penghao Hu

List of Publications by Year in descending order

20 papers	1,876 citations	471509 17 h-index	752698 20 g-index
20 all docs	20 docs citations	20 times ranked	1685 citing authors

#	Article	IF	Citations
1	Large mechanical-to-electric output originated from optimized configuration in P(VDF-TrFE)-based nanocomposite fibrous membrane as wearable nanogenerator. Composites Science and Technology, 2022, 220, 109266.	7.8	5
2	Bioinspired toughening of soft elastomer via embedded threeâ€dimensional printing. Journal of Applied Polymer Science, 2022, 139, .	2.6	1
3	Excellent Stability in Polyetherimide/SiO₂ Nanocomposites with Ultrahigh Energy Density and Discharge Efficiency at High Temperature. Small, 2022, 18, .	10.0	54
4	High-temperature electrical energy storage performances of dipolar glass polymer nanocomposites filled with trace ultrafine nanoparticles. Chemical Engineering Journal, 2021, 420, 127614.	12.7	33
5	Significantly increased energy density and discharge efficiency at high temperature in polyetherimide nanocomposites by a small amount of Al₂O₃ nanoparticles. Journal of Materials Chemistry A, 2020, 8, 24536-24542.	10.3	98
6	Coaxially aligned MWCNTs improve performance of electrospun P(VDF-TrFE)-based fibrous membrane applied in wearable piezoelectric nanogenerator. Composites Part B: Engineering, 2019, 178, 107447.	12.0	49
7	Optimizing the dielectric energy storage performance in P(VDF-HFP) nanocomposite by modulating the diameter of PZT nanofibers prepared via electrospinning. Composites Science and Technology, 2019, 184, 107838.	7.8	37
8	High dielectric constant and energy density induced by the tunable TiO2 interfacial buffer layer in PVDF nanocomposite contained with coreâ€“shell structured TiO2@BaTiO3 nanoparticles. Applied Surface Science, 2018, 441, 824-831.	6.1	111
9	Linear dependence between content of effective piezo-phase and mechanical-to-electrical conversion in electrospun poly(vinylidene fluoride) fibrous membrane. Materials Letters, 2018, 218, 71-75.	2.6	10
10	Large energy density at high-temperature and excellent thermal stability in polyimide nanocomposite contained with small loading of BaTiO3 nanofibers. Applied Surface Science, 2018, 458, 743-750.	6.1	126
11	Dielectric and energy storage performances of polyimide/BaTiO3 nanocomposites at elevated temperatures. Journal of Applied Physics, 2017, 121, .	2.5	98
12	Nanocomposite Membranes Enhance Bone Regeneration Through Restoring Physiological Electric Microenvironment. ACS Nano, 2016, 10, 7279-7286.	14.6	208
13	Synergetic Enhancement of Permittivity and Breakdown Strength in Allâ€Polymeric Dielectrics toward Flexible Energy Storage Devices. Advanced Materials Interfaces, 2016, 3, 1600016.	3.7	35
14	Preparation and dielectric properties of polymer composites incorporated with polydopamine@AgNPs coreâ€“satellite particles. RSC Advances, 2016, 6, 34529-34533.	3.6	22
15	Enhanced electric displacement induces large energy density in polymer nanocomposites containing coreâ€“shell structured BaTiO₃@TiO₂ nanofibers. Journal of Materials Chemistry A, 2016, 4, 2314-2320.	10.3	130
16	Highly improved electro-actuation of dielectric elastomers by molecular grafting of azobenzenes to silicon rubber. Journal of Materials Chemistry C, 2015, 3, 4883-4889.	5.5	82
17	Topologicalâ€Structure Modulated Polymer Nanocomposites Exhibiting Highly Enhanced Dielectric Strength and Energy Density. Advanced Functional Materials, 2014, 24, 3172-3178.	14.9	371
18	Largely enhanced energy density in flexible P(VDF-TrFE) nanocomposites by surface-modified electrospun BaSrTiO₃fibers. Journal of Materials Chemistry A, 2013, 1, 1688-1693.	10.3	151

#	ARTICLE	IF	CITATIONS
19	Highly enhanced energy density induced by hetero-interface in sandwich-structured polymer nanocomposites. Journal of Materials Chemistry A, 2013, 1, 12321.	10.3	116
20	Significant enhancement in energy density of polymer composites induced by dopamine-modified Ba0.6Sr0.4TiO3 nanofibers. Applied Physics Letters, 2012, 101, .	3.3	139