

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55	Effect of the compatibility on dielectric performance and breakdown strength of poly(vinylidene) Tj ETQq1 1 0.784314 rgBT /Overlock	1.3	13
56	A facile approach to fabricate two-way shape memory polyurethane with large reversible strain and high shape stability. Smart Materials and Structures, 2020, 29, 055033.	1.8	13
57	A bidirectionally reversible light-responsive actuator based on shape memory polyurethane bilayer. Composites Part A: Applied Science and Manufacturing, 2021, 144, 106322.	3.8	13
58	USANS study of porosity and water content in sponge-like hydrogels. Polymer, 2010, 51, 2049-2056.	1.8	12
59	Improved Electret Properties of Poly(Vinylidene Fluoride)/Lithium Niobate Nanocomposites for Applications in Air Filters. Macromolecular Materials and Engineering, 2019, 304, 1900003.	1.7	10
60	The preparation and characterization of amphiphilic core/shell particles. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2000, 161, 489-498.	2.3	9
61	A facile route to prepare highâ€‘performance dielectric nanocomposites of poly(methyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 209, 108792.	3.8	8
62	Linear low-density polyethylene/poly(ethylene-ran-butene) elastomer blends: Miscibility and crystallization behavior. Journal of Polymer Research, 2005, 11, 323-331.	1.2	7
63	Melting and Crystallization of Poly(ethylene oxide) Nanofilms Studied by Micromechanical Cantilevers. Journal of Physical Chemistry C, 2011, 115, 22347-22353.	1.5	7
64	The effect of annealing on the subsequent cold crystallization of amorphous poly(ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 382 T	2.6	6
65	Study of the Dual Amorphous Phases in Semicrystalline Poly(ethylene terephthalate) Using the Heat Capacity Increment at the Glass Transition. Macromolecules, 2003, 36, 2176-2178.	2.2	6
66	Miscibility and Crystallization Behaviors of Polyamide 6/Polytetrafluoroethylene Blends. Macromolecular Materials and Engineering, 2004, 289, 1053-1058.	1.7	6
67	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, .	1.3	6
68	Amorphous phase in atactic polystyrene. Polymer Bulletin, 2001, 47, 91-97.	1.7	5
69	The Study of Stress-Yielding of Aged Atactic Polystyrene (a-PS) by Differential Scanning Calorimetry. Macromolecular Chemistry and Physics, 2001, 202, 512-515.	1.1	5
70	Î± Transition of polyamideÂ6 in chemically bonded polyamideÂ6/polytetrafluoroethylene compounds studied by dynamic mechanical thermal analysis and dielectric thermal analysis. Journal of Materials Science, 2007, 42, 4757-4762.	1.7	5
71	Reduced sedimentation of barium titanate nanoparticles in poly(vinylidene fluoride) films during solution casting by surface modification. Journal of Applied Polymer Science, 2015, 132, .	1.3	5
72	Synthesis and Characterization of Rare Earth Complexes with Benzene-1,3,5-Tricarboxylic Acid. Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry, 1998, 28, 1405-1414.	1.8	4

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73	Two Lanthanide-Based Metal–Organic Frameworks with Flexible Alicyclic Carboxylate Ligands: Synthesis, Crystal Structures, and Near-Infrared Luminescence Property. Journal of Inorganic and Organometallic Polymers and Materials, 2012, 22, 1087-1092.	1.9	4
74	High‐performance poly(vinylidene fluoride)‐polyamide 11/lithium niobate nanocomposites for the applications in air filtration. Journal of Applied Polymer Science, 2020, 137, 48957.	1.3	4
75	A Study into the Î³-Al2O3 Binder Influence on Nano-H-ZSM-5 via Scaled-Up Laboratory Methanol-to-Hydrocarbon Reaction. Catalysts, 2021, 11, 1140.	1.6	3
76	Elucidating the aspect of "phase separation" in organic blends by means of thermal analysis. , 2007, , .		2
77	Thermal Characterization of Upper Critical Solution Temperature m-LLDPE/Poly(ethylene-ran-butene) Elastomer Blends. Macromolecular Materials and Engineering, 2004, 289, 833-839.	1.7	0
78	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