Wenhan Xu

List of Publications by Year
in descending order

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23 papers	939 citations	567281 15 h-index	642732 23 g-index
24 all docs	24 docs citations	24 times ranked	872 citing authors

#	Article	IF	Citations
1	Ferroelectric polymers exhibiting behaviour reminiscent of a morphotropic phase boundary. Nature, 2018, 562, 96-100.	27.8	200
2	Chirality-induced relaxor properties in ferroelectric polymers. Nature Materials, 2020, 19, 1169-1174.	27.5	93
3	Lightweight Porous Polystyrene with High Thermal Conductivity by Constructing 3D Interconnected Network of Boron Nitride Nanosheets. ACS Applied Materials & Interfaces, 2020, 12, 46767-46778.	8.0	85
4	High-k Polymer Nanocomposites Filled with Hyperbranched Phthalocyanine-Coated BaTiO₃ for High-Temperature and Elevated Field Applications. ACS Applied Materials & Interfaces, 2018, 10, 11233-11241.	8.0	82
5	Bioinspired Polymer Nanocomposites Exhibit Giant Energy Density and High Efficiency at High Temperature. Small, 2019, 15, e1901582.	10.0	75
6	Interfaceâ€Strengthened Polymer Nanocomposites with Reduced Dielectric Relaxation Exhibit High Energy Density at Elevated Temperatures Utilizing a Facile Dual Crosslinked Network. Small, 2020, 16, e2000714.	10.0	64
7	Crosslinked dielectric materials for high-temperature capacitive energy storage. Journal of Materials Chemistry A, 2021, 9, 10000-10011.	10.3	63
8	Rational Design of Soluble Polyaramid for Highâ€Efficiency Energy Storage Dielectric Materials at Elevated Temperatures. Macromolecular Materials and Engineering, 2020, 305, 1900820.	3.6	38
9	Bilayer-Structured Polymer Nanocomposites Exhibiting High Breakdown Strength and Energy Density via Interfacial Barrier Design. ACS Applied Energy Materials, 2020, 3, 8055-8063.	5.1	32
10	Towards electrocaloric heat pumpâ€”A relaxor ferroelectric polymer exhibiting large electrocaloric response at low electric field. Applied Physics Letters, 2018, 113, .	3.3	31
11	Relaxor Ferroelectric Polymers: Insight into High Electrical Energy Storage Properties from a Molecular Perspective. Small Science, 2021, 1, 2000061.	9.9	26
12	Curly-Packed Structure Polymers for High-Temperature Capacitive Energy Storage. Chemistry of Materials, 2022, 34, 2333-2341.	6.7	25
13	Mixed matrix membranes decorated with in situ self-assembled polymeric nanoparticles driven by electrostatic interaction. Journal of Materials Chemistry A, 2018, 6, 7859-7870.	10.3	21
14	Composition-Dependent Dielectric Properties of Poly(vinylidene fluoride-trifluoroethylene)s Near the Morphotropic Phase Boundary. Macromolecules, 2019, 52, 6741-6747.	4.8	19
15	Chemical grafting of multi-walled carbon nanotubes on metal phthalocyanines for the preparation of nanocomposites with high dielectric constant and low dielectric loss for energy storage application. RSC Advances, 2015, 5, 51542-51548.	3.6	18
16	Insights into the Morphotropic Phase Boundary in Ferroelectric Polymers from the Molecular Perspective. Journal of Physical Chemistry C, 2019, 123, 8727-8730.	3.1	16
17	Porous Structure, Carbon Dioxide Capture, and Separation in Cross-Linked Porphyrin-Based Polyimides Networks. Industrial & Engineering Chemistry Research, 2019, 58, 14146-14153.	3.7	15
18	Observation of a Negative Thermal Hysteresis in Relaxor Ferroelectric Polymers. Advanced Functional Materials, 2020, 30, 2000648.	14.9	12

#	Article	IF	Citations
19	Magnetoâ€mechanical properties of polydimethylsiloxane composites with a binary magnetic filler system. Polymer Composites, 2019, 40, 337-345.	4.6	10
20	Composition Dependence of Microstructures and Ferroelectric Properties in Poly(vinylidene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 707 T Macromolecules, 2020, 53, 3139-3147.	4.8	5
21	Enhanced Piezoelectricity in Poly(vinylidene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 667 Td (fluoride-co-trifluoroethylene- Mixed Ferroelectric Phases. Macromolecules, 2022, 55, 2703-2713.	4.8	5
22	ZnPc-MWCNT/sulfonated poly (ether ether ketone) composites for high-k and electrical energy storage applications. IEEE Transactions on Dielectrics and Electrical Insulation, 2017, 24, 720-726.	2.9	3
23	Polymer Nanocomposites: Bioinspired Polymer Nanocomposites Exhibit Giant Energy Density and High Efficiency at High Temperature (Small 28/2019). Small, 2019, 15, 1970148.	10.0	0