1. Alinda Shaly, G. Hannah Priya, M. Mahendiran, **J. Mary Linet**, A behavioural study of hydrothermally derived novel alumina /magnesia/ hydroxyapatite (Al2O3/MgO/HA) bioceramic nanocomposite, **Journal of the Mechanical Behavior of Biomedical Materials.** 133 (2022).
2. Alinda Shaly, G. Hannah Priya, A. Matharasi, A. Surya Prabha, **J. Mary Linet,** The nature and role of α-MnO2 nanowires in the photocatalytic degradation of the antibiotic tetracycline, in: **Materials Today: Proceedings**, 2022: pp. 282–286.
3. S. Anitha, P.S. Latha Mageshwari, R. Priya, R. Ragu, **S. Jerome Das,** Prospective theoretical investigations of optical, dielectric, mechanical and third-order NLO property in potassium tri-hydrogen di-succinate single crystal, **Chinese Journal of Physics**. 76 (2022) 145–171.
4. S. Anitha, R. Priya, P.S.L. Mageshwari, **S.J. Das**, Growth, optical, dielectric and mechanical studies in ferroelectric bis(methyl ammonium) tetrachlorocadmate single crystal, **Ferroelectrics**. 600 (2022) 212–234.
5. V. Anto Feradrick Samson, S. Bharathi Bernadsha, J. Fennyl Britto, **M. Victor Antony Raj**, J. Madhavan, Synthesis of rGO/NiFe2O4 nanocomposite as an alternative counter electrode material to fabricate Pt-free efficient dye sensitized solar cells, **Diamond and Related Materials**. 130 (2022).

6. Aslinjensipriya, R.S. Reena, R. Ragu, S.G. Infantiya, G. Mangalam, C.J. Raj, **S.J. Das**, Exploring the influence of tin in micro-structural, magneto-optical and antimicrobial traits of nickel oxide nanoparticles, **Surfaces and Interfaces**. 28 (2022).
7. Aslinjensipriya, R. Sylvia Reena, S. Grace Infantiya, N.J. Johbi, J.P. Angelena, **S. Jerome Das**, Uncovering the consequences of Ag1+ on nano-structural, magneto-optical, antibacterial, and antifungal response of nickel oxide particles, in: **Materials Today: Proceedings**, 2022: pp. 549–555.
8. S.B. Bernadsha, V.A.F. Samson, N.J. Simi, **J. Madhavan, M.V.A. Raj**, Analyzing the efficiency of nanostructured Sm3+- and Gd3+-doped TiO2 and constructing DSSCs using efficacious photoanodes, **Journal of Materials Science: Materials in Electronics**. 33 (2022) 6446–6455.
9. J.F. Britto, V.A.F. Samson, S.B. Bernadsha, **J. Madhavan, M.V.A. Raj**, Synthesis of rNiCo Nanocomposite - As an Electrode Material for Supercapacitor Applications, **Journal of Inorganic and Organometallic Polymers and Materials**. 32 (2022) 4601–4613.
10. S. Divya, S.C. Lims, M. Manivannan, R. Robert, **S. Jerome Das**, M. Jose, Impact of amorphous SiO2 as shell material on superparamagnetic Fe3O4 nanoparticles and investigation of temperature and frequency dependent dielectric properties, **Journal of Alloys and Compounds**. 919 (2022).

11. Emima Jeronsia, R. Ragu, A. Jerline Mary, **S. Jerome Das**, Elucidating the structural, anticancer, and antibacterial traits of Punica granatum peel extracts-mediated Ag and Ag/GO nanocomposites, **Microscopy Research and Technique**. 85 (2022) 44–55.

12. S.G. Infantiya, A. Aslinjensipriya, R.S. Reena, S. Deepapriya, J.D. Rodney, **S.J. Das**, C.J. Raj, Calcium copper titanate a perovskite oxide structure: effect of fabrication techniques and doping on electrical properties—a review, **Journal of Materials Science: Materials in Electronics.** 33 (2022) 15992–16028.

13. S.A. Jacob, R. Ragu, M.M. Jaculine, A. Daisy, **S.J. Das**, Exploring the consequences of lanthanum incorporation on micro-structural, nanoscale morphological and magnetic traits on manganese dioxide nanoparticles, **Journal of Materials Science: Materials in Electronics**. 33 (2022) 6856–6871.

14. P. Joselene Suzan Jennifer, S. Muthupandi, M. Joe Raja Ruban, C. Johxy, **J. Madhavan,** S. Prathap, **M. Victor Antony Raj,** Temperature-Dependent supercapacitive behaviour of Cobalt oxide (Co3O4) nanospheres under electrolytes with different pH, **Inorganic Chemistry Communications**. 144 (2022).

15. M. Mahendiran, A. Matharasi, A. AlindaShaly, G. Hannah Priya, **J. Mary Linet,** T. Arokiya Mary, Controllable synthesis of surfactants (PEG and SDS) assisted Copper Selenide Nanoparticles by hydrothermal method for

photocatalytic activity, in: **Materials Today: Proceedings**, 2022: pp. 341–346.

16. M. Mahendiran, J.J. Mathen, S. Bharathi Bernadsha, K. Mohamed Racik, **J. Madhavan,** M. Joe Raja Ruban, **M. Victor Antony Raj**, Aqueous Adulterants Removal by Photocatalysis CdO/CuO Metal Oxide Nanocomposite, **UPB Scientific Bulletin, Series B: Chemistry and Materials Science**. 84 (2022) 55–66.
17. J. Reena Priya, M. Mercina, M.P. Nancy, **J. Mary Linet, J. Arul Martin Mani**, Synthesis and Characterization of Rhodamine B and Methylene Blue doped Potassium Hydrogen Phthalate Single Crystals, in: Materials Today: Proceedings, 2022: pp. 385–390.
18. J.D. Rodney, S. Deepapriya, **S.J. Das**, M.C. Robinson, S. Perumal, S. Katlakunta, P. Sivakumar, H. Jung, C.J. Raj, Boosting overall electrochemical water splitting via rare earth doped cupric oxide nanoparticles obtained by co-precipitation technique, Journal of Alloys and Compounds. 921 (2022).
19. V.A.F. Samson, S.B. Bernadsha, A.J.P. Paul Winston, D. Divya, J. Abraham, **M.V.A. Raj, J. Madhavan,** rGO Sheets/ZnFe2O4 Nanocomposities as an Efficient Electro Catalyst Material for I3−/I− Reaction for High Performance DSSCs, Journal of Inorganic and Organometallic Polymers and Materials. 32 (2022) 1183–1189.

20. Sharon Tamil Selvi, G. Hannah Priya, R. Ragu, D. Ancelia, L. Allwin Joseph, **J. Mary Linet**, Exploring the Outcomes of Sulphur Sources on ZnO/CdS Nanocomposites Towards Photocatalytic Degradation of Mordant Black 11 Dye, Journal of Cluster Science. 33 (2022) 375–386.
21. R. Sylvia Reena, A. Aslinjensipriya, S. Grace Infantiya, J. Daniel John Britto, M. Jose, **S. Jerome Das,** Visible- light active zinc doped cobalt oxide (Zn-Co3O4) nanoparticles for photocatalytic and photochemical activity, in: Materials Today: Proceedings, 2022: pp. 269–275.
22. M. Thirunavukkarasu, G. Balaji, S. Muthu, S. Sakthivel, **P. Prabakaran**, A. Irfan, Theoretical conformations studies on 2-Acetyl-gamma-butyrolactone structure and stability in aqueous phase and the solvation effects on electronic properties by quantum computational methods, **Computational and Theoretical Chemistry**. 1208 (2022).