1. Effect of Porous Nature of Anode on the Performance of the Soluble Lead Redox Flow Battery: A Modelling and Simulation Study, M Nandanwar, ***Journal of Power Sources*** 571, 233029, IF 9.8

2. Insights into the Morphological Evolution of Mossy Dendrites in Lithium Metal Symmetric and Full Cell: A Modelling Study, P Verma, S Puravankara, MN Nandanwar, J Chakraborty**, *Journal of The Electrochemical Society*** 170 (3), 030529, IF 4.5

3. Pump-less, free-convection-driven redox flow batteries: Modelling, simulation, and experimental demonstration for the soluble lead redox flow battery, Mahendra N. Nandanwar, Kottu Santosh Kumar, S.S. Srinivas, D.M. Dinesh, ***Journal of Power Sources,*** Volume 454, 2020, 227918, IF: 9.8

4. Numerical modelling and simultion of heat sink assisted thermal sintering of titania film on polymer substrate for fabrication of high performance flexible dye sensitized solar cell, KG Baiju, MN Nandanwar, K Jayanarayanan, D Kumaresan, ***Chemical Engineering Research and Design,*** 181, 209-219, 2022, IF 4.339

5. A modelling and simulation study of soluble lead redox flow battery: Effect of presence of free convection on the battery characteristics, Mahendra Nandanwar, Sanjeev Kumar, ***Journal of Power Sources,*** Volume 412, 2019, Pages 536-544, IF: 9.8

6. Charge coup de fouet phenomenon in soluble lead redox flow battery, Mahendra Nandanwar, Sanjeev Kumar, ***Chemical Engineering Science,*** Volume 154, 2016, Pages 61-71, IF: 4.311

7. Modelling of Effect of Non-Uniform Current Density on the Performance of Soluble Lead Redox Flow Batteries, Nandanwar, Mahendra, Kumar Sanjeev, ***Journal of The Electrochemical Society***, 2014, A1602-A1610, 10, 161, IF: 4.314

8. A new discretization of space for the solution of multi-dimensional population balance equations: Simultaneous breakup and aggregation of particles, Mahendra N. Nandanwar, Sanjeev Kumar***, Chemical Engineering Science,*** Volume 63, Issue 15, 2008, Pages 3988-3997. IF: 4.311

9. A new discretization of space for the solution of multi-dimensional population balance equations, Mahendra N. Nandanwar, Sanjeev Kumar, ***Chemical Engineering Science,*** Volume 63, Issue 8, 2008, Pages 2198-2210. IF: 4.311