Anirban Chowdhury

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Structural properties and the fluorite–pyrochlore phase transition in La 2 Zr 2 O 7 : The role of oxygen to induce local disordered states. Journal of Alloys and Compounds, 2016, 686, 130-136.	2.8	65
2	Nano-powders of Na0.5K0.5NbO3 made by a sol–gel method. Journal of Nanoparticle Research, 2010, 12, 209-215.	0.8	48
3	Effect of rare-earth doping in CeO2 matrix: Correlations with structure, catalytic and visible light photocatalytic properties. Ceramics International, 2017, 43, 17041-17047.	2.3	46
4	Effect of compaction on the kinetics of thermal decomposition of dolomite under non-isothermal condition. Journal of Materials Science, 2005, 40, 4749-4751.	1.7	45
5	Nanopowders of Na _{0.5} K _{0.5} NbO ₃ Prepared by the Pechini Method. Journal of the American Ceramic Society, 2009, 92, 758-761.	1.9	43
6	Fundamental Issues in the Synthesis of Ferroelectric Na0.5K0.5NbO3 Thin Films by Solâ^'Gel Processing. Chemistry of Materials, 2010, 22, 3862-3874.	3.2	35
7	Synergistic effects of ultrasonication and ethanol washing in controlling the stoichiometry, phase-purity and morphology of rare-earth doped ceria nanoparticles. Ultrasonics Sonochemistry, 2017, 36, 182-190.	3.8	33
8	Antibacterial and natural room-light driven photocatalytic activities of CuO nanorods. Materials Chemistry and Physics, 2019, 226, 106-112.	2.0	32
9	Synthesis of La-doped ceria nanoparticles: impact of lanthanum depletion. Journal of Materials Science, 2016, 51, 4134-4141.	1.7	29
10	Structural Investigations on the Compositional Anomalies in Lanthanum Zirconate System Synthesized by Coprecipitation Method. Journal of the American Ceramic Society, 2014, 97, 718-724.	1.9	28
11	The effect of refluxing on the alkoxide-based sodium potassium niobate sol–gel system: Thermal and spectroscopic studies. Journal of Solid State Chemistry, 2011, 184, 317-324.	1.4	26
12	Exceptionally high fracture toughness of carbon nanotube reinforced plasma sprayed lanthanum zirconate coatings. Journal of Alloys and Compounds, 2019, 777, 1133-1144.	2.8	25
13	Investigations on the role of alkali to obtain modulated defect concentrations for Cu2O thin films. Applied Surface Science, 2014, 289, 430-436.	3.1	23
14	Nano-twinned structure and photocatalytic properties under visible light for undoped nano-titania synthesised by hydrothermal reaction in water–ethanol mixture. Journal of Supercritical Fluids, 2011, 58, 136-141.	1.6	22
15	TEM and XPS studies on the faceted nanocrystals of Ce0.8Zr0.2O2. Materials Characterization, 2015, 100, 31-35.	1.9	18
16	Use of Novel Nanostructured Photocatalysts for the Environmental Sustainability of Wastewater Treatments. , 2020, , 949-964.		17
17	Facile synthesis of CuO nanorods obtained without any template and/or surfactant. Ceramics International, 2017, 43, 13943-13947.	2.3	16
18	Structureâ€property relations for a phaseâ€pure, nanograined tetragonal zirconia ceramic stabilized with minimum CaO doping. Journal of the American Ceramic Society, 2021, 104, 3497-3507.	1.9	15

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19	Evidence of phase heterogeneity in sol–gel Na0.5K0.5NbO3 system. Materials Chemistry and Physics, 2010, 124, 159-162.	2.0	12
20	CaO-doped tetragonal ZrO2 nanoparticles as an effective adsorbent for the removal of organic dye waste. Applied Surface Science, 2022, 596, 153651.	3.1	12
21	Photo-assisted control of gold and silver nanostructures on silicon and its SERRS effect. Journal Physics D: Applied Physics, 2013, 46, 275303.	1.3	11
22	Morphology, surface topography and optical studies on electron beam evaporated MgO thin films. Bulletin of Materials Science, 2006, 29, 513-521.	0.8	10
23	Attaining near-theoretical densification in nanograined pyrochlore La 2 Zr 2 O 7 (LZ) ceramic at 1150 °C by spark plasma sintering. Scripta Materialia, 2016, 117, 37-40.	2.6	9
24	TGA–FTIR study of a lead zirconate titanate gel made from a triol-based sol–gel system. Thermochimica Acta, 2008, 475, 59-64.	1.2	8
25	La3+-doped CeO2 system: Negating the myths with a tailor-made ceramic. Scripta Materialia, 2018, 157, 138-141.	2.6	8
26	LASER TRANSFER PROCESSING AND THE INTEGRATION OF FERROELECTRIC FILMS. Integrated Ferroelectrics, 2009, 106, 40-48.	0.3	7
27	Reaping the remarkable benefits of a â€~burst nucleation' approach for a ceria doped zirconia system. Journal of Alloys and Compounds, 2019, 802, 318-325.	2.8	7
28	Can a shape factor in bulk ceramics mitigate unwanted phase transformations?. Scripta Materialia, 2021, 190, 52-56.	2.6	7
29	Appearance of Fröhlich-like phonon mode and defect dynamics in La3+-doped ceria. Journal of Applied Physics, 2017, 122, 135108.	1.1	7
30	Discrepancies in the hardness data and the role of grindingâ€induced surface effects for a porous zirconate ceramic. Journal of the American Ceramic Society, 2017, 100, 1717-1723.	1.9	6
31	Constitutive modelling and Weibull statistical analysis for the porosity - Mechanical property correlations in 3% yittria-stabilized zirconia system. International Journal of Refractory Metals and Hard Materials, 2018, 70, 246-252.	1.7	6
32	Role of various alcohol washing media in obtaining a remarkable texture for La 2 Ce 2 O 7 powders and ceramics. Journal of the American Ceramic Society, 2020, 103, 1563-1574.	1.9	5
33	Reviewing the cases of Nanoscale Heterogeneity in Ceramics: Boon or Bane?. Materialia, 2021, 16, 101109.	1.3	5
34	Structure-property correlations for the surfactant-free faceted nanocrystals of Ce1â^'xZrxO2 and their bulk ceramics. Materials Research Bulletin, 2019, 112, 38-45.	2.7	4
35	Phase integrity of zinc oxide doped zirconia under low compacting pressure. Journal of Alloys and Compounds, 2020, 843, 155927.	2.8	4
36	On the peculiarities of phase developments involving Zn 2+ -doped ZrO 2 system. Scripta Materialia, 2017, 138, 71-74.	2.6	4

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37	Noteworthy differences between vertical and horizontal sintering of ceramic samples. Journal of Alloys and Compounds, 2022, 923, 166309.	2.8	4
38	Structural, thermal, dielectric studies on sol–gel derived MgO from non-alkoxide route. Materials Science and Technology, 2006, 22, 1249-1254.	0.8	3
39	Densification and enhanced polarisation in lead zirconate titanate sol–gel thin films. Materials Chemistry and Physics, 2009, 113, 135-139.	2.0	3
40	Pushing the limits of analytical characterization tools: How much is too much?. , 2020, , 239-275.		3
41	Structural and dielectric properties of the fluorite-type LaxCe1â^'xO2â^'δceramics. Journal Physics D: Applied Physics, 2017, 50, 495601.	1.3	2
42	Crucial dependence of â€~trivial' processing factors on the texture-electrical resistivity relationship of La2Ce2O7 ceramic. Materials Letters, 2022, 314, 131858.	1.3	2
43	Impact of different metallic forms of nickel on hydrogen evolution reaction. Scripta Materialia, 2022, 218, 114829.	2.6	2
44	Stabilization of ZrO2 matrix: Revisiting the â€~archaic' issue with a peculiar example. Scripta Materialia, 2019, 162, 408-411.	2.6	1
45	Structure, Property, Processing and Applications of Fire Retardant Materials: A Brief Review. Advanced Materials Research, 0, 1170, 87-116.	0.3	1
46	Structural and spectroscopic characterisations of the surface oxide scales and inclusions present on edge-burst hot-rolled steel coils. Materials Chemistry and Physics, 2014, 148, 276-283.	2.0	0
47	Functional properties of LaxCe1â^'xO2â^´î´ nanocrystals and their bulk ceramics. Journal of Materials Science: Materials in Electronics, 2019, 30, 2096-2106.	1.1	Ο
48	Reviewing the Potential of Novel Nanofillers in Polymer Matrices for Advanced Technological Applications. , 2021, , .		0
49	Process-structure correlations in complex A2B2O7 systems: Nanoparticles and ceramics. , 2022, , 181-240.		0