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	Curly-Packed Structure Polymers for High-Temperature Capacitive Energy Storage. Chemistry of Materials, 2022, 34, 2333-2341.	6.7	25
2	Enhanced Piezoelectricity in Poly(vinylidene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 707 Td (fluoride-co-trifluoroethylene-co Mixed Ferroelectric Phases. Macromolecules, 2022, 55, 2703-2713.	4.8	5
3	Crosslinked dielectric materials for high-temperature capacitive energy storage. Journal of Materials Chemistry A, 2021, 9, 10000-10011.	10.3	63
4	Relaxor Ferroelectric Polymers: Insight into High Electrical Energy Storage Properties from a Molecular Perspective. Small Science, 2021, 1, 2000061.	9.9	26
5	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
6	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
7	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
8	Chirality-induced relaxor properties in ferroelectric polymers. Nature Materials, 2020, 19, 1169-1174.	27.5	93
9	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
10	Observation of a Negative Thermal Hysteresis in Relaxor Ferroelectric Polymers. Advanced Functional Materials, 2020, 30, 2000648.	14.9	12
11	Composition Dependence of Microstructures and Ferroelectric Properties in Poly(vinylidene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf Macromolecules, 2020, 53, 3139-3147.	4.8	5
12	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
13	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
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	Bioinspired Polymer Nanocomposites Exhibit Giant Energy Density and High Efficiency at High Temperature. Small, 2019, 15, e1901582.	10.0	75
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	Magnetoâ€mechanical properties of polydimethylsiloxane composites with a binary magnetic filler system. Polymer Composites, 2019, 40, 337-345.	4.6	10
18	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

#	Article	IF	Citations
19	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
20	Ferroelectric polymers exhibiting behaviour reminiscent of a morphotropic phase boundary. Nature, 2018, 562, 96-100.	27.8	200
21	Towards electrocaloric heat pumpâ€"A relaxor ferroelectric polymer exhibiting large electrocaloric response at low electric field. Applied Physics Letters, 2018, 113, .	3.3	31
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	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