

Biswajoy Bagchi

List of Publications by Year in descending order

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49
papers

1,843
citations

304368

22
h-index

264894

42
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49
all docs

49
docs citations

49
times ranked

1960
citing authors

#	ARTICLE	IF	CITATIONS
1	Copper nanowire embedded hypromellose: An antibacterial nanocomposite film. <i>Journal of Colloid and Interface Science</i> , 2022, 608, 30-39.	5.0	11
2	Re-usable self-poled piezoelectric/piezocatalytic films with exceptional energy harvesting and water remediation capability. <i>Nano Energy</i> , 2020, 78, 105339.	8.2	90
3	Essential oil impregnated luminescent hydroxyapatite: Antibacterial and cytotoxicity studies. <i>Materials Science and Engineering C</i> , 2020, 116, 111190.	3.8	10
4	Self-charging photo-power cell based on a novel polymer nanocomposite film with high energy density and durability. <i>Polymer Journal</i> , 2019, 51, 1197-1209.	1.3	4
5	Photo-charging polymeric sodium-ion cell based on YSZ/PVDF film. <i>Applied Physics Letters</i> , 2019, 115, .	1.5	2
6	Photo-Rechargeable Organic-Inorganic Dye-Integrated Polymeric Power Cell with Superior Performance and Durability. <i>Langmuir</i> , 2019, 35, 6346-6355.	1.6	20
7	Highly Efficient and Durable Piezoelectric Nanogenerator and Photo-power cell Based on CTAB Modified Montmorillonite Incorporated PVDF Film. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 4801-4813.	3.2	46
8	Portable Self-Powered Piezoelectric Nanogenerator and Self-Charging Photo-Power Pack Using In Situ Formed Multifunctional Calcium Phosphate Nanorod-Doped PVDF Films. <i>Langmuir</i> , 2019, 35, 17016-17026.	1.6	16
9	A facile vacuum assisted synthesis of nanoparticle impregnated hydroxyapatite composites having excellent antimicrobial properties and biocompatibility. <i>Ceramics International</i> , 2018, 44, 1066-1077.	2.3	25
10	Superior performances of in situ synthesized ZnO/PVDF thin film based self-poled piezoelectric nanogenerator and self-charged photo-power bank with high durability. <i>Nano Energy</i> , 2018, 44, 456-467.	8.2	202
11	In situ synthesized electroactive and large dielectric BaF ₂ /PVDF nanocomposite film for superior and highly durable self-charged hybrid photo-power cell. <i>Energy Conversion and Management</i> , 2018, 171, 1083-1092.	4.4	12
12	Biowaste crab shell-extracted chitin nanofiber-based superior piezoelectric nanogenerator. <i>Journal of Materials Chemistry A</i> , 2018, 6, 13848-13858.	5.2	95
13	Antimicrobial and biocompatible fluorescent hydroxyapatite-chitosan nanocomposite films for biomedical applications. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 171, 300-307.	2.5	45
14	In situ synthesized SrF ₂ /polyvinylidene fluoride nanocomposite film based photo-power cell with imperious performance and stability. <i>Electrochimica Acta</i> , 2018, 282, 194-204.	2.6	5
15	Er ³⁺ /Fe ³⁺ Stimulated Electroactive, Visible Light Emitting, and High Dielectric Flexible PVDF Film Based Piezoelectric Nanogenerators: A Simple and Superior Self-Powered Energy Harvester with Remarkable Power Density. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 23048-23059.	4.0	90
16	4-Chlorochalcone-Assisted Electroactive Polyvinylidene Fluoride Film-Based Energy Storage System Capable of Self-Charging Under Light. <i>Energy Technology</i> , 2017, 5, 2205-2215.	1.8	24
17	Synthesis of nanocrystalline photoluminescent mullite using sacrificial cotton wool and filter paper templates. <i>Journal of the American Ceramic Society</i> , 2017, 100, 4836-4847.	1.9	3
18	Salt-melt synthesis of B ₂ O ₃ , P ₂ O ₅ and V ₂ O ₅ modified high-alumina mullite nanocomposites with promising photoluminescence properties. <i>Materials Research Express</i> , 2017, 4, 105005.	0.8	5

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19	Electroactive and High Dielectric Folic Acid/PVDF Composite Film Rooted Simplistic Organic Photovoltaic Self-Charging Energy Storage Cell with Superior Energy Density and Storage Capability. ACS Applied Materials & Interfaces, 2017, 9, 24198-24209.	4.0	45
20	Nanostructured zirconia thin film fabricated by electrophoretic deposition technique. Journal of Alloys and Compounds, 2017, 693, 1220-1230.	2.8	49
21	Improving the thermal stability, electroactive $\hat{\Gamma}^2$ phase crystallization and dielectric constant of NiO nanoparticle/Ca ²⁺ NiO nanocomposite embedded flexible poly(vinylidene fluoride) thin films. RSC Advances, 2016, 6, 26288-26299.	1.7	33
22	Physico-chemical property-driven dielectric behaviour and catalytic activity of nanocrystalline mullite synthesized from monophasic precursor gel. Journal of Sol-Gel Science and Technology, 2016, 80, 769-782.	1.1	9
23	Synthesis of eucalyptus/tea tree oil absorbed biphasic calcium phosphate ²⁺ PVDF polymer nanocomposite films: a surface active antimicrobial system for biomedical application. Physical Chemistry Chemical Physics, 2016, 18, 16775-16785.	1.3	17
24	Enhanced electroactive $\hat{\Gamma}^2$ -phase nucleation and dielectric properties of PVdF-HFP thin films influenced by montmorillonite and Ni(OH) ₂ nanoparticle modified montmorillonite. RSC Advances, 2016, 6, 21881-21894.	1.7	62
25	Development of transition metal oxide ²⁺ kaolin composite pigments for potential application in paint systems. Applied Clay Science, 2015, 107, 205-212.	2.6	21
26	Effect of in situ synthesized Fe ₂ O ₃ and Co ₃ O ₄ nanoparticles on electroactive $\hat{\Gamma}^2$ phase crystallization and dielectric properties of poly(vinylidene fluoride) thin films. Physical Chemistry Chemical Physics, 2015, 17, 1368-1378.	1.3	104
27	Improvement of electroactive $\hat{\Gamma}^2$ phase nucleation and dielectric properties of WO ₃ ·H ₂ O nanoparticle loaded poly(vinylidene fluoride) thin films. RSC Advances, 2015, 5, 62819-62827.	1.7	41
28	A simple sol ²⁺ gel approach to synthesize nanocrystalline 8Åmol% yttria stabilized zirconia from metal-chelate precursors: Microstructural evolution and conductivity studies. Journal of Alloys and Compounds, 2015, 647, 620-626.	2.8	16
29	In situ synthesis of Ni(OH) ₂ nanobelt modified electroactive poly(vinylidene fluoride) thin films: remarkable improvement in dielectric properties. Physical Chemistry Chemical Physics, 2015, 17, 13082-13091.	1.3	83
30	The role of cerium(ⁱⁱⁱ)/yttrium(ⁱⁱⁱ) nitrate hexahydrate salts on electroactive $\hat{\Gamma}^2$ phase nucleation and dielectric properties of poly(vinylidene fluoride) thin films. RSC Advances, 2015, 5, 28487-28496.	1.7	79
31	Mechanical, dielectric and photoluminescence properties of alumina ²⁺ mullite composite derived from natural Ganges clay. Applied Clay Science, 2015, 114, 349-358.	2.6	36
32	Sol ²⁺ gel synthesis of transition-metal ion conjugated alumina-rich mullite nanocomposites with potential mechanical, dielectric and photoluminescence properties. RSC Advances, 2015, 5, 104299-104313.	1.7	17
33	Dielectric switching above a critical frequency occurred in iron mullite composites used as an electronic substrate. Journal of Materials Science: Materials in Electronics, 2014, 25, 5218-5225.	1.1	14
34	Abrupt change of dielectric properties in mullite due to titanium and strontium incorporation by sol-gel method. Journal of Advanced Ceramics, 2014, 3, 278-286.	8.9	21
35	A Comparative Study of Densification of Sol ²⁺ Gel ²⁺ Derived Nano ²⁺ Mullite due to the Influence of Iron, Nickel and Copper Ions. International Journal of Applied Ceramic Technology, 2014, 11, 1054-1060.	1.1	6
36	In situ synthesis of environmentally benign montmorillonite supported composites of Au/Ag nanoparticles and their catalytic activity in the reduction of p-nitrophenol. RSC Advances, 2014, 4, 61114-61123.	1.7	18

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37	Effect of vanadic anhydride and copper oxide on the development of hard porcelain composite and its antibacterial activity. <i>Journal of Asian Ceramic Societies</i> , 2014, 2, 297-304.	1.0	5
38	Enhancement of γ phase crystallization and dielectric behavior of kaolinite/halloysite modified poly(vinylidene fluoride) thin films. <i>Applied Clay Science</i> , 2014, 99, 149-159.	2.6	125
39	Copper Ion Doped Mullite Composite in Poly (vinylidene Fluoride) Matrix: Effect on Microstructure, Phase Behavior and Electrical Properties. <i>Journal of Research Updates in Polymer Science</i> , 2014, 3, 157-169.	0.3	6
40	In situ synthesis and antibacterial activity of copper nanoparticle loaded natural montmorillonite clay based on contact inhibition and ion release. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 108, 358-365.	2.5	104
41	Electrical and dielectric properties of sol-gel derived mullite doped with transition metals. <i>Materials Chemistry and Physics</i> , 2013, 138, 375-383.	2.0	43
42	Antimicrobial efficacy and biocompatibility study of copper nanoparticle adsorbed mullite aggregates. <i>Materials Science and Engineering C</i> , 2012, 32, 1897-1905.	3.8	61
43	The influence of cobalt acetate on sol-gel derived mullite densification behaviour. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2012, 27, 836-840.	0.4	5
44	Dielectric and magnetic properties of sol-gel derived mullite-iron nanocomposite. <i>Journal of Electroceramics</i> , 2012, 28, 261-267.	0.8	16
45	A study on the phytotoxicity of nano mullite and metal-amended nano mullite on mung bean plants. <i>Journal of Environmental Monitoring</i> , 2011, 13, 1709.	2.1	2
46	Effect of size of fly ash particle on enhancement of mullite content and glass formation. <i>Bulletin of Materials Science</i> , 2011, 34, 1663-1670.	0.8	15
47	Effect of nickel and cobalt ions on low temperature synthesis of mullite by sol-gel technique. <i>Journal of Sol-Gel Science and Technology</i> , 2010, 55, 135-141.	1.1	13
48	Mullite phase enhancement in Indian kaolins by addition of vanadium pentoxide. <i>Applied Clay Science</i> , 2010, 47, 409-413.	2.6	26
49	Nanocrystalline Mullite Synthesis at a Low Temperature: Effect of Copper Ions. <i>Journal of the American Ceramic Society</i> , 2009, 92, 748-751.	1.9	46