

Faculty Publications in Referred National / International Journals (in last 5 years)

Name of the faculty with Co-Authors	Title of the Paper	Title of the Journal	Int./ Nat.	Vol. No., IssueNo., PageNo., Month & Year	Impact Factor
B. Karthikeyana, K. Sakthiraj and P. Senthilkumar	Investigation of Indium Trihydride Molecule and Its Clusters Using Density Functional Theory for Semiconductor Application	ActaPhysicaPolonica A	International	139(1) 2021 14-19	0.577
PradeepaVaradharajaperumal, SujathaMuthusamy, <b>ShanthiMuthusamy</b> and SankareswariMahalingam	Biosynthesised Drug Loaded Silver Nanoparticles: A Vivid Agent for Drug Delivery for Human Breast Carcinoma	Bio Science Biotechnology Research Communication	International	14(4) 2021 1839-1846	0.90
K. M. Manikandan & A. Yelilarasi	Effect of different dosage of gamma irradiation on quasi-solid-state conducting polymer electrolyte and its application as high performance dye-sensitized solar cells	Radiation Effects and Defects in Solids	International	176 (7-8) (2021) 651-661	1.141
KM Manikandan, ArunagiriYelilarasi, SS Saravanakumar, Raed H. Althomali, Anish Khan, Khamael M.	The Effect of Plasticizers on the PolypyrrolePoly(vinyl alcohol)-Based	Membranes	International	11(10) 791	4.106

Abualnaja, DalalAlhashmialame er& MA Hussein	Conducting Polymer Electrolyte and Its Application in SemiTransparent Dye-Sensitized Solar Cells				
K. Sakthiraj, B. Karthikeyanan	Synthesis and characterization of cerium oxide nanoparticles using  diferent solvents for electrochemical applications	Applied Physics A	Internati onal	126(1) (2020) 52	2.584
B. Balavairavan, S.S. Saravanakumar&K. M.Manikandan	Physicochemical and Structural Properties of Green Biofilms from Poly (Vinyl alcohol)/Nano Coconut Shell Filler	Journal of Natural Fibers	Internati onal	(2020) 2112-2126	2.622
K.M.Manikandan ,A.Yelilarasi, P.Senthamaraikann an, S. S. Saravanakumar, Anish Khan & Abdulla M.Asiri.	Effect of imidazole based polymer blend electrolytes for dye-sensitized solar cells in energy harvesting window glass applications	Chinese Journal of Chemical Engineering	Internati onal	27(11)(2019 ) 2807-2814	
K.M.Manikandan ,A.Yelilarasi, P.Pandaram, P.Senthamaraikann an, S. S. Saravanakumar,Anis h Khan & Abdulla M.Asiri.	The effect of γray-irradiated conducting polymer electrolyte and its application of dye-sensitized solar cells to building window glass system	Journal of Solid State Electrochemist ry	Internati onal	24(2) (2019) 251-261	2.646

K. M. Manikandan, A. Yelilarasi, P. Senthamaraikannan, S. S. Saravanakumar, Anish Khan, Abdullah M. Asiri	A green-nanocomposite film based on poly(vinyl alcohol)/ <i>Eleusinecoraca</i> n <i>a</i> : structural, thermal, and morphological properties	<a href="#">International Journal of Polymer Analysis and Characterization</a>	International	24(3)( 2019) 257-265	1.33
G.Bharathy, P.Raji	Influence of Mg doping in magnetic properties of NiO nanoparticles and its electrical applications	Journal of Materials Science: Materials in Electronics	International	30(7)(2019) 6519-6527	2.324
K. M. Manikandan A. Yelilarasi, P. Senthamaraikannan, S. S. Saravanakumar, Anish Khan, Abdullah M. Asiri	A study on optical limiting properties of Eosin-Y and Eriochrome Black-T dye-doped poly (vinyl alcohol) composite film	<a href="#">International Journal of Polymer Analysis and Characterization</a>	International	24(4)(2019) 326-333	1.33
Sakthiraj, K., M. Hema, and K. Balachandra Kumar	The effect of reaction temperature on the room temperature ferromagnetic property of sol-gel derived tin oxide nanocrystal	Physica B: Condensed Matter	International	538 (2018) 109-115	1.453
P. Tamilselvi, , M. Hema, S. AsathBahadur	Investigation of Nanocomposite Polymer Electrolytes for Lithium Ion	Polymer Science, Series	International	60 (1) (2018) 102–109	0.76

	Batteries				
K. M. Manikandan, A. Yelilarasi, P. Sentharamaikkannan, S. S. Saravanakumar, Anish Khan, Abdullah M. Asiri	The conducting polymer electrolyte based on polypyrrole-polyvinyl alcohol and its application in low-cost quasi-solid-state dye-sensitized solar cells	Journal of Solid State Electrochemistry	International	22, (12) 2018 3785–3797	2.509
G.Bharathy, P.Raji	Pseudocapacitance of Co doped NiO nanoparticles and its room temperature ferromagnetic behavior	Physica B: Condensed matter	International	530 (2018) 75-81	1.453
M.Ramachandran, M. Shanthi, R. Subadevi, , M. Sivakumar	Role of surfactant on synthesis and characterization of cerium oxide (CeO <sub>2</sub> ) nanoparticles by modified co-precipitation method	International Journal of Advance Engineering and Development	International	4 (2017) 31-35	0.7
M.Hema, P.Tamilselvi, G.Hirankumar	Influences of LiCF <sub>3</sub> SO <sub>3</sub> and TiO <sub>2</sub> nano filler on ionic conductivity and mechanical properties of PVA:PVdF blend polymer electrolyte	Ionic	International	23 (10) (2017) 2707-2714	2.119
M.Hema, P.Tamilselvi, P.Pandaram	Conductivity enhancement in SiO <sub>2</sub> doped	Nuclear Instruments and Methods in	International	403 ( 2017) 13-20	1.389

	PVA:PVdFnano composite polymer electrolyte by gamma ray irradiation	Physics Research B			
Sakthiraj K., <u>Hema M.</u> , Balachandra Kumar K	Enhancement of room temperature ferromagnetism in tin oxide nanocrystal using organic solvents	Applied Surface Science,	International	Volume 420, 31 October 2017, Pages 145-153	4.439
G.Bharathy, P.Raji	Room temperature ferromagnetic behavior of Mn doped NiO nanoparticles: a suitable electrode material for supercapacitors	Journal of Materials Science: Materials in Electronics	International	28(23) (2017)17889-17895	2.324
Sakthiraj K., M. Hema, K. Bala Kumar	Enhancement of room temperature ferromagnetism in tin oxide nanocrystal using organic solvent	Applied Surface Science	International	420 (2017) 145-153	4.44
P.Tamilselvi, <u>M.Hema</u>	Structural, Thermal, Vibrational and Electrochemical behavior of lithium ion	Polymer science series A	International	58 (2016) 72-80	0.76

	conducting solid polymer electrolyte based on PVA:PVdF blend				
<u>M.Hema</u> , P.Tamilselvi International	Lithium ion conducting PVA:PVdF polymer electrolytes doped with nanoSiO <sub>2</sub> and TiO <sub>2</sub> filler	Journal of Physics and Chemistry of Solids	International	Vol.96-97 (2016) 42-48	2.048
K. Sakthiraj, <u>M.Hema</u> , K. Balachandrakumar	Room temperature ferromagnetism of tin oxide nanocrystal based on synthesis methods	Physica B: Condensed Matter,	International	487(15) (2016) 47-52	1.45
Sakthiraj, K., M. Hema, and K. Balachandrakumar	Room temperature ferromagnetism of tin oxide nanocrystal based on synthesis methods	Physica B: Condensed Matter	International	487 (2016) 47-52	1.45
A Jancirani, V Kokila, B Meenarathi, A Yelilarasi, R Anbarasan	<a href="#">Synthesis, characterisation and non-isothermal degradation kinetics of novel poly (mono ethylene glycol dimethacrylate-</a>	Bulletin of Materials Science	International	39, (7) (2016) 1725–1733	0.87

	<a href="#">co-4-aminobenzoate</a> )				
Chithra M Mathew, M Shanthi, S Rajendran	Thermal and impedance studies of poly(vinylidene chloride-co-acrylonitrile)-based gel polymer electrolyte	Journal of Thermoplastic Composite Materials	International	1124-1134, 2015/8	1.134
Sakthiraj, K., and K. Balachandrakumar	Influence of Ti addition on the room temperature ferromagnetism of tin oxide (SnO <sub>2</sub> ) nanocrystal	Journal of Magnetism and Magnetic Materials	International	Vol: 395 , July 2015, Pg.No: 205-212	3.05
J.Julietlathajeyakumari, A.Yelilarasi, R.Anbarasan	Effect of nanosized clay and TiO <sub>2</sub> on the structure and thermal stability of poly(Aniline-Co-O-toulene)	<i>ActaPhysicaPolonica A</i>	International	<i>125(2014) 21-28</i>	0.4
P.Tamilselvi, <u>M.Hema</u>	Conductivity studies of LiCF <sub>3</sub> SO <sub>3</sub> doped PVA:PVdF blend Polymer electrolyte	<i>Physica B Condensed Matter</i>	International	<i>437(2014)53-57</i>	1.352
<b>M. Shanthi</b> , Chithra M. Mathew, M. Ulaganathan, S. Rajendran	FT-IR and DSC studies of poly(vinylidene chloride-co-acrylonitrile) complexed with LiBF <sub>4</sub> ,	<i>SpectrochimicaActa Part A: Molecular and Biomolecular Spectroscopy</i>	International		2.6