Subrata Karmakar

List of Publications by Year
in descending order

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26	459	687363 13	713466 21
papers	citations	h-index	g-index

26	26	26	338
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Polaron assisted electrical transport and fertile field emission response in polycrystalline LiNi0.33Co0.33Mn0.33O2 with theoretical insight by density functional theory. Journal of Alloys and Compounds, 2022, 891, 162056.	5.5	2
2	Structural Metamorphosis and Band Dislocation of Trirutile NiTa₂O₆ under Compression. Journal of Physical Chemistry C, 2022, 126, 4106-4117.	3.1	1
3	Low-Temperature Spin-Canted Magnetism and Bipolaron Freezing Electrical Transition in Potential Electron Field Emitter NdNiO₃. ACS Applied Electronic Materials, 2022, 4, 3134-3146.	4.3	3
4	Dielectric relaxation behavior and overlapping large polaron tunneling conduction mechanism in NiOâ€“PbO Î¼-cauliflower composites. Journal of Alloys and Compounds, 2021, 851, 156789.	5.5	22
5	Comparison of electrochemical response and electric field emission characteristics of pristine La2NiO4 and La2NiO4/CNT composites: Origin of multi-functionality with theoretical penetration by density functional theory. Electrochimica Acta, 2021, 369, 137676.	5.2	15
6	Enhancement of Pseudocapacitive Behavior, Cyclic Performance, and Field Emission Characteristics of Reduced Graphene Oxide Reinforced NiGa₂O₄ Nanostructured Electrode: A First Principles Calculation to Correlate with Experimental Observation. Journal of Physical Chemistry C, 2021, 125, 7898-7912.	3.1	15
7	Exploration of alternating current conduction mechanism and dielectric relaxation with Maxwellâ€“Wagner effect in NiOâ€“CdOâ€“Gd2O3 nanocomposites. European Physical Journal Plus, 2021, 136, 1.	2.6	7
8	Magnetic and Optical Studies of NiFe2O4 Micro- and Nanoparticles. Journal of Superconductivity and Novel Magnetism, 2020, 33, 1619-1627.	1.8	20
9	Microporous networks of NiMn₂O₄ as a potent cathode material for electric field emission. Journal Physics D: Applied Physics, 2020, 53, 055103.	2.8	11
10	Fowlerâ€“Nordheim Law Correlated with Improved Field Emission in Selfâ€Assembled NiCr₂O₄ Nanosheets. Physica Status Solidi (A) Applications and Materials Science, 2020, 217, 1900741.	1.8	6
11	Pressure-induced octahedral tilting distortion and structural phase transition in columbite structured NiNb2O6. Journal of Applied Physics, 2020, 128, .	2.5	9
12	High-temperature impedance and alternating current conduction mechanism of Ni0.5Zn0.5WO4 micro-crystal for electrical energy storage application. Journal of the Australian Ceramic Society, 2020, 56, 1253-1259.	1.9	18
13	Superior field emission and alternating current conduction mechanisms for grains and grain boundaries in an NiO-[CdO]2 nanocomposite. Journal of Physics and Chemistry of Solids, 2020, 142, 109462.	4.0	16
14	Band-correlated barrier-hopping conduction in Î±-NiMoO4 micro-crystals and comparison of its energy storage performance with MWCNT-integrated complex. Journal of Materials Science: Materials in Electronics, 2020, 31, 5336-5352.	2.2	11
15	Electric field emission and anomalies of electrical conductivity above room temperature in heterogeneous NiO-SnO2 nano-ceramic composites. Journal of Applied Physics, 2020, 127, .	2.5	24
16	Electrochemical performance of heterogeneous, mesopores and non-centrosymmetric Core@shell NiCo2O4@MnO2 nanocomposites and itsÂMWCNT blended complex for supercapacitor applications. Journal of Solid State Chemistry, 2019, 280, 121013.	2.9	24
17	Improvement of critical parameters of YBCO superconductor by addition of graphene oxide. AIP Conference Proceedings, 2019, , .	0.4	2
18	Non-overlapping small polaron tunneling conduction coupled dielectric relaxation in weak ferromagnetic NiAl₂O₄. Journal of Physics Condensed Matter, 2019, 31, 245701.	1.8	34

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19	Small polaron hopping conduction in NiMnO3/NiMn2O4 nano-cotton and its emerging energy application with MWCNT. Ceramics International, 2019, 45, 13052-13066.	4.8	35
20	Observation of room temperature Raman, magnetic and ferroelectric response of (1 â˜' x)NiCo2O4 â˜' xBaTiO3 nanocomposites system. AIP Conference Proceedings, 2019, , .	0.4	0
21	Almond-West type grain and grain boundary conduction-modified dielectric relaxation in NdCoO3. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	2.3	15
22	Investigation of optical, electrical and magnetic properties of hexagonal NiTiO₃ nanoparticles prepared via ultrasonic dispersion techniques for high power applications. Materials Research Express, 2018, 5, 055037.	1.6	9
23	Investigation of structural and electrical transport properties of nano-flower shaped NiCo2O4 supercapacitor electrode materials. Journal of Alloys and Compounds, 2018, 757, 49-59.	5.5	67
24	A Study on Optical and Dielectric Properties of Ni-ZnO nanocomposite. Materials Science in Semiconductor Processing, 2018, 88, 198-206.	4.0	40
25	Construction of core@shell nanostructured NiFe2O4@TiO2 ferrite NAND logic gate using fluorescence quenching mechanism for TiO2 sensing. Journal of Alloys and Compounds, 2018, 765, 527-537.	5.5	32
26	In Situ Optical Emission Spectroscopic Investigations During Arc Plasma Synthesis of Iron Oxide Nanoparticles by Thermal Plasma. IEEE Transactions on Plasma Science, 2006, 34, 1175-1182.	1.3	21