

List of Publications

Journals:

- [1] **Saikia, P.**, Nath, J., Dolui, S. K., and Mahanta, S. P. Cesium Lead Bromide as a colorimetric and fluorometric sensing platform for selective detection of Uric Acid. *New Journal of Chemistry*, 2023 (just accepted, DOI: 10.1039/D3NJ00202K).
(https://mjl.clarivate.com:/search-results?issn=1144-0546&hide_exact_match_fl=true&utm_source=mjl&utm_medium=share-by-link&utm_campaign=search-results-share-this-journal)
- [2] **Saikia, P.**, Dolui, S. K., and Mahanta, S. P. CsPbBr₃ Perovskites: A dual Fluorescence sensor to distinguish ethanol from methanol. *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, 291(122309):128, 2023.
(https://mjl.clarivate.com:/search-results?issn=1386-1425&hide_exact_match_fl=true&utm_source=mjl&utm_medium=share-by-link&utm_campaign=search-results-share-this-journal)
- [3] **Saikia, P.**, Sarmah, H. J., Ahmed, S., Lahkar, S., Das, J. P., and Dolui, S. K. Synthesis of Ca_xCu_{3-x}Ti₄O₁₂ Perovskite Materials and House-Hold LED Light Mediated Degradation of Rhodamine Blue Dye. *Journal of Inorganic and Organometallic Polymers and Materials*, 31:2161-2167, 2021.
(https://mjl.clarivate.com:/search-results?issn=1574-1443&hide_exact_match_fl=true&utm_source=mjl&utm_medium=share-by-link&utm_campaign=search-results-share-this-journal)
- [4] Nath, J., Ahmed, A., **Saikia, P.**, Chowdhury, A., and Dolui, S. K. Acrylic acid grafted gelatin/LDH based biocompatible hydrogel with pH-controllable release of vitamin B12. *Applied Clay Science*, 190(105569):1-10, 2020.
(https://mjl.clarivate.com:/search-results?issn=0169-1317&hide_exact_match_fl=true&utm_source=mjl&utm_medium=share-by-link&utm_campaign=search-results-share-this-journal)
- [5] Lahkar, S., Ahmed, S., Mohan, K., **Saikia, P.**, Das, J. P., Puzari, P., and Dolui, S. K. Iron doped titania/multiwalled carbon nanotube nanocomposite: A robust

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electrocatalyst for hydrogen evolution reaction in aqueous acidic medium. *Electrochimica Acta*, 407(139921): 1-10, 2022.

(https://mjl.clarivate.com:/search-results?issn=0001-5164&hide_exact_match_fl=true&utm_source=mjl&utm_medium=share-by-link&utm_campaign=search-results-share-this-journal)

- [6] Doley, S., Bora, A., **Saikia, P.**, Ahmed, S., and Dolui, S. K. Blending of cyclic carbonate based on soybean oil and glycerol: a non-isocyanate approach towards the synthesis of polyurethane with high performance. *Journal of Polymer Research*, 28:1-9, 2021.

(https://mjl.clarivate.com:/search-results?issn=1022-9760&hide_exact_match_fl=true&utm_source=mjl&utm_medium=share-by-link&utm_campaign=search-results-share-this-journal)

- [7] Goswami, B. R., Das, D., **Saikia, P.**, and Dutta, R. K. Role of saponins on enhancement of quality of Mahī, a traditional herbal ink of early Assam. *Dyes and Pigments*, 188(109234): 1-9, 2021.

(https://mjl.clarivate.com:/search-results?issn=0143-7208&hide_exact_match_fl=true&utm_source=mjl&utm_medium=share-by-link&utm_campaign=search-results-share-this-journal)

- [8] Ahmed, S., Lahkar, S., **Saikia, P.**, Mohanta, D., Das, J., and Dolui, S. K. Stable and highly luminescent CsPbX₃ (X= Br, Br/Cl) perovskite quantum dot embedded into Zinc(II) imidazole-4, 5-dicarboxylate metal-organic framework as a luminescent probe for metal ion detection. *Materials Chemistry and Physics*, 295(127093):1-17, 2023.

(https://mjl.clarivate.com:/search-results?issn=0254-0584&hide_exact_match_fl=true&utm_source=mjl&utm_medium=share-by-link&utm_campaign=search-results-share-this-journal)

Book Chapter:

- [1] **Saikia, P.** A brief discussion of Bio-based Polymers: Its progress towards Sustainable Applications. In Narzary, A., Begum, P. and Bhagawati, C., editors, *Environment: Climate Change and Natural Challenges*, pages 94-105, ISBN: 978-93-90919-60-4. Gargaon College Publication Cell & Purbayon Publication, 2021.

List of Conferences

As Abstract

Oral Presentation:

- [1] **Saikia P.** and Dolui, S. K. *Calcium Copper Titanate (CCTO) an efficient Perovskite-based Photocatalyst*. National Seminar on Science for Sustainable Development (SSD-2020), Organized by the Department of Chemistry, B. Borooah College, Guwahati, 25th-26th September 2020.
- [2] **Saikia P.** and Dolui, S.K. *Calcium Copper Titanate (CCTO) an efficient Perovskite-based Photocatalyst*. Organized by Department of Chemical Sciences, Tezpur University, Tezpur 4th-5th March 2021.

Poster Presentation:

- [1] **Saikia, P.** and Dolui, S. K. *Studies on Cesium Lead Iodide based Perovskite Solar cell*. International Conference on Advancement of Science and Technology (ICAST-2018), organized by Visva-Bharati University, Shantiniketan, Kolkata, 3rd-4th September 2018.
- [2] **Saikia, P.** and Dolui, S. K. *Calcium Copper Titanate a highly efficient perovskite-based photocatalyst for degradation of Organic Waste*. International Conference on Emerging Trends in Chemical Sciences (ETCS 2020), Organized by the Department of Chemistry, Gauhati University, Guwahati, 13th-15th February 2020.