

PHYSICAL, CHEMICAL & BIOLOGICAL SCIENCES AND MATHEMATICS

Research Papers, Articles & Books:

1. Shyamaprosad Goswami, Sibaprasad Maity, Annada C Maity, Avijit kumar Das, BholanathPakhira, Kalyani Khanra, **Nandan Bhattacharyya**, Sabyasachi Sarkar (2015), *ESIPT based Hg²⁺ and fluoride chemosensor for sensitive and selective 'turn on' red signal and cancer cell imaging*, RSC Advances, 5, 5735-5740. IF:3.84.
2. Shyamaprosad Goswami, Avijit Kumar Das, Urmila Saha, Sibaprasad Maity, KalyaniKhanra, and **Nandan Bhattacharyya** (2015), *Rapid detection of hydrazine in naphthol-fused chromenyl loop and its effectiveness in human lung cancer cells: tuning remarkable selectivity via reaction altered pathway supported by theoretical studies*, Organic & Biomolecular Chemistry, 13, 2134-2139. IF:3.562.
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4. **Khanra, K.**, Choudhuri, I., Panja, S., **Bhattacharyya, N.** (2015): *Isolation and identification of an amylase producing trace tolerance bacteria from industrial waste of Haldia, an industrial town of India*, International Journal of Research Studies in Biosciences 3(10): 1-7.
5. **Kalyani Khanra**, Sudipta Panja, Indranil Choudhuri, Anindita Chakraborty, **Nandan Bhattacharyya** (2015): *Evaluation of antibacterial activity and cytotoxicity of green synthesized silver nanoparticles using Scopariadulcis*, Nano Biomed Eng 7(3): 128-133.ISSN 2150-5578.
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9. Shyamaprosad Goswami, Avijit kumar Das, Gorachand Dutta, Sibaprasad Maity, Tarun Kanti Mandal, **Kalyani Khanra**, **Nandan Bhattacharyya**: *Concentration dependent auto-relay-recognition by same analyte: Dual fluorescence switch-on by hydrogen sulfide via Michael addition followed by reduction and staining bio-activity* (2015), *Organic & Biomolecular Chemistry*, DOI: 10.1039/C5OB02008E. Impact Factor: 3.562.
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11. *Valence Tautomerism induced nucleophilic ipso substitution in a coordinated tetrabromocatecholate ligand and diverse catalytic activity mimicking the function of phenoxazinone synthase*, **A. Panja**,* N. C. Jana, M. Patra, P. Brandão, C. E. Moore, D. M. Eichhorn and A. Frontera, *J. Mol. Cat A.*, 2016, 412, 56–66.
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14. *Domino Suzuki coupling and condensation reaction: an efficient strategy towards synthesis of phenanthridines*, Munmun Ghosh, Atiur Ahmed, **Raju Singha**, Jayanta K. Ray, *Tetrahedron Letters*, 2015, 56, 353. Publisher: Elsevier. ISSN: 0040-4039. Impact Factor: 2.379.
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20. *Valence Tautomerism induced nucleophilic ipso substitution in a coordinated tetrabromocatecholate ligand and diverse catalytic activity mimicking the function of phenoxazinone synthase*, **A. Panja**,* N. C. Jana, **M. Patra**, P. Brandão, C. E. Moore, D. M. Eichhorn and A. Frontera, J. Mol. Cat A., 2016, 412, 56–66.
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31. **Abhijit Kar Gupta** and Sourabh Banerjee, *Parrondo's Paradox: New Results and New Ideas, Research Journal of Recent Sciences, Vol.5 (ISC-2015), 8-12 (2016) [ISCA, 2016]*
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33. **S.K. Giri**, B. Sen, A. Pathak, P.C. Jana, *Higher order two-mode and multimode entanglement in Raman processes, Phys. Rev. A 93 012340 (2016)*
34. T. Ghosh, **B. Samanta**, P. Ganguly, P. C. Jana, *Journal of Applied Physics,* vol.117 (2015).

HUMANITIES, EDUCATION and TRAINING:

Books & Articles:

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2. সমাজ রূপান্ত্রে রাঢ় বাংলাঃ তারাশংকর – মহাশ্বেতা দেবী, শ্রীজন, কোলকাতা, ISBN 978-93-80755-58-8, 2015, Dr. Keya Samanta
3. সাহিত্যিক পূর্ণেন্দু, অক্ষর প্রকাশনী, কোলকাতা, ISBN 9879382-041368, 2015, Dr. Monoj Pramanik
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11. **Dutta, A.** and Adak, A. K. (2015) Constructivism in Teacher Education, pp 280-284, In: Dr. Dutta, T. (Ed.): Constructivism in Education, pp 308, Kumud Publication, Delhi, ISBN. 978-93-82885-21-4
12. **Jana, Sibasis.** *“Enlightening Earth consciousness and affirming Self-Realisation : A comparative Deep Ecological study of Sri Aurobindo and Jayanta Mahapatra’s poetry.* Pp—111-124. Published in edited book *“Indian Literatures in English. New Directions, Newer possibilities . ed. by K.V. Dominic & Mahboobeh Khaleghi. Authorspress. 2015. New Delhi. ISBN—978-81-7273-986-7*
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15. **Sugata Sen**, *Social Exclusion from Development Programmes: A Study on Different Castes of West Bengal*, in book 'Analytical Economics: A research Journey' ed: prof. Subikash Mukherjee, ISBN: 978-81-924660-8-8, Refle & 2015: Kolkata.
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