

## List of Publication

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### A. In Refereed Journal

1. **Devalina Sarmah** and Ashok Kumar. Layer-by-layer self-assembly of ternary MoS<sub>2</sub>-rGO @PPyNTs nanocomposites for high performance supercapacitor electrode. *Synthetic Metals*, 24375-89, 2018. doi.org/10.1016/j.synthmet.2018.06.001.
2. **Devalina Sarmah** and Ashok Kumar. Ion beam modified molybdenum disulfide-reduced graphene oxide/polypyrrole nanotubes ternary nanocomposite for hybrid supercapacitor electrode, *Electrochimica Acta*, 312, 392-410, 2019. doi.org/10.1016/j.electacta.2019.04.174.
3. **Devalina Sarmah** and Ashok Kumar. Symmetric Supercapacitors with layer-by-layer Molybdenum disulfide-reduced graphene oxide structures and poly(3,4-ethylenedioxythiophene) nanoparticles nanohybrid electrode, *Journal of Energy Storage*, 35, 102289, 2021. doi.org/10.1016/j.est.2021.102289.
4. **Devalina Sarmah** and Shyamal K. Das. Elucidating the Al<sup>3+</sup> ion electrochemical behavior of LiFePO<sub>4</sub>, *Bulletin of Materials Science*, 46, 1 (2023): 43. <https://doi.org/10.1007/s12034-022-02877-0>.
5. **Devalina Sarmah**, Tridib K. Goswami and Shyamal K. Das, A curious case of electrochemical exfoliation of MAX phase (Ti<sub>3</sub>AlC<sub>2</sub>) and unusual Al<sup>3+</sup> ion storage behavior, *Bulletin of Materials Science* (review submitted).
6. Aditi Saikia, **Devalina Sarmah**, Ashok Kumar, and Niranjan Karak. Bio-based epoxy/polyaniline nanofiber-carbon dot nanocomposites as advanced anticorrosive materials, *Journal of Applied Polymer Science*, 47744, 2019. doi.org/10.1002/app.47744.
7. Kashmiri Baruah, **Devalina Sarmah**, and Ashok Kumar. Graphitic carbon nitride - reduced graphene oxide heterostructures and polypyrrole nanotubes based nanocomposites for hybrid supercapacitor electrodes, *Ionics*, 27(7), 3153-3168, 2021. doi.org/10.1007/s11581-021-04069-y.

## **B. Paper presented in conferences**

1. **Devalina Sarmah** and Ashok Kumar, XI Biennial National Conference of Physics Academy of North East (Pane), Assam University, Diphu campus, Assam, India, November 21-23, 2018.
2. **Devalina Sarmah** and Ashok Kumar, Second National Conference on Hard and Soft Condensed Matter Physics (NCHSCMP), Tezpur University, Assam, India, March 4-6, 2019.
3. **Devalina Sarmah** and Ashok Kumar, International conference on Renewable and Alternate Energy (ICREA), Assam Science and technology University, Guwahati, India, December 4-6, 2018.
4. **Devalina Sarmah** and Ashok Kumar, International conference on emerging trends in chemical sciences, Dibrugarh University, Assam, India, February 26-28, 2018.
5. **Devalina Sarmah** and Shyamal K Das, National level seminar organized by department of physics in association with inSCIgnis, 22, Tezpur University, Assam, India, March 1, 2022.