

Wenfeng Liu

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9444286/publications.pdf>

Version: 2024-02-01

28
papers

2,930
citations

687363

13
h-index

580821

25
g-index

28
all docs

28
docs citations

28
times ranked

2564
citing authors

#	ARTICLE	IF	CITATIONS
1	Large Piezoelectric Effect in Pb-Free Ceramics. <i>Physical Review Letters</i> , 2009, 103, 257602.	7.8	2,242
2	Triple-point-type morphotropic phase boundary based large piezoelectric Pb-free material $\text{Ba}(\text{Ti}_{0.8}\text{Hf}_{0.2})\text{O}_3\text{-(Ba}_{0.7}\text{Ca}_{0.3})\text{TiO}_3$. <i>Applied Physics Letters</i> , 2012, 100, .	3.3	175
3	Ferroelectric aging effect in hybrid-doped BaTiO_3 ceramics and the associated large recoverable electrostrain. <i>Applied Physics Letters</i> , 2006, 89, 172908.	3.3	101
4	Review of electrical properties for polypropylene based nanocomposite. <i>Composites Communications</i> , 2018, 10, 221-225.	6.3	49
5	Enhanced voltage gradient and energy absorption capability in ZnO varistor ceramics by using nano-sized ZnO powders. <i>Journal of Alloys and Compounds</i> , 2020, 828, 154252.	5.5	42
6	Polypropylene nanocomposite for power equipment: a review. <i>IET Nanodielectrics</i> , 2018, 1, 92-103.	4.1	41
7	Characterization of Polypropylene Modified by Blending Elastomer and Nano-Silica. <i>Materials</i> , 2018, 11, 1321.	2.9	37
8	Zinc interstitial as a universal microscopic origin for the electrical degradation of ZnO-based varistors under the combined DC and temperature condition. <i>Journal of the European Ceramic Society</i> , 2017, 37, 3535-3540.	5.7	29
9	Online degradation of biaxial-orientated polypropylene film from HVDC filter capacitors. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2019, 26, 26-33.	2.9	25
10	Prospective of $(\text{BaCa})(\text{ZrTi})\text{O}_3$ Lead-free Piezoelectric Ceramics. <i>Crystals</i> , 2019, 9, 179.	2.2	24
11	Enhanced energy storage properties of polypropylene/maleic anhydride grafted polypropylene/nano- ZrO_2 ternary system. <i>Journal of Applied Polymer Science</i> , 2019, 136, 48211.	2.6	21
12	Enhanced energy storage property in glass-added $\text{Ba}(\text{Zr}_{0.2}\text{Ti}_{0.8})\text{O}_3\text{-}0.15(\text{Ba}_{0.7}\text{Ca}_{0.3})\text{TiO}_3$ ceramics and the charge relaxation. <i>Ceramics International</i> , 2019, 45, 11388-11394.	4.8	19
13	Simultaneously enhanced electrical stability and nonlinearity in ZnO varistor ceramics: Role of Si-stabilized Bi_2O_3 phase. <i>Journal of the European Ceramic Society</i> , 2021, 41, 2641-2647.	5.7	18
14	Local structural behavior of $\text{PbZr}_{0.5}\text{Ti}_{0.5}\text{O}_3$ during electric field application via <i>in situ</i> pair distribution function study. <i>Journal of Applied Physics</i> , 2017, 122, .	2.5	13
15	Effects of the Er_2O_3 doping on the microstructure and electrical properties of ZnO- Bi_2O_3 based varistor ceramics. <i>Ceramics International</i> , 2021, 47, 32349-32356.	4.8	12
16	Enhanced breakdown strength and restrained dielectric loss of polypropylene/maleic anhydride grafted polypropylene/core-shell ZrO_2 @ SiO_2 nanocomposites. <i>Polymer Composites</i> , 2022, 43, 2175-2183.	4.6	12
17	Correlation between morphology and electrical breakdown strength of the polypropylene/maleic anhydride grafted polypropylene/nano- ZrO_2 ternary system. <i>Journal of Applied Polymer Science</i> , 2018, 135, 46842.	2.6	11
18	Large electrostrain with good temperature stability in sodium niobate based ceramics. <i>RSC Advances</i> , 2017, 7, 2550-2554.	3.6	9

#	ARTICLE	IF	CITATIONS
19	Mechanism of aging effect in hybrid-doped BaTiO ₃ ceramics: electronegativity and ionic radius. RSC Advances, 2016, 6, 109030-109035.	3.6	8
20	Composition design and electrical properties of (K _{0.48} Na _{0.52})NbO _{3-x} LiSbO ₃ ·y{(Bi _{0.5} Na _{0.5})(Zr _{1-Sn})O ₃ } ceramics. Materials and Design, 2017, 136, 119-126.	7.0	8
21	Evolution of dielectric relaxation under elevated electric field of polypropylene-based films. Journal Physics D: Applied Physics, 2020, 53, 445502.	2.8	8
22	Enhanced breakdown strength of multilayer polypropylene film with structured interface. Journal Physics D: Applied Physics, 2021, 54, 345503.	2.8	8
23	Enhanced Energy Storage using Ba(Zr _{0.2} Ti _{0.8})O ₃ ·0.15(Ba _{0.7} Ca _{0.3})TiO ₃ Ceramics with BaO·SrO·TiO ₂ ·Al ₂ O ₃ ·SiO ₂ ·BaF ₂ Glass Addition. Energy Technology, 2017, 5, 1423-1428.	3.8	7
24	A unified model for conductivity, electric breakdown, energy storage, and discharge efficiency of linear polymer dielectrics. Journal Physics D: Applied Physics, 2022, 55, 285501.	2.8	6
25	Design optimization of power capacitor major insulation based on partial discharge performance. , 2016, , .		2
26	Influences of Bi-axial Orientation on the Crystallization and DC Breakdown Properties of Polypropylene Films. Lecture Notes in Electrical Engineering, 2020, , 91-98.	0.4	2
27	Improved Breakdown Strength and Energy Storage Properties of Core-shell SiO ₂ @ZrO ₂ /maleic anhydridegrafted polypropylene/polypropylene Ternary Composites. , 2020, , .		1
28	Improved Compatibility and DC Breakdown Strength of Polypropylene/Maleic Anhydride Grafted Polypropylene/Nano-ZrO ₂ Ternary System. Lecture Notes in Electrical Engineering, 2020, , 74-81.	0.4	0