

Binay Kumar

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

418
citations

759233

12
h-index

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19
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all docs

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docs citations

30
times ranked

369
citing authors

#	ARTICLE	IF	CITATIONS
1	Development of new L- Serine Squarate single crystal: Growth, structure, Hirshfeld surface analysis with enrichment ratio of atomic contacts. Journal of Molecular Structure, 2021, 1224, 129190.	3.6	11
2	Influence of xylene orange dye on structural, vibrational, thermal and luminescence properties of TGS crystals. Journal of Materials Science: Materials in Electronics, 2021, 32, 2486-2504.	2.2	5
3	Ba-doped ZnO nanorods: Efficient piezoelectric filler material for PDMS based flexible nanogenerator. Vacuum, 2021, 191, 110385.	3.5	20
4	Effect of different forms of carbon on the reduction behaviour of iron ore-carbonaceous material composite pellets in multi-layer bed rotary hearth furnace (RHF). Canadian Metallurgical Quarterly, 2021, 60, 281-293.	1.2	3
5	Flood Forecasting in Large River Basins Using FOSS Tool and HPC. Water (Switzerland), 2021, 13, 3484.	2.7	2
6	A review on piezo-/ferro-electric properties of morphologically diverse ZnO nanostructures. Journal of Alloys and Compounds, 2020, 816, 152491.	5.5	82
7	Lead-free 0.95(K0.6Na0.4)NbO3-0.05(Bi0.5Na0.5)ZrO3 ceramic for high temperature dielectric, ferroelectric and piezoelectric applications. Journal of Alloys and Compounds, 2020, 818, 152874.	5.5	13
8	Comparative exergy analysis between rotary hearth furnace-electric arc furnace and blast furnace-basic oxygen furnace steelmaking routes. Energy and Climate Change, 2020, 1, 100016.	4.4	5
9	Modified CZ technique for the growth of organic crystals having low melting point and high vapour pressure. Journal of Crystal Growth, 2020, 535, 125534.	1.5	4
10	Design Architecture of Glacier Lake Outburst Flood (GLOF) Early Warning System Using Ultrasonic Sensors. , 2020, , .		1
11	On the prediction of external shape of ZnO nanocrystals. Physica E: Low-Dimensional Systems and Nanostructures, 2019, 106, 291-297.	2.7	17
12	Sunset yellow dye doped ammonium dihydrogen phosphate single crystals with enhanced optical, mechanical and piezoelectric properties. Journal of Materials Science: Materials in Electronics, 2019, 30, 14902-14912.	2.2	8
13	Anisotropic electrical and optical studies of organic biphenyl single crystal grown by modified Czochralski technique. Journal of Materials Science: Materials in Electronics, 2019, 30, 3909-3920.	2.2	4
14	Lead-free high Tc ferroelectric material: Hierarchical Dy-doped ZnO architectures co-assembled by 1D nanorods and 2D nanosheets. Journal of Alloys and Compounds, 2019, 801, 626-639.	5.5	8
15	New quaternary BNTâ€“BTâ€“PMNâ€“PT ceramic: ferro-/piezo-/pyroelectric characterizations. Journal of Materials Science: Materials in Electronics, 2019, 30, 12729-12738.	2.2	6
16	Y3+ doped 0.64PMN-0.36PT ceramic for energy scavenging applications: Excellent piezo-/ferro-response with the investigations of true-remanent polarization and resistive leakage. Journal of Alloys and Compounds, 2019, 790, 274-287.	5.5	15
17	Hierarchical Sm-doped ZnO nanorodâ€“nanosheet architecture: dielectric and ferroelectric studies. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	2.3	13
18	Flexible lead-free piezo-/ferroelectric Bi0.5(Na0.6K0.4)0.5TiO3 ceramic incorporated PDMS polymer composites for energy harvesting application. Journal of Materials Science: Materials in Electronics, 2019, 30, 6157-6165.	2.2	13

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19	3D hierarchical Ho-doped ZnO micro-flowers assembled with nanosheets: A high temperature ferroelectric material. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2019, 105, 29-40.	2.7	21
20	Growth of pure and BFO doped KCl crystals by Czochralski technique and fabrication of microstrip patch antenna for GHz applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 2118-2126.	2.2	4
21	Experimental investigation of recovery and efficiency of calcium addition through cored wire in steel melt at Visakhapatnam Steel Plant. <i>Ironmaking and Steelmaking</i> , 2019, 46, 454-462.	2.1	8
22	Growth of an 8-hydroxyquinoline single crystal by a modified Czochralski growth technique, and crystal characterization. <i>CrystEngComm</i> , 2018, 20, 624-630.	2.6	13
23	Ferroelectric Sb-doped PMN-PT crystal: high electromechanical response with true-remanent polarization and resistive leakage analyses. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 19567-19577.	2.2	13
24	2D porous nanosheets of Y-doped ZnO for dielectric and ferroelectric applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 13818-13832.	2.2	26
25	0.37BF-0.31PMN-0.32PT: A superior piezo-/pyro-/ferro-electric ternary ceramic at MPB. <i>Ceramics International</i> , 2018, 44, 18633-18640.	4.8	12
26	Enhanced dielectric, ferroelectric and piezoelectric performance of Nd-ZnO nanorods and their application in flexible piezoelectric nanogenerator. <i>Journal of Alloys and Compounds</i> , 2018, 767, 1003-1011.	5.5	46
27	Sunset yellow dyed triglycine sulfate single crystals: enhanced thermal, mechanical, optical and di-/piezo-/ferro-/pyro-electric properties. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 13449-13463.	2.2	26
28	Estimation of Carbon Dioxide Emissions in Rotary Hearth Furnace Using a Thermodynamic Model. <i>Steel Research International</i> , 2017, 88, 1600265.	1.8	9
29	DEM Generation for Lunar Surface using Chandrayaan-1 TMC Triplet Data. <i>Journal of the Indian Society of Remote Sensing</i> , 2012, 40, 551-564.	2.4	6
30	Status of environment in Chotanagpur-Santal Pargana region of Jharkhand. <i>Social Change</i> , 1999, 29, 201-219.	0.3	4