

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

794594

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g-index

30
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30
docs citations

30
times ranked

369
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | A review on piezo-/ferro-electric properties of morphologically diverse ZnO nanostructures. Journal of Alloys and Compounds, 2020, 816, 152491. | 5.5 | 82 |
| 2 | Enhanced dielectric, ferroelectric and piezoelectric performance of Nd-ZnO nanorods and their application in flexible piezoelectric nanogenerator. Journal of Alloys and Compounds, 2018, 767, 1003-1011. | 5.5 | 46 |
| 3 | 2D porous nanosheets of Y-doped ZnO for dielectric and ferroelectric applications. Journal of Materials Science: Materials in Electronics, 2018, 29, 13818-13832. | 2.2 | 26 |
| 4 | Sunset yellow dyed triglycine sulfate single crystals: enhanced thermal, mechanical, optical and di-/piezo-/ferro-/pyro-electric properties. Journal of Materials Science: Materials in Electronics, 2018, 29, 13449-13463. | 2.2 | 26 |
| 5 | 3D hierarchical Ho-doped ZnO micro-flowers assembled with nanosheets: A high temperature ferroelectric material. Physica E: Low-Dimensional Systems and Nanostructures, 2019, 105, 29-40. | 2.7 | 21 |
| 6 | Ba-doped ZnO nanorods: Efficient piezoelectric filler material for PDMS based flexible nanogenerator. Vacuum, 2021, 191, 110385. | 3.5 | 20 |
| 7 | On the prediction of external shape of ZnO nanocrystals. Physica E: Low-Dimensional Systems and Nanostructures, 2019, 106, 291-297. | 2.7 | 17 |
| 8 | 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 |
| 9 | Growth of an 8-hydroxyquinoline single crystal by a modified Czochralski growth technique, and crystal characterization. CrystEngComm, 2018, 20, 624-630. | 2.6 | 13 |
| 10 | Ferroelectric Sb-doped PMN-PT crystal: high electromechanical response with true-remanent polarization and resistive leakage analyses. Journal of Materials Science: Materials in Electronics, 2018, 29, 19567-19577. | 2.2 | 13 |
| 11 | Hierarchical Sm-doped ZnO nanorod-nanosheet architecture: dielectric and ferroelectric studies. Applied Physics A: Materials Science and Processing, 2019, 125, 1. | 2.3 | 13 |
| 12 | 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 |
| 13 | 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 |
| 14 | 0.37BF-0.31PMN-0.32PT: A superior piezo-/pyro-/ferro-electric ternary ceramic at MPB. Ceramics International, 2018, 44, 18633-18640. | 4.8 | 12 |
| 15 | 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 |
| 16 | Estimation of Carbon Dioxide Emissions in Rotary Hearth Furnace Using a Thermodynamic Model. Steel Research International, 2017, 88, 1600265. | 1.8 | 9 |
| 17 | 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 |
| 18 | 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 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | 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 |
| 20 | 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 |
| 21 | New quaternary BNT-BT-PMN-PT ceramic: ferro-/piezo-/pyroelectric characterizations. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 12729-12738. | 2.2 | 6 |
| 22 | Comparative exergy analysis between rotary hearth furnace-electric arc furnace and blast furnace-basic oxygen furnace steelmaking routes. <i>Energy and Climate Change</i> , 2020, 1, 100016. | 4.4 | 5 |
| 23 | Influence of xylene orange dye on structural, vibrational, thermal and luminescence properties of TGS crystals. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 2486-2504. | 2.2 | 5 |
| 24 | Status of environment in Chotanagpur-Santal Pargana region of Jharkhand. <i>Social Change</i> , 1999, 29, 201-219. | 0.3 | 4 |
| 25 | Anisotropic electrical and optical studies of organic biphenyl single crystal grown by modified Czochralski technique. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 3909-3920. | 2.2 | 4 |
| 26 | 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 |
| 27 | Modified CZ technique for the growth of organic crystals having low melting point and high vapour pressure. <i>Journal of Crystal Growth</i> , 2020, 535, 125534. | 1.5 | 4 |
| 28 | 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). <i>Canadian Metallurgical Quarterly</i> , 2021, 60, 281-293. | 1.2 | 3 |
| 29 | Flood Forecasting in Large River Basins Using FOSS Tool and HPC. <i>Water (Switzerland)</i> , 2021, 13, 3484. | 2.7 | 2 |
| 30 | Design Architecture of Glacier Lake Outburst Flood (GLOF) Early Warning System Using Ultrasonic Sensors. , 2020, , . | | 1 |