



Nallamuthu Gounder Mahalingam College

(An Autonomous Institution, Affiliated to Bharathiar University)

90, Palghat Road, Pollachi - 642001, Coimbatore, Tamil Nadu, India.

95th Rank in NIRF – 2023 - Among Colleges in India.



CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

3.7.1: COLLABRATIVE RESEARCH DURING 2019-2020

COLLABRATIVE RESEARCH DURING 2019-2020							
Title of paper	Name of the author/s	Name of the Institutions/ Corporates	Department of the teacher	Name of journal	Year of publication	ISSN number	
Performance Enhancement of PVDF/LiClO ₄ Based Nanocomposite Solid Polymer Electrolytes via Incorporation of Li _{0.5} La _{0.5} TiO ₃ Nano Filler for All-Solid-State Batteries	Pazhaniswamy Sivaraj, Karuthedath Parameswaran, Abhilash Balakrishnan, Nalini Pandurangam Perumal, Kalimuthu Somasundaram, Paneerselvam Christopher Selvin	*Luminescence and Solid State Ionics Laboratory, Department of Physics, Bharathiar University, Coimbatore, 641046, India **Materials Research Centre, Department of Physics, Nallamuthu Gounder Mahalingam College, Pollachi, Coimbatore, 642001, India ***Herbert Gleiter Institute of Nanoscience, Nanjing University of Science and Technology, Nanjing, 210094, P. R. China, ****Department of Physics, Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore, 641 043, India *****Luminescence and Solid State Ionics Laboratory, Department of Physics, Bharathiar University, Coimbatore, 641046, India,	Physics	Macromolecular Research	2020	15985032	View

		*****Materials Research Centre, Department of Physics, Nallamuthu Gounder Mahalingam College, Pollachi, Coimbatore, 642001, India.					
Mg-ion conducting triblock copolymer electrolyte based on poly(VdCl-co-AN-co- MMA) with magnesium nitrate	Ponraj T & A. Ramalingam & S. Selvasekarapan dian & S. R. Srikumar & R. Manjuladevi	*Department of Physics, Government Arts College, Udumalpet, Tamil Nadu, India **Department of Physics, Nallamuthu Gounder Mahalingam College, Pollachi, Tamil Nadu, India ***Materials Research Center, Coimbatore, Tamil Nadu, India, Materials Research Center, Coimbatore, Tamil Nadu, India, ****Bharathiar University, Coimbatore, Tamil Nadu, India, *****Kalasalingam Academy of Research and Education, Krishnankoil, TamilNadu, India, PSG College of Arts and Science, Coimbatore, Tamil Nadu, India	Physics	Ionics	2020	0947- 7047	View
Lithium ion conducting biopolymer membrane based on K-carrageenan with LiNO ₃	I. Arockia Mary , S. Selvanayagam , S. Selvasekarapan dian , R. Chitra , M. V. Leena Chandra , T. Ponraj.	*Department of Physics, Government Arts College, Melur, Madurai, Tamil Nadu, India **Department of Physics, Holy Cross College, Trichy, Tamil Nadu, India ***Materials Research Centre, Coimbatore, Tamil Nadu, India, Department of Physics, Bharathiar University, Coimbatore, Tamil Nadu, India, Materials Research Centre, Coimbatore, Tamil Nadu, India ****Department of Physics, Kongu Arts and Science College, Erode, Tamil Nadu, India, Materials Research Centre, Coimbatore, Tamil Nadu, India,	Physics	Ionics	2020	0947- 7047	View

		*****Department of Physics, Fatima College, Madurai, Tamil Nadu, India, Materials Research Centre, Coimbatore, Tamil Nadu, India *****Department of Physics, Nallamuthu Gounder Mahalingam College, Pollachi, Tamil Nadu, India					
Performance Enhancement of PVDF/LiClO₄ Based Nanocomposite Solid Polymer Electrolytes via Incorporation of Li_{0.5}La_{0.5}TiO₃ Nano Filler for All-Solid-State Batteries	Pazhaniswamy Sivaraj Karuthedath Parameswaran Abhilash Balakrishnan Nalini Pandurangam Perumal Kalimuthu Somasundaram 1, Paneerselvam Christopher Selvin	*Luminescence and Solid State Ionics Laboratory, Department of Physics, Bharathiar University, Coimbatore, 641046, India, **Materials Research Centre, Department of Physics, N. G. M. College, Pollachi, Coimbatore, 642001, India ***Herbert Gleiter Institute of Nanoscience, Nanjing University of Science and Technology, Nanjing, 210094, P. R. China ****Department of Physics, Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore, 641 043, India *****Luminescence and Solid State Ionics Laboratory, Department of Physics, Bharathiar University, Coimbatore, 641046, India, *****Materials Research Centre, Department of Physics, Nallamuthu Gounder Mahalingam College, Pollachi, Coimbatore, 642001, India *****Luminescence and Solid State Ionics Laboratory, Department of Physics, Bharathiar University, Coimbatore, 641046, India	Physics	Macromolecular Research	2020	15985032	View

A Study On Risk Towards Working Capital With Reference To City Union Bank	Dr. S. Shanthakumari & S.Kokilavizhi	*Associate Professor, Department of Commerce, Sree Saraswathi Thyagaraja College,Pollachi **Assistant Professor, Department of Commerce (SF), Nallamuthu Gounder Mahalingam College, Pollachi, Tamilnadu	Commerce	Think India Journal	2019	0971-1260	View
Influence of pH on the DSSC Performance of Template Assisted SnO2 Nanostructures	Vasanthapriya R, Neelakandeswar i N , K. Uthayarani M. Chitra	* Department of Chemistry, Sri Ramakrishna Engineering College **Department of Chemistry, Nallamuthu Gounder Mahalingam College, Pollachi, India.	Chemistry	Research Square	2019	ISSN 2693-5015 (online)	View
Insight into cations substitution on structural and electrochemical properties of nanostructured Li2FeSiO4/C cathodes	Pazhaniswamy S ivaraj Karuthedath Parameswaran Abhilash Balakrishnan Na lini Paneerselvam Christopher Selvin Sunkulp Goel Sudheer Kumar Yadav	*Solid State Ionics and Luminescence Laboratory, Department of Physics, Bharathiar University, Coimbatore, India, **Materials Research Centre, Department of Physics, Nallamuthu Gounder Mahalingam College, Pollachi, Coimbatore, 642001, India ***Herbert Gleiter Institute of Nanoscience, Nanjing University of Science and Technology, Nanjing, China, ****Department of Physics, Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore, India, *****Solid State Ionics and Luminescence Laboratory, Department of Physics, Bharathiar University, Coimbatore, India	Physics	Journal of American ceramic society	2019	0002-7820	View
Structure, dielectric, and temperature-	P. Sivaraj& K. P. Abhilash & B.	*Materials Research Centre, Department of Physics, Nallamuthu	Physics	Ionics	2019	0947-7047	View

dependent conductivity studies of the Li ₂ FeSiO ₄ /C nano cathode material for lithium-ion batteries	Nalini & P. Balraju & Sudheer Kumar Yadav & S. Jayapandi & P. Christopher Selvin	Gounder Mahalingam College, Pollachi, Coimbatore, 642001, India **Solid State Ionics and Luminescence Laboratory, Department of Physics, Bharathiar University, Coimbatore, 641046, India ***Department of Physics, National University of Singapore, Singapore, 117542, Singapore, ****Herbert Gleiter Institute of Nanoscience, Nanjing University of Science and Technology, Nanjing, 210094, China, *****Department of Physics, Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore, 641043, India *****Department of Physics, Coimbatore Institute of Technology, Coimbatore, 641014, India, *****Herbert Gleiter Institute of Nanoscience, Nanjing University of Science and Technology, Nanjing, 210094, China, School of Physics, Madurai Kamaraj University, Madurai, 625021, India, Solid State Ionics and Luminescence Laboratory, Department of Physics, Bharathiar University, Coimbatore, 641046, India					
Study on Mg-ion conducting solid biopolymer electrolytes based on tamarind seed polysaccharide for	P. Perumal, K.P. Abhilash, P.Sivaraj, P. Christopher Selvin	*Luminescence and Solid State Ionics Laboratory, Department of Physics, Bharathiar University, Coimbatore, 641046, India, **Herbert Gleiter Institute of Nanoscience, Nanjing University of	Physics	Materials Research Bulletin	2019	0025-5408	View

magnesium ion batteries		Science and Technology, Nanjing, 210094, China, *** Materials Research Centre, Department of Physics, Nallamuthu Gounder Mahalingam College, Pollachi, Coimbatore, 642001, India, ****Luminescence and Solid State Ionics Laboratory, Department of Physics, Bharathiar University, Coimbatore, 641046, India					
Reinforced photocatalytic reduction of SnO ₂ nanoparticle by La incorporation for efficient photodegradation under visible light irradiation	S. Jayapandi, S. Premkumar, D. Lakshmi, P. Packiyaraj, Kamatchirajan Balaji viswanath, P. Sivaraj, K. Anitha	*School of Physics, Madurai Kamaraj University, Madurai, 625021, India, **Department of Inorganic and Physical Chemistry, Indian Institute of Science, Bangalore, 560012, India, ***Department of Physics, Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore, 641043, India, ****Department of Physics, National Taiwan University, Taipei, 10617, Taiwan, Republic of China, School of chemistry, Madurai Kamaraj University, Madurai, 625021, India, ***** Department of Physics, Nallamuthu Gounder Mahalingam College, Pollachi, 642001, India, *****School of Physics, Madurai Kamaraj University, Madurai, 625021, India	Physics	Journal of Materials Science: Materials in Electronics	2019	0957-4522	View
Plasticizer incorporated, novel eco-friendly bio-polymer based solid bio-membrane for electrochemical clean energy applications	P. Perumal, P. Christopher Selvin,, S. Selvasekarapandian, P. Sivaraj, K.P. Abhilash, V.	*Solid State Ionics and Luminescence Laboratory, Department of Physics, Bharathiar University, Coimbatore, 641046, India, ** Department of Physics, Bharathiar University, Coimbatore, 641046, India, Luminescence	Physics	Polymer Degradation and Stability	2019	0141-3910	View

	Moniha , R. Manjula Devi	Laboratory, ***Department of Physics, Bharathiar University, Coimbatore, 641046, India, Materials Research Center, Coimbatore, 641045, India, ****Herbert Gleiter Institute of Nanoscience, Nanjing University of Science and Technology, Nanjing, 210094, China, Materials Research Center, Coimbatore, 641045, India, ***** Department of Physics, Nallamuthu Gounder Mahalingam College, Pollachi, 642001, India,					
Structural and Electrical Properties of Bio-polymer Pectin with LiClO ₄ Solid Electrolytes for Lithium Ion Polymer Batteries	P. Perumal , P. Christopher Selvin , S. Selvasekarapan dian , P. Sivaraj	*Solid State Ionics and Luminescence Laboratory, Department of Physics, Bharathiar University, Coimbatore 641046, India, **Materials Research Center, Department of Physics, Nallamuthu Gounder Mahalingam College, Pollachi, 642001, India,, Pollachi, India	Physics	Materials Today Proceedings	2019	2214- 7853	View