

Subrata Karmakar

List of Publications by Year in descending order

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papers

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citations

687363

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docs citations

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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Investigation of structural and electrical transport properties of nano-flower shaped NiCo ₂ O ₄ supercapacitor electrode materials. Journal of Alloys and Compounds, 2018, 757, 49-59.	5.5	67
2	A Study on Optical and Dielectric Properties of Ni-ZnO nanocomposite. Materials Science in Semiconductor Processing, 2018, 88, 198-206.	4.0	40
3	Small polaron hopping conduction in NiMnO ₃ /NiMn ₂ O ₄ nano-cotton and its emerging energy application with MWCNT. Ceramics International, 2019, 45, 13052-13066.	4.8	35
4	Non-overlapping small polaron tunneling conduction coupled dielectric relaxation in weak ferromagnetic NiAl ₂ O ₄ . Journal of Physics Condensed Matter, 2019, 31, 245701.	1.8	34
5	Construction of core@shell nanostructured NiFe ₂ O ₄ @TiO ₂ ferrite NAND logic gate using fluorescence quenching mechanism for TiO ₂ sensing. Journal of Alloys and Compounds, 2018, 765, 527-537.	5.5	32
6	Electrochemical performance of heterogeneous, mesopores and non-centrosymmetric Core@shell NiCo ₂ O ₄ @MnO ₂ nanocomposites and its MWCNT blended complex for supercapacitor applications. Journal of Solid State Chemistry, 2019, 280, 121013.	2.9	24
7	Electric field emission and anomalies of electrical conductivity above room temperature in heterogeneous NiO-SnO ₂ nano-ceramic composites. Journal of Applied Physics, 2020, 127, .	2.5	24
8	Dielectric relaxation behavior and overlapping large polaron tunneling conduction mechanism in NiO@PbO 1/4-cauliflower composites. Journal of Alloys and Compounds, 2021, 851, 156789.	5.5	22
9	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
10	Magnetic and Optical Studies of NiFe ₂ O ₄ Micro- and Nanoparticles. Journal of Superconductivity and Novel Magnetism, 2020, 33, 1619-1627.	1.8	20
11	High-temperature impedance and alternating current conduction mechanism of Ni _{0.5} Zn _{0.5} WO ₄ micro-crystal for electrical energy storage application. Journal of the Australian Ceramic Society, 2020, 56, 1253-1259.	1.9	18
12	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
13	Almond-West type grain and grain boundary conduction-modified dielectric relaxation in NdCoO ₃ . Applied Physics A: Materials Science and Processing, 2018, 124, 1.	2.3	15
14	Comparison of electrochemical response and electric field emission characteristics of pristine La ₂ NiO ₄ and La ₂ NiO ₄ /CNT composites: Origin of multi-functionality with theoretical penetration by density functional theory. Electrochimica Acta, 2021, 369, 137676.	5.2	15
15	Enhancement of Pseudocapacitive Behavior, Cyclic Performance, and Field Emission Characteristics of Reduced Graphene Oxide Reinforced NiGa ₂ O ₄ Nanostructured Electrode: A First Principles Calculation to Correlate with Experimental Observation. Journal of Physical Chemistry C, 2021, 125, 7898-7912.	3.1	15
16	Microporous networks of NiMn ₂ O ₄ as a potent cathode material for electric field emission. Journal Physics D: Applied Physics, 2020, 53, 055103.	2.8	11
17	Band-correlated barrier-hopping conduction in NiMoO ₄ 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
18	Investigation of optical, electrical and magnetic properties of hexagonal NiTiO ₃ nanoparticles prepared via ultrasonic dispersion techniques for high power applications. Materials Research Express, 2018, 5, 055037.	1.6	9

#	ARTICLE	IF	CITATIONS
19	Pressure-induced octahedral tilting distortion and structural phase transition in columbite structured NiNb ₂ O ₆ . Journal of Applied Physics, 2020, 128, .	2.5	9
20	Exploration of alternating current conduction mechanism and dielectric relaxation with Maxwell-Wagner effect in NiO-CdO-Gd ₂ O ₃ nanocomposites. European Physical Journal Plus, 2021, 136, 1.	2.6	7
21	Fowler-Nordheim Law Correlated with Improved Field Emission in Self-Assembled NiCr ₂ O ₄ Nanosheets. Physica Status Solidi (A) Applications and Materials Science, 2020, 217, 1900741.	1.8	6
22	Low-Temperature Spin-Canted Magnetism and Bipolaron Freezing Electrical Transition in Potential Electron Field Emitter NdNiO ₃ . ACS Applied Electronic Materials, 2022, 4, 3134-3146.	4.3	3
23	Improvement of critical parameters of YBCO superconductor by addition of graphene oxide. AIP Conference Proceedings, 2019, .	0.4	2
24	Polaron assisted electrical transport and fertile field emission response in polycrystalline LiNi _{0.33} Co _{0.33} Mn _{0.33} O ₂ with theoretical insight by density functional theory. Journal of Alloys and Compounds, 2022, 891, 162056.	5.5	2
25	Structural Metamorphosis and Band Dislocation of Trirutile NiTa ₂ O ₆ under Compression. Journal of Physical Chemistry C, 2022, 126, 4106-4117.	3.1	1
26	Observation of room temperature Raman, magnetic and ferroelectric response of (1 - x)NiCo ₂ O ₄ - xBaTiO ₃ nanocomposites system. AIP Conference Proceedings, 2019, .	0.4	0