Dr.A.SAKUNTHALAASSISTANT PROFESSOR
DEPARTMENT OF PHYSICS
KARUNYA INSTITUTE OF TECHNOLOGY AND SCIENCES
COIMBATORE.

List of Publications during last five years:

Number of Research Publications: 39 (Highest Impact factor: **33.250, Energy and Environmental Sceinces**)

S.No.	Author(s) *corresponding author	Title	Name of Journal	Volum e	Page	Year
1.	M. Sasikumar, Mahadevaiah Dasaiah, G.Hiran Kumar, Sakunthala	PVA/PAM/NH4SCN	Ionics Imapact Factor:2.354	Just Accepted and submitted after proof correction, 2020		
2.	G Ravi, V Ganesh,	Electrode for Energy	Journal of nanoscience and nanotechnology Impact Factor:1.354 DOI: https://doi.org/10.116 6/jnn.2020.17187	20	96- 105	2020

3.	Pavithra Shanmugaraj, Ashwini Swaminathan, Ranjith Kumar Ravi, Mahadevaiah Dasaiah, P. Senthil Kumar A. Sakunthala*		Journal of Material science: Materials in Electronics Impact Factor:2.19 DOI: https://doi.org/10.101 6/j.solidstatesciences. 2019.105939	30	20079 - 20087	2019
4.	Manjula R. Shenoy, Sakunthala Ayyasamy*, Mogalahalli Venkatesh Reddy Venkatashamy Reddy, Kadarkarai Govindan, T. Saravanakumar, T. Selvaraju, Arout Chelvan Jeyaramane, Stefan Adams	Preparation and characterization of porous iron oxide dendrites for photocatalytic application	Solid State Sciences Impact Factor:2.15 DOI: https://doi.org/10.101 6/j.solidstatesciences. 2019.105939	95	1293- 2558	2019
5.	A Banu, A Sakunthala, M Thamilselvan, P Senthil Kumar, K Suresh, S Ashwini	Preparation, characterization and comparative electrochemical studies of MgM _X Mn ₂₋ _x O ₄ (x=0, 0.5; M= Ni/Co)	Ceramics International Impact Factor:3.450 DOI: https://doi.org/10.1016/j.ceramint.2019.03.	45	13072 - 13085	2019
6.	B Saravanakumar, G Ravi, V Ganesh, S Ravichandran, A Sakunthala, R Yuvakkumar	Low Surface Energy and pH Effect on SnO ₂ Nanoparticles Formation for Supercapacitor Applications	Journal of nanoscience and nanotechnology Impact Factor:1.354 DOI: https://doi.org/10.116 6/jnn.2019.16098	19	3429- 3436	2019
7.	B Saravanakumar, G Ravi, R Yuvakkumar, V Ganesh, S Ravichandran, M Thambidurai, A Sakunthala	Hydrothermal synthesis and electrochemical properties of ZnCo ₂ O ₄ microsphere s	Ionics Impact Factor:2.354 DOI: https://doi.org/10.100 7/s11581-018-2766-1	25	353- 360	2019

8.	B Saravanakumar, SP Ramachandran, G Ravi, V Ganesh, A Sakunthala, R Yuvakkumar	Transition mixed- metal molybdates (MnMoO ₄) as an electrode for energy storage applications	Applied Physics A Impact Factor:1.784 DOI: https://doi.org/10.100 7/s00339-018-2309-7	125	5-11	2019
9.	B Jansi Rani, G Ravi, R Yuvakkumar, V Ganesh, S Ravichandran, M Thambidurai, AP Rajalakshmi, A Sakunthala	Pure and cobalt- substituted zinc-ferrite magnetic ceramics for supercapacitor applications	Applied Physics A Impact Factor:1.784 DOI: https://doi.org/10.100 7/s00339-018-1936-3	124	511	2018
10.	P Senthil Kumar, A Sakunthala*, MV Reddy, Moni Prabu	Structural, morphological, electrical and electrochemical study on plasticized PVdF- HFP/PEMA blended polymer electrolyte for lithium polymer battery application	Solid State Ionics Impact Factor:2.886 DOI: https://doi.org/10.101 6/j.ssi.2018.02.022	319	256- 265	2018
11.	B Jansi Rani, B Saravanakumar, G Ravi, V Ganesh, A Sakunthala*, R Yuvakkumar	Structural, Optical and Magnetic Properties of NiO Nanopowders	Journal of nanoscience and nanotechnology Impact Factor:1.354 DOI: https://doi.org/10.116 6/jnn.2018.15301	18	4658- 4666	2018
12.	T Priyadharshini, B Saravanakumar, G Ravi, A Sakunthala, R Yuvakkumar	Hexamine Role on Pseudocapacitive Behaviour of Cobalt Oxide (Co ₃ O ₄) Nanopowders	Journal of nanoscience and nanotechnology Impact Factor:1.354 DOI: https://doi.org/10.116 6/jnn.2018.15011	18	4093- 4099	2018
13.	P Senthil Kumar, Sakunthala Ayyasamy*, Eng Soon Tok Stefan Adams MV Reddy	Impact of Electrical Conductivity on the Electrochemical Performances of Layered Structure Lithium Trivanadate (LiV _{3-x} M _x O ₈ , M= Zn/Co/Fe/Sn/Ti/Zr/Nb/Mo, $x = 0.01-0.1$) as Cathode Materials for Energy Storage	ACS omega Impact Factor:2.584 DOI: https://doi.org/10.102 1/acsomega.7b01904	3	3036- 3044	2018

14.	B Saravanakumar, B Jansi Rani, G Ravi, A Sakunthala, R Yuvakkumar	Influence of reducing agent concentration on the structure, morphology and ferromagnetic properties of hematite (α-Fe2O3) nanoparticles	Journal of Materials Science: Materials in ElectronicsImpact Factor: 2.195 DOI: https://doi.org/10.100 7/s10854-017-6515-4	28	8093- 8100	2017
15.	P Senthil Kumar, A Sakunthala*, R Prasada Rao, S Adams, BVR Chowdari, MV Reddy	Layered Li 1+ x (Ni 0.33 Co 0.33 Mn 0.33) O 2 cathode material prepared by microwave assisted solvothermal method for lithium ion batteries	Materials Research BulletinImpact Factor:3.355 DOI: 10.1016/J.MAT ERRESBULL.2017.0 5.035	93	381- 390	2017
16.	B Saravanakumar, S Muthu Lakshmi, G Ravi, V Ganesh, A Sakunthala, R Yuvakkumar	Electrochemical properties of rice-like copper manganese oxide (CuMn 2 O 4) nanoparticles for pseudocapacitor applications	Journal of Alloys and CompoundsImpact Factor:3.799 DOI: https://doi.org/10.101 6/j.jallcom.2017.06.24 9	723		2017
17.	SP Ramachandran, B Saravanakumar, V Ganesh, G Ravi, A Sakunthala, R Yuvakkumar	Hexamine, PEG-400 effect on α-MoO3 nanoparticle synthesis for pseudo capacitance applications	Journal of Materials Science: Materials in Electronics Impact Factor: 2.195 DOI: https://doi.org/10.100 7/s10854-017-7223-9	28	13780 - 13786	2017
18.	B. Saravanakumar, S. Muthulakshmi, G. Ravi, V. Ganesh, A. Sakunthala R. Yuvakkumar	Surfactant effect on synthesis and electrochemical properties of nickeldoped magnesium oxide (Ni–MgO) for supercapacitor applications	Applied Physics A Impact Factor:1.78 DOI: https://doi.org/10.100 7/s00339-017-1293-7	697		2017
19.	P Senthil Kumar, A Sakunthala*, MV Reddy, BVR Chowdari	Preparation and characterization of LiNi _{0. 495} M _{0. 01} Mn _{0. 495} O ₂ (M= Zn, Co, and Y) for lithium ion batteries	Ionics Impact Factor:2.354 DOI: https://doi.org/10.100 7/s11581-017-2110-1	23	3013- 3022	2017

20.	Saravanakumara.S. P.Ramachandrana G.Ravi, V.Ganesh, A.Sakunthala , R.Yuvakkumar	Morphology dependent electrochemical capacitor performance of NiMoO4 nanoparticles	Materials Letters Impact Factor: DOI: 3.019 https://doi.org/10.101 6/j.matlet.2017.07.095	209	1-4	2017
21.	B. Saravanakumar, T. Priyadharshini, G. Ravi, V. Ganesh, A. Sakunthala R. Yuvakkumar	Hydrothermal synthesis of spherical NiCO2O4 nanoparticles as a positive electrode for pseudocapacitor applications	Journal of Sol-Gel Science and Technology Impact Factor:1.986 DOI: https://doi.org/10.100 7/s10971-017-4504-y	84	297- 305	2017
22.	P Senthil Kumar, A Sakunthala*, MV Reddy, S Shanmugam, M Prabu	Correlation between the structural, electrical and electrochemical performance of layered Li (Ni0. 33Co0.33Mn0.33)O2 for lithium ion battery	Journal of Solid State Electrochemistry	20	1865- 1876	2016
23.	P Senthil Kumar, A Sakunthala*, K Govindan, MV Reddy, M Prabu	Single crystalline TiO 2 nanorods as effective fillers for lithium ion conducting PVdF-HFP based composite polymer electrolytes	Pactor: 3.049	6	91711 - 91719	2016