Arpan Kool

List of Publications by Year
in descending order

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29	1,108	471509 17	477307 29
papers	citations	h-index	g-index

30	30	30	1250
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Superior performances of in situ synthesized ZnO/PVDF thin film based self-poled piezoelectric nanogenerator and self-charged photo-power bank with high durability. Nano Energy, 2018, 44, 456-467.	16.0	202
2	Enhancement of Î² phase crystallization and dielectric behavior of kaolinite/halloysite modified poly(vinylidene fluoride) thin films. Applied Clay Science, 2014, 99, 149-159.	5.2	125
3	Effect of in situ synthesized Fe₂O₃and Co₃O₄nanoparticles on electroactive Î² phase crystallization and dielectric properties of poly(vinylidene fluoride) thin films. Physical Chemistry Chemical Physics, 2015, 17, 1368-1378.	2.8	104
4	Er³⁺/Fe³⁺ 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. ACS Applied Materials & Interfaces, 2017, 9, 23048-23059.	8.0	90
5	In situ synthesis of Ni(OH)₂nanobelt modified electroactive poly(vinylidene fluoride) thin films: remarkable improvement in dielectric properties. Physical Chemistry Chemical Physics, 2015, 17, 13082-13091.	2.8	83
6	The role of cerium(<scp>iii</scp>)/yttrium(<scp>iii</scp>) nitrate hexahydrate salts on electroactive Î² phase nucleation and dielectric properties of poly(vinylidene fluoride) thin films. RSC Advances, 2015, 5, 28487-28496.	3.6	79
7	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.	8.0	45
8	Antimicrobial and biocompatible fluorescent hydroxyapatite-chitosan nanocomposite films for biomedical applications. Colloids and Surfaces B: Biointerfaces, 2018, 171, 300-307.	5.0	45
9	Improvement of electroactive Î² phase nucleation and dielectric properties of WO₃Â·H₂O nanoparticle loaded poly(vinylidene fluoride) thin films. RSC Advances, 2015, 5, 62819-62827.	3.6	41
10	Mechanical, dielectric and photoluminescence properties of aluminaâ€“mullite composite derived from natural Ganges clay. Applied Clay Science, 2015, 114, 349-358.	5.2	36
11	Improving the thermal stability, electroactive Î² phase crystallization and dielectric constant of NiO nanoparticle/Câ€“NiO nanocomposite embedded flexible poly(vinylidene fluoride) thin films. RSC Advances, 2016, 6, 26288-26299.	3.6	33
12	Tunable photoluminescence emissions and large dielectric constant of the electroactive poly(vinylidene fluorideâ€“hexafluoropropylene) thin films modified with SnO₂ nanoparticles. RSC Advances, 2016, 6, 29931-29943.	3.6	26
13	A facile vacuum assisted synthesis of nanoparticle impregnated hydroxyapatite composites having excellent antimicrobial properties and biocompatibility. Ceramics International, 2018, 44, 1066-1077.	4.8	25
14	4â€²â€²Chlorochalconeâ€Assisted Electroactive Polyvinylidene Fluoride Filmâ€Based Energyâ€Storage System Capable of Selfâ€Charging Under Light. Energy Technology, 2017, 5, 2205-2215.	3.8	24
15	Photo-Rechargeable Organicâ€“Inorganic Dye-Integrated Polymeric Power Cell with Superior Performance and Durability. Langmuir, 2019, 35, 6346-6355.	3.5	20
16	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.	3.6	18
17	Solâ€“gel synthesis of transition-metal ion conjugated alumina-rich mullite nanocomposites with potential mechanical, dielectric and photoluminescence properties. RSC Advances, 2015, 5, 104299-104313.	3.6	17
18	Synthesis of eucalyptus/tea tree oil absorbed biphasic calcium phosphateâ€“PVDF polymer nanocomposite films: a surface active antimicrobial system for biomedical application. Physical Chemistry Chemical Physics, 2016, 18, 16775-16785.	2.8	17

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19	In situ synthesized electroactive and large dielectric BaF2/PVDF nanocomposite film for superior and highly durable self-charged hybrid photo-power cell. Energy Conversion and Management, 2018, 171, 1083-1092.	9.2	12
20	An efficient three-component synthesis of coumarin-3-carbamides by use of Niâ€“NiO nanoparticles as magnetically separable catalyst. RSC Advances, 2015, 5, 70718-70725.	3.6	11
21	Essential oil impregnated luminescent hydroxyapatite: Antibacterial and cytotoxicity studies. Materials Science and Engineering C, 2020, 116, 111190.	7.3	10
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.	2.4	9
23	Enhancement of Thermoelectric Performance in Oligomeric PEDOTâ€“SWCNT Nanocomposite via Band Gap Tuning. ChemistrySelect, 2018, 3, 8992-8997.	1.5	9
24	Effect of vanadic anhydride and copper oxide on the development of hard porcelain composite and its antibacterial activity. Journal of Asian Ceramic Societies, 2014, 2, 297-304.	2.3	5
25	Optical and dielectric properties of hydrothermally synthesized Ni(OH)2 nanoparticles: a morphology and size dependent study. Journal of Materials Science: Materials in Electronics, 2017, 28, 5375-5383.	2.2	5
26	Salt-melt synthesis of B₂O₃, P₂O₅ and V₂O₅ modified high-alumina mullite nanocomposites with promising photoluminescence properties. Materials Research Express, 2017, 4, 105005.	1.6	5
27	In situ synthesized SrF2/polyvinylidene fluoride nanocomposite film based photo-power cell with imperious performance and stability. Electrochimica Acta, 2018, 282, 194-204.	5.2	5
28	Self-charging photo-power cell based on a novel polymer nanocomposite film with high energy density and durability. Polymer Journal, 2019, 51, 1197-1209.	2.7	4
29	Synthesis of nanocrystalline photoluminescent mullite using sacrificial cotton wool and filter paper templates. Journal of the American Ceramic Society, 2017, 100, 4836-4847.	3.8	3