Shrabanee Sen

List of Publications by Year
in descending order

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40 papers	1,475 citations	304368 22 h-index	315357 38 g-index
40 all docs	40 docs citations	40 times ranked	1476 citing authors

#	Article	IF	Citations
1	Influence of Various Physiochemical Parameters of AFeO₃ (A = Bi, Er, Ga, La, Sm, Y) Fillers on the Dielectric, Ferroelectric, Energy Storage, and Mechanical Energy Harvesting Performance of PVDF. Macromolecular Materials and Engineering, 2022, 307, .	1.7	6
2	Hydroxylated BiFeO₃ as efficient fillers in poly(vinylidene fluoride) for flexible dielectric, ferroelectric, energy storage and mechanical energy harvesting application. Dalton Transactions, 2021, 50, 1824-1837.	1.6	31
3	Space charge induced augmented dielectric permittivity and improved energy harvesting ability of nano-Ag decorated ZnSnO3 filled PVDF based flexible nanogenerator. Composites Science and Technology, 2021, 213, 108916.	3.8	23
4	Enhanced dielectric, ferroelectric, energy storage and mechanical energy harvesting performance of ZnOâ€“PVDF composites induced by MWCNTs as an additive third phase. Soft Matter, 2021, 17, 8483-8495.	1.2	31
5	Conducting polyaniline decorated in-situ poled Ferrite nanorod-PVDF based nanocomposite as piezoelectric energy harvester. Journal of Alloys and Compounds, 2020, 815, 152312.	2.8	29
6	Enhancement in energy storage and piezoelectric performance of three phase (PZT/MWCNT/PVDF) composite. Materials Chemistry and Physics, 2020, 244, 122639.	2.0	70
7	Nano-ZnO decorated ZnSnO₃ as efficient fillers in PVDF matrixes: toward simultaneous enhancement of energy storage density and efficiency and improved energy harvesting activity. Nanoscale, 2020, 12, 20908-20921.	2.8	34
8	Tailored piezoelectric performance of <scp>selfâ€polarized PVDFâ€ZnO</scp> composites by optimization of aspect ratio of <scp>ZnO</scp> nanorods. Polymer Composites, 2020, 41, 3351-3363.	2.3	26
9	Frequency dependent energy storage and dielectric performance of Baâ€“Zr Co-doped BiFeO₃ loaded PVDF based mechanical energy harvesters: effect of corona poling. Soft Matter, 2020, 16, 8492-8505.	1.2	23
10	Significantly suppressed leakage current and reduced band gap of BiFeO3 through Baâ€“Zr Co-Substitution: Structural, optical, electrical and magnetic study. Materials Chemistry and Physics, 2020, 254, 123362.	2.0	15
11	Synthesis and characterization of SmFeO3 and its effect on the electrical and energy storage properties of PVDF. Materials Research Bulletin, 2020, 130, 110941.	2.7	32
12	Flexible, hybrid nanogenerator based on Zinc Ferrite nanorods incorporated poly(vinylidene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 307 T Materials Research Bulletin, 2019, 118, 110515.	2.7	26
13	Flexible piezoelectric energy harvesters using different architectures of ferrite based nanocomposites. CrystEngComm, 2019, 21, 3478-3488.	1.3	20
14	Influence of nanoparticle size on nucleation of electroactive phase and energy storage behaviour of zinc ferrite/ poly(vinylidene fluoride) nanocomposite. Journal of Materials Science: Materials in Electronics, 2019, 30, 5137-5148.	1.1	6
15	Role of suppressed oxygen vacancies in the BiFeO₃ nanofiller to improve the polar phase and multifunctional performance of poly(vinylidene fluoride). Physical Chemistry Chemical Physics, 2019, 21, 5974-5988.	1.3	43
16	Surface Modified Zinc Ferrite (ZF) / Polyvinylidene fluoride (PVDF) Nanocomposite: A Novel Material for Application as a Flexible Energy Harvester. Materials Today: Proceedings, 2018, 5, 10047-10053.	0.9	8
17	The preparation of Î³-poly(vinylidene fluoride)/ZnS nanocomposite for energy storage application. Materials Today: Proceedings, 2018, 5, 10091-10096.	0.9	1
18	Enhancement of Electroactive Î²-phase and Superior Dielectric Properties in Cerium Based Poly(vinylidene fluoride) Composite Films. Materials Today: Proceedings, 2018, 5, 10084-10090.	0.9	3

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19	Polyvinylpyrrolidone modified barium zirconate titanate /polyvinylidene fluoride nanocomposites as self-powered sensor. Ceramics International, 2018, 44, 11196-11203.	2.3	36
20	Enhanced dielectric, ferroelectrics and piezoelectric behavior of tape casted BCTâ€“BZT piezoelectric wafer. Journal of Materials Science: Materials in Electronics, 2018, 29, 14046-14054.	1.1	3
21	Improved dielectric constant and breakdown strength ofÎ³-phase dominant super toughened polyvinylidene fluoride/TiO₂nanocomposite film: an excellent material for energy storage applications and piezoelectric throughput. Nanotechnology, 2017, 28, 015503.	1.3	35
22	Polyglycolated zinc ferrite incorporated poly(vinylidene fluoride)(PVDF) composites with enhanced piezoelectric response. Journal of Alloys and Compounds, 2017, 722, 829-838.	2.8	43
23	Improved dielectric and touch sensing performance of surface modified zinc ferrite (ZF)/Polyvinylidene fluoride (PVDF) composite. Sensors and Actuators A: Physical, 2017, 267, 301-309.	2.0	18
24	Investigation of density of states and electrical properties of Ba0.5Co0.5Bi2Nb2O9 nanoceramics prepared by chemical route. Journal of Materials Science: Materials in Electronics, 2017, 28, 4676-4683.	1.1	3
25	Improved breakdown strength and electrical energy storage performance ofÎ³-poly(vinylidene) Tj ETQq1 1 0.784314 rgBT /Ove	1.3	56
26	The preparation ofÎ³-crystalline non-electrically poled photoluminescant ZnOâ€“PVDF nanocomposite film for wearable nanogenerators. Nanotechnology, 2016, 27, 445403.	1.3	33
27	Yb3+ assisted self-polarized PVDF based ferroelectretic nanogenerator: A facile strategy of highly efficient mechanical energy harvester fabrication. Nano Energy, 2016, 30, 621-629.	8.2	124
28	Enhanced dielectric and energy storage performance of surface treated gallium ferrite/polyvinylidene fluoride nanocomposites. RSC Advances, 2016, 6, 105137-105145.	1.7	26
29	Effect of surface modification of ceramic particles by SDS on the electrical properties of PZT-PVDF and BT-PVDF composites: interface effect. Journal of Materials Science: Materials in Electronics, 2015, 26, 2969-2976.	1.1	14
30	The influence of hydrogen bonding on the dielectric constant and the piezoelectric energy harvesting performance of hydrated metal salt mediated PVDF films. Physical Chemistry Chemical Physics, 2015, 17, 17429-17436.	1.3	139
31	Self-Poled Transparent and Flexible UV Light-Emitting Cerium Complexâ€“PVDF Composite: A High-Performance Nanogenerator. ACS Applied Materials & Interfaces, 2015, 7, 1298-1307.	4.0	129
32	Impedance analysis of 0.65Pb(Mg1/3Nb2/3)O3â€“0.35PbTiO3 ceramic. Journal of Alloys and Compounds, 2008, 453, 395-400.	2.8	47
33	Electrical behaviour of PMNâ€“PTâ€“PVDF nanocomposite. Journal Physics D: Applied Physics, 2008, 41, 165305.	1.3	8
34	Structural and electrical properties of Ca2+-modified PZT electroceramics. Physica B: Condensed Matter, 2007, 387, 56-62.	1.3	191
35	Low-Temperature Synthesis of 0.65 PbMg1/3Nb2/3O3?0.35PbTiO3Ceramics. Journal of the American Ceramic Society, 2007, 90, 2634-2638.	1.9	2
36	Impedance spectroscopy study of strontium modified lead zirconate titanate ceramics. Journal of Applied Physics, 2006, 99, 124114.	1.1	98

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37	Structural, dielectric and electrical properties of Ca modified BaSn0.15Ti0.85O3 Ceramics. Journal of Materials Science, 2005, 40, 5457-5462.	1.7	12
38	Synthesis and Characterization of Nanosized Ba1 â”xMgxSn0.15Ti0.85O3Ceramics. Ferroelectrics, 2005, 324, 21-29.	0.3	0
39	Effect of doping Ca ions on structural and electrical properties of Ba(Zr0.05Ti0.95)O3electroceramics. Journal of Materials Science: Materials in Electronics, 2004, 15, 671-675.	1.1	24
40	Novel technique for synthesis and characterization of nanosized Ba1?xSrxSn0.15Ti0.85O3 ceramics. Physica Status Solidi A, 2004, 201, 937-943.	1.7	7