



ARULMIGU PALANIANDAVAR COLLEGE OF ARTS AND CULTURE
(Reaccredited With 'A' Grade by NAAC)
(Run by Arulmigu Dhandayuthapani Swamy Thirukkoil, H.R & C.E (Admin) Dept. Government of Tamilnadu)
(A Government Aided College – Affiliated to Madurai Kamaraj University, Madurai)
DINDIGUL ROAD, PALANI - 624601

Department of PHYSICS		
Name	R. PREMILA	
Designation	ASST. PROFESSOR & HOD (i/c)	
Qualification	M.Sc.,M.Phil., PGDCA, Ph. D.	
Email id	premlarahul@Rediffmail.com	
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Experience	10 years 5 months	
Date of joining	13. 02.2009	
No. Of Journal Publication (International)	04	
No. Of Journal Publication (National)	-	
No. Of Conference Attended (International)	12	
No. Of Conference Attended (National)	04	

Academic Credentials

Level	Degree	Specialization	University	Year of Completion
UG	B.Sc. PHYSICS	General Physics	N.G.M. College – Bharathiar University	1994
PG	M.Sc. PHYSICS	General Physics	N.G.M. College – Bharathiar University	1996
M.Phil.,	PHYSICS	SOLID STATE IONICS	ALAGAPPA UNIVERSITY	2001
Ph.D.,	PHYSICS	SOLID STATE IONICS	ALAGAPPA UNIVERSITY	2018
PG DIPLOMA	PGDCA	COMPUTER APPLICATION	ANNAMALAI UNIVERSITY	2006
Other2				

DETAILS OF JOURNAL PUBLICATIONS

INTERNATIONAL JOURNALS

1. **R. Premila**, C. Subbu, S. Rajendran, K. Selva kumar, “Experimental investigations of Nano filler TiO₂ doped composite polymer electrolytes for lithium ion batteries”, Journal of Applied Surface Science, 449 (2017) 426-434.
2. C. Subbu, S. Rajendran, K. Kesavan, **R. Premila**, “The physical and electrochemical properties of poly(vinylidene chloride-co-acrylonitrile) based polymer electrolytes prepared with different plasticizers”, Ionics, 22 (2016) 229 - 240.
3. **R.Premila**, S.Rajendran, C.Subbu, “Response of Conductivity towards the concentration of lithium perchlorate salt in solid polymer electrolytes”, International Journal of Research in Science Engineering and Technology, 9 (2016) 13-24.
4. **R. Premila**, S. Rajendran, K. Kesavan, “Influence of blend on the conductivity in Poly (ethyl methacrylate)/ Poly(vinyl acetate) based polymer electrolytes”, Nano Hybrids and Composites, 17 (2017) 202-216. (PERIODICALS)

DETAILS OF CONFERENCES ATTENDED

NATIONAL SEMINAR

1. Investigation on PVAc / PEMA Polymer blend electrolytes for Lithium ion battery application.

S.Rajendran, **R.Premila.**

National Conference on Advanced Materials and Applications (NCAMA), National Institute of Technology, Tiruchirapalli, Apr. 4-5, 2013.

2. Electrochemical Characterizations of PEMA/PVAC Based Polymer Blend Electrolytes.

S.Rajendran, **R.Premila.**

National seminar on Recent Advances in Materials Science (RAMS), Bharathidasan University, Trichy, Feb. 3-4, 2014.

3. Electrical, Morphological and Optical properties of PVAc/PEMA based solid polymer electrolytes.

S.Rajendran, **R.Premila.**

National Conference on Advancement in Material Science (AMS 2014), Coimbatore institute of technology, Coimbatore, Sep. 26-27, 2014.

4. The effect of LiClO_4 salt on Conductivity of Solid Polymer Blend Electrolytes for lithium ion batteries.

S.Rajendran, **R.Premila.**

National seminar on Semiconductor Materials & Device Processing for Energy Application, APAC for women, Palani, Mar. 25, 2015.

INTERNATIONAL CONFERENCE

1. Structural, Thermal and conductivity studies in PVAc/PEMA polymer blend electrolytes.

S.Rajendran, **R.Premila**, O.Mahendran.

Third International Multicomponent Polymer conference (IMPC 2012), M.G. University, Kottayam, Kerala, Mar. 23-25, 2012.

2. Ion conduction in plasticized PVC/PEMA based polymer blend electrolytes for lithium battery applications.

X.Helan Flora, **R.Premila**, M.Shanthi, S.Rajendran, M.Ulaganathan.

Third International Multicomponent Polymer conference (IMPC 2012), M.G. University, Kottayam, Kerala. Mar. 23-25, 2012.

3. Plasticized PVAc Based Polymer Blend Electrolytes For Lithium Ion Batteries.

S.Rajendran, **R.Premila**.

International conference on Recent Innovations in Engineering & Technology, Sri Subramanya college of Engineering & Technology, Palani, Apr. 2, 2016.

4. Influence of Blend on the Conductivity in Poly(vinyl acetate)/poly(ethyl methacrylate)

based Solid Polymer electrolytes.

S.Rajendran, **R.Premila**, K.Kesavan.

International conference on Nano science & Nano technology for Energy Applications, Sathyabama University, Chennai, Jun. 27-29, 2016.

5. The Role of Salt Concentration on Ionic Conductivity in Polymer Blend Electrolytes for Lithium Batteries.

S.Rajendran, **R.Premila**.

International seminar on Nano Science & Technology (ISNST2016), Mother Teresa Women's university, Kodaikanal, Sep. 20, 2016.

6. Electrochemical, Spectroscopic and Thermal Studies on Polymer Gel Electrolytes for lithium battery applications.

S.Rajendran, **R.Premila**.

International Conference on Recent Advances in Materials Chemistry (ICRAMC-2017), Department of Chemistry, SRM University, Kattankulathur, Feb. 15-17, 2017.

7. Characterization of PVAc/ PEMA Based Plasticized Polymer Blend Electrolytes.

S.Rajendran, **R.Premila**.

International conferences on Membrane Technology and its Applications (MEMSEP -2017), NIT, Trichy, Feb. 21-23, 2017.

8. Structural, Thermal, Electrical and Dielectric studies in Composite Polymer Blend Electrolytes.

S.Rajendran, **R.Premila**.

International conferences on Energy, Environment and advanced Materials for a sustainable future (ICEEAMSF -2017), Kongu Engineering College, Peundurai, Erode, May 23-24, 2017.

9. Dielectric Response of LiClO₄ Salt in Solid Polymer Blend Electrolytes.

S.Rajendran, **R.Premila**.

International seminar on Material science and Technology (ISMST -2017), Mother Teresa Women's University, Kodaikonal, Aug. 4, 2017.

10. Experimental Investigation of Nano Fillers TiO₂ Doped Composite Polymer Electrolytes for Lithium Ion Batteries.

S.Rajendran, **R.Premila**, C.Subbu.

4th International Conference on Nanoscience and Nano technology (ICONN-2017),
SRM University, Aug. 09-11, 2017.

11. Ionic Conductivity and Thermal Stability of GEL Polymer Electrolytes for
Lithium Ion Batteries.

S.Rajendran, **R.Premila.**

International Conference on Advanced Materials Science and Technology(ICAMST -
2017), Bannari Amman instistitute of technology, Sathyamangalam, Aug. 17-19,
2017.

12. Effect of various plasticizers on the ionic conductivity in PVAc/ PEMA based
polymer blend electrolytes for lithium rechargeable batteries.

S.Rajendran, **R.Premila.**

International Conference on Momentus Role of Nanomaterials in Renewable Energy
Devices (IC MNRE-2018), March 1-2, 2018.