

Research papers published by the faculties during 2017-2022

Dr. Sujit Kumar Dehury, Assistant Professor of Chemistry

1. Parida, K., Dehury, S.K., Choudhary, R.N.P. Electrical, optical and magneto-electric characteristics of BiBaFeCeO₆ electronic system, Materials Science and Engineering B: Solid-State Materials for Advanced Technology, Volume 225, November 2017, Pages 173-181. ISSN 0921-5107
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3. Achary, P.G.R., Dehury, S.K., Choudhary, R.N.P. Structural, electrical and dielectric properties of double perovskites: BiHoZnZrO₆ and BiHoCuTiO₆, Journal of Materials Science: Materials in Electronics Volume 29, Issue 8, 1 April 2018, Pages 6805-6816 ISSN : 0957-4522
4. Dehury, S.K., Achary, P.G.R., Choudhary, R.N.P. Electrical and dielectric properties of bismuth holmium cobalt titanate (BiHoCoTiO₆): a complex double perovskite (Article), Journal of Materials Science: Materials in Electronics, Volume 29, Issue 5, 1 March 2018, Pages 3682-3689, ISSN 0957-4522.
5. Dehury, S.K., Khatua, D., Achary, P.G.R., Choudhary, R.N.P. Dielectric, electrical and impedance study of single perovskite Pb(Ni_{1/3}Mn_{1/3}W_{1/3})O₃, Indian Journal of Physics Volume 93, Issue 7, 1 July 2019, Pages 837-844, ISSN : 0973 – 1458,
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8. Padhy, M., Dehury, S.K., Choudhary, R.N.P., Achary, P.G.R., Structural, dielectric, thermal and electrical characteristics of lead-free double perovskite: BiHoZnCoO₆ Applied Physics A: Materials Science and Processing Volume 126, issue 8, 2020, Article number 655, ISSN 0947-8396,

9. Khatua, D., Dehury, S.K., Parida, S.K., Choudhary, R.N.P., Achary, P.G.R.. Studies of structural, dielectric and electrical characteristics of complex perovskite: $\text{Pb}(\text{Co}_{1/3}\text{Mn}_{1/3}\text{W}_{1/3})\text{O}_3$, Journal of the Mexican Chemical Society Volume 64, issue 2, **2020**, Pages 10-23 , ISSN : 1870-249X,
10. Talukdar, M., Singh, S., Dehury, S.K. A review on conductometric studies of electrolytes in mixed solvent systems to understand ion-ion and ion-solvent interactions. Biointerface Research in Applied Chemistry Volume 10, Issue 2, **2020**, Pages 5332-5337, ISSN: 2069-5837
11. Khatua, D., Dehury, S.K., Parida, S.K., Choudhary, R.N.P., Achary, P.G.R. Studies of structural, dielectric and electrical characteristics of complex perovskite: $\text{Sr}(\text{Ni}_{1/3}\text{Mn}_{1/3}\text{W}_{1/3})\text{O}_3$. Indian Journal of Physics Volume 95, Issue 6, June **2021**, Pages 1147-1155, ISSN: 0973 – 1458.
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13. Talukdar, M., Dhal, K., Dehury, S.K., Investigation on molecular interactions of multicharged electrolytes potassium pyrophosphate and potassium dichromate in aqueous d-sorbitol media at 298.15K by densiometric and acoustic methods. Biointerface Research in Applied Chemistry Volume 11 , Issue 1, **2021**, pages 8075-8086, ISSN : 2069-5837

Dr. Ujwal Sarangi, Assistant Professor of Chemistry

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15. P. Bhyrappa, V.Vilkannan ,**Ujwal Kumar Sarangi** , Crystal structure of unsymmetrically mixed B-Pyrrole substituted Nickel (III) meso-tetra Phenyl Porphyrins. J Chem SC.**2016**,128,1047-1055, ISSN No 0974-3626.

Dr. Braja Bandhu Nanda, Assistant Professor of Chemistry

16. Dayananda Sarangi, Jagannath Panda, Rojalini Sahu, **Braja B. Nanda***. Ultrasonic Studies On Ion-Solvent Interactions of Tetra-N-Butyl ammonium Bromide in Aqueous Solutions of 1, 3-Dioxolane And 2, 2- Dimethoxypropane At T=298.15 To 313.15 K, Asian Journal of

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19. B. Dalai, S. K. Dash, S. K. Singh, **Braja B. Nanda***, Acoustic assessment in binary mixtures of a polar nuclear extractant, DEHPA with eight nonpolar diluents at 303.15K - A comparative study; Biointerface Research in Applied Chemistry, 10(2),5323–5331 (2020) (ISSN:2069-5837 <https://doi.org/10.33263/BRIAC102.323331>, IF= 0.89
20. Muchipali Sailaja, Dayananda Sarangi, Priyaranjan Mohapatra, **Braja B. Nanda***, Ultrasonic studies on the temperature dependence of ion solvent interactions of ionic liquid 1-Butyl-2,3-dimethyl imidazolium chloride in aqueous solutions of Tetra-n-butylammonium bromide at T = (298.15 to 313.15) K, Biointerface Res. Appl. Chem., 10 (2), 5259 – 5265, (2020), <https://doi.org/10.33263/BRIAC102.259265>, IF=0.89, (ISSN: 2069-5837
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24. Manas Ranjan Pradhan , Dharitri Rath , Ratikanta Sethi, **Braja B. Nanda***, Binita Nanda, α -MnO₂ modified exfoliated porous g-C₃N₄ Nanosheet(2D) for enhanced photocatalytic oxidation efficiency of aromatic alcohols, *Inorganic Chemistry Communications*, 130 (2021) 108717, ISSN 1387-7003, <https://doi.org/10.1016/j.inoche.2021.108717>,
25. Binita Nanda, M. Sailaja, P. Mohapatra, R.K. Pradhan, **Braja B. Nanda***, Green solvents: A suitable alternative for sustainable chemistry, *Materials Today: Proceedings*, 47, (2021)1234-1240. <https://doi.org/10.1016/j.matpr.2021.06.458>, ISSN 2214-7853, IF=1.24
26. Mamata Pradhan, Binita Nanda, Prativa Kar, **Braja B. Nanda***, Intermolecular Interactions of Anti-Tuberculosis Drugs with Different Solvents: A Review, *Biointerface Research in Applied Chemistry*, 12, Issue 1, (2022), 883 – 892, <https://doi.org/10.33263/BRIAC121.883892>, ISSN: 2069-5837
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29. Sudhansu Sekhar Pattnaik, Binita, Sirish Ranjan Panda, Biswajit Dalai, **Braja B. Nanda**. Investigation of the inter-ionic interactions of an imidazolium-based ionic liquid with the aqueous solutions of tripotassium citrate and trisodium citrate through volumetric, acoustic, and, FTIR routes, *Journal of Molecular Liquids*, 351 (2022) 118644, <https://doi.org/10.1016/j.molliq.2022.118644>, IF=6.17
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Dr Pragyan Paramita Nayak, Assistant Professor of Zoology

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13.	Industrialization and Environmental Disaster: Strategies for Environmental Sustainability in Sagarika Mishra and Aditya K Mishra (ed.) <i>Industrialization and Environmental Sustainability</i> (pp. 45-60)	2021	978-9390692163	New Delhi: Mittal Publications
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16.	Contemporary Gender Discourse: Setting the Tone (with Aditya K Mishra) in Aditya K Mishra and Sagarika Mishra (ed.) <i>Contemporary Gender Discourse: Issues and Contestations</i> (pp.01-07)	2019	ISBN 978-81-9375-139-8	New Delhi: SSDN Publishers and Distributors
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