

List of Publications

Book Chapter

1. A. Chanda, S. Goswami, and **Dipten Bhattacharya**, “Energy efficient future generation electronics based on strongly correlated electron systems”, in *Sustainable Energy Technology and Policies: A Transformational Journey*, Volume 2, edited by S. De, S. Bandyopadhyay, M. Assadi, and D.A. Mukherjee (Springer Nature, Singapore, 2018) pp. 397. [ISBN 978-981-10-8392-1, ISSN 1865-3529]

In Refereed Journals

76. S. Das, R.C. Sahoo, S. Mishra, **Dipten Bhattacharya**, and T.K. Nath, “Effects of Ni doping at Co-site on dielectric, impedance spectroscopy, and ac conductivity in $\text{La}_2\text{CoMnO}_6$ double perovskites”, *J. Appl. Phys.* (under review).
- *75. S. Mishra, C.K. Ghosh, A. Sahoo, **Dipten Bhattacharya**, S. Mondal, and P. Mandal, “Electric-field-driven resistive transition in multiferroic $\text{SrCo}_2\text{Fe}_{16}\text{O}_{27}/\text{Sr}_3\text{Co}_2\text{Fe}_{24}\text{O}_{41}$ composite”, *Phys. Rev. B* (under review).
74. A. Sahoo, M. Das, P. Mandal, and **Dipten Bhattacharya**, “Hydrothermal synthesis of $\text{Bi}_2\text{Fe}_4\text{O}_9$ nanochains and study of their multiferroic coupling”, *Mater. Lett.* **296**, 129905 (2021).
73. S. Goswami, K. Dey, S. Chakraborty, S. Giri, U. Chowdhury, and **Dipten Bhattacharya**, “Large magnetoelectric coupling in thin film of multiferroic CuO ”, *ACS Omega* **5**, 22883 (2020).
72. S. Goswami, A. Sahoo, **Dipten Bhattacharya**, O. Karci, and P.K. Mohanty, “Large structure-dependent room temperature exchange bias in self-assembled BiFeO_3 nanoparticles”, *APL Mater.* **8**, 081101 (2020).
71. C. Khatua, **Dipten Bhattacharya**, and V. K. Balla, “In-situ electrical stimulation for enhanced bone growth: a mini review”, *Medical Devices & Sensors* **3**, 10090 (2020).
70. A. Sahoo, **Dipten Bhattacharya**, and P.K. Mohanty, “Effect of surface pinning on magnetic nanostructures”, *Phys. Rev. B* **101**, 064414 (2020).
- *69. U. Chowdhury, S. Goswami, A. Roy, S.S. Rajput, A.K. Mall, R. Gupta, S.D. Kaushik, V. Siruguri, S. Saravanakumar, S. Israel, R. Saravanan, A. Senyshyn, T. Chatterji, J.F. Scott, A. Garg, and **Dipten Bhattacharya**, “Origin of ferroelectricity in orthorhombic LuFeO_3 ”, *Phys. Rev. B* **100**, 195116 (2019).

68. B. Sikder, A. Chanda, S. Goswami, **Dipten Bhattacharya**, and S. Velaga, “Influence of spin-state transition on structural and other physical properties in $\text{Ba}_{0.5}\text{Sr}_{0.5}\text{Co}_{0.8}\text{Fe}_{0.2}\text{O}_{3-\delta}$ ceramic”, *Mater. Chem. Phys.* **236**, 121770 (2019).
67. C. Khatua, S. Sengupta, B. Kundu, **Dipten Bhattacharya**, and V.K. Balla, “Enhanced strength, in-vitro bone cell differentiation, and mineralization of injectable bone cement reinforced with multiferroic particles”, *Materials and Design* **167**, 107628 (2019).
- *66. A. Sahoo and **Dipten Bhattacharya**, “Shape-dependent magnetoelectric coupling in nanoscale BiFeO_3 ”, *J. Alloys Compd.* **772**, 193 (2019).
65. C. Khatua, **Dipten Bhattacharya**, B. Kundu, V.K. Balla, S. Bodhak, and S. Goswami, “Fabrication and properties of bioactive glass/bismuth ferrite composites for bone tissue engineering applications”, *Adv. Engg. Mater.* **20**, 1800329 (2018).
- *64. S. Goswami, **Dipten Bhattacharya**, C.K. Ghosh, B. Ghosh, S.D. Kaushik, V. Siruguri, and P.S.R. Krishna, “Nonmonotonic particle size dependence of magnetoelectric coupling in strained nanosized particles of BiFeO_3 ”, *Sci. Rep.* **8**, 3728 (2018).
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62. R. Singh, A. Chakravarty, U. Chowdhury, **D. Bhattacharya**, and S.K. Biswas, “Electrical conduction aluminium nitride-single-walled carbon nanotube nanocomposites”, *Mater. Lett.* **215**, 144 (2018).
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* marked papers have been submitted as corresponding author