



## Dr. M. Ramesh Prabhu

Assistant Professor

### Contact

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### Academic Qualifications

Degree	Institution	Year	Branch	Class
B.Sc.	Alagappa Govt. Arts College, (Madurai Kamaraj University)	2004	Physics	First
M.Sc.	Alagappa University	2006	Physics	First
Ph.D.	Alagappa University	2010	Synthesis and Characterization of solid polymer blend electrolytes based on PEMA	Highly Recommended

## Teaching Experience

Total Teaching Experience : UG: 05 months  
PG: 11 Years 9 months

Position	Institution	Duration
Assistant Professor	Chendhuran college of Engineering and Technology	Nov 2010 - May 2011
Assistant Professor (AL 10)	Alagappa University	May 2012 - May 2016
Assistant Professor (AL 11)	Alagappa University	May 2016 – May 2021
Assistant Professor (AL 12)	Alagappa University	May 2021 – Till Date

## Research Experience

Total Research Experience : 18 Years

Position	Institution / University	Duration
Research Scholar	Alagappa University	2006-2010
Assistant Professor	Chendhuran college of Engineering and Technology	2010-2011
Assistant Professor	Alagappa University	2012-Till date

## Academic and Additional Responsibilities

S.No	Position	University Bodies	Period	
			From	To
1.	Department Coordinator	UGC-SAP	2015	2020
2.	Department Coordinator	Ambience committee	2016	2022
3.	Department Coordinator	Discipline committee	2016	2022
4.	Department Coordinator	CSIR-NET/SET	2016	2022
5.	Department Coordinator	IQAC	2016	Till Date
6.	Department Coordinator	NAAC	2016	Till Date
7.	Treasurer	Alumni Association	2016	Till Date
8.	Department Coordinator	NIRF	2018	2023
9.	Class-In charge	Remedial Class-In charge	2018	2021

10.	Deputy Co-Ordinator	ATAL Ranking	2022	Till Date
11.	Member	NAAC Criterion VI- Sub Committee	2023	Till Date

### Areas of Research

- **Fuel cells** - Nanofiller modified polymeric membrane with remarkable mechanical strength and proton conductivity for proton exchange membrane fuel cell
- **Battery** - Study on the physical and chemical properties of electrolyte and intercalation cathodes for high performance rechargeable magnesium batteries.
- **Supercapacitor** - Investigation on transition metal dichalcogenides based ternary nanocomposites for high performance supercapacitor application.

### Research Supervision / Guidance

Program of Study		Completed	Ongoing
Research	PDF	Nil	Nil
	Ph. D.	09	05
	M. Phil	20	-
Project	PG	54	05
	UG / Others	-	-

### Publications

International		National		Others
Journals	Conferences	Journals	Conferences	Books / Chapters / Monographs / Manuals
85	34	5	25	<ol style="list-style-type: none"> <li>1. <b>Advanced Electronics and Physics Laboratory – III – Lab manual.</b></li> <li>2. <b>Microprocessor and Electronic Instrumentation – Book.</b></li> </ol>

**Cumulative Impact Factor (as per JCR)** : 278.628  
**h-index** : 24  
**i10 index** : 52  
**Total Citations** : 1649

## Publications

**Thesis Evaluated** : 09 (Internal)+02 (External)  
**Viva voce Examiner** : 09 (Internal)+02 (External)

## Funded Research Projects

### Completed Projects:

S.No	Agency	Period		Project Title	Budget (Rs. In lakhs)
		From	To		
1	UGC	2013	2017	Investigations on nanofiller incorporated PEMA composite electrolyte for lithium batteries	9.68
2	MHRD RUSA 2.0	2016	2019	Advanced Nanomaterials for Sustainable Energy and Sensor Applications	05
3	DST- SERB	2018	2021	Synthesis and characterization of SPEEK perovskite-based proton conducting polymer electrolyte membrane for HT-PEMFC	26.68
4	MHRD RUSA 2.0	2022	2023	Advanced Nanomaterials for Sustainable Energy and Sensor Applications	05

## Distinctive Achievements / Awards

- RFSMS Fellow during 2008 to 2010
- Vallal Alagappan Research Recognition Award-2020
- Listed in the category of Scientists in India working on membrane for fuel cells, India Country Status Report on Hydrogen and Fuel Cells, Department of Science and Technology, Government of India.

- Promising Researcher Award - 2022
- Young Scientist Award (Saraswathy Srinivasn Prize) -The Academy of Science, Chennai-2022

## Events organized in leading roles

Number of Seminars / Conferences / Workshops / Events organized:

Position	Programme	Duration	Institution
Organizing Secretary	National seminar on Advanced Materials Research	19 January 2017	Alagappa University
Organizing Secretary	ACT NEXT 2017	18 March 2018	Alagappa University
Organizing Secretary	World Standards Day	15 October 2018	Alagappa University
Organizing Secretary	National Conference on Advanced Materials for Sustainable Energy and Sensors (NCAMSES-2019)	20-22 March 2019	Alagappa University
Organizing Secretary	International Conference on Advanced Materials for Sustainable Energy and Sensors (INCAMSES-2019)	16-17 September 2019	Alagappa University
Organizing Secretary	Launch of 5G Services	21 February 2023	Alagappa University
Event Coordinator	Alagappa University Talent Exhibit Show 2023	4 <sup>th</sup> to 6 <sup>th</sup> October 2023	Alagappa University
Organizing Secretary	ACT NEXT 2023	19 February 2024	Alagappa University
Organizing Secretary	National Space Day	23 August 2024	Alagappa University
Organizing Secretary	World Standards Day	14 October 2024	Alagappa University

## Events Participated

Number of Conferences / Seminars / Workshops:

### International

1. World Standards Day, Alagappa University, Karaikudi, 14 October 2020.
2. Two Days International Virtual Conference on Renewable Energy Science and Technology (ICREST-2020), Department of Energy Science, Alagappa University, Karaikudi, 28-29 September 2020.

3. International Virtual Conference on Recent Trends in Energy Materials (INCRTEM – 2020), Department of Physics, Alagappa University, Karaikudi, 9-11 September 2020.
4. 14<sup>th</sup> International Conference on Ecomaterials (ICEM14), CSIR-National Institute of Interdisciplinary Science and Technology (CSIR-NIIST), Thiruvananthapuram, India, 5-7 February 2020.
5. 2<sup>nd</sup> International Conference on Mathematical modeling and Computational Methods in Science and Engineering (ICMMCMSE-2020), Alagappa University, Karaikudi, 22-24 January 2020.
6. Fifth International Conference on Polymer Processing and Characterization (ICPPC-2019), Mahatma Gandhi University, Kottayam, Kerala, 11-13 October 2019.
7. International Conference on Advanced Materials for Sustainable Energy and Sensors (INCAMSES-2019), Alagappa University, Karaikudi, 16-17 September 2019.
8. International Conference on Recent Advances in Applied Chemical Sciences (ICRAACS-2019), Sree Sevugan Annamalai College, Devakottai, 6 September 2019.
9. International Conference on “Emerging Paradigms in Diseases Management and Energy Technology” (ICDMET – 2019), Dr. Umayal Ramanathan College for Women, Karaikudi, 7-8 August 2019.
10. Indo-German Bilateral Workshop on Membranes for Water and Energy (IGWMWE), CSIR-Central Salt and Marine Chemicals Research Institute, Gujarat, 18-20 February 2019.
11. International Conference on Nanoscience and Nanotechnology (ICONN 2019), SRM University, Chennai, 28-30 January 2019.
12. Twelfth International Symposium in Advances in Electrochemical Science and Technology (iSAEST-12), CSIR-CECRI, Chennai, 8-10 January 2019.
13. International Conference on Emerging Trends and Challenges (ICETC-2018), NPR arts and science college, Natham, Dindigul, 28 December 2018.
14. International Conference on Green Energy Technologies for Smart Cities (GETSC-2018), SRM University-AP, Amaravati, India, 19-21 December 2018.
15. International Conference on Momentous role on Nanomaterials in Renewable Energy devices (ICMNRE-2018), Alagappa University, Karaikudi, 1-2 March 2018
16. International symposium on crystallography and advanced materials (ISCAM) 2018, University of Madras, Chennai, 26- 27, March 2018
17. International Conference on Nanoscience and Nanotechnology (ICONN 2017), SRM university, Kattankulathur, 9-11 August 2017
18. Eleventh International Symposium on Advances in Electrochemical Science and Technology (iSAEST-11, 2016), Society for Advancement of Electrochemical Science and Technology (SAEST) with CSIR-CECRI, Chennai, 8-10 December 2016.
19. Asian Consortium on Computational Materials Science (ACCMS), SRM University, SRM Research Institute and Department of Physics and Nanotechnology, Chennai, 22-24 September 2016.
20. International Seminar on Nanoscience and Technology (ISNST-2016), Department of Physics, Mother Teresa Women’s University, Kodaikanal, 20 September 2016.

21. International Conference on Functional Materials (ICFM-2016) Center for Scientific and Applied Research, PSN College of Engineering and Technology, Tirunelveli, 07-10 September 2016.
22. International conference on materials for sustainable future (ICMSF-2016), Department of Chemistry, Sastra University, Thanjavur, 14&15 July 2016.
23. International conference on Frontier Areas in Chemical Technologies (FACTs-2016), Department of Industrial Chemistry, Bioelectronics & Biosensors, Nanoscience and Technology, Alagappa University, Karaikudi, 06 & 07 March 2016.
24. International Conference on Frontiers in Nanoscience and Nanotechnology, Sastra University, Thanjavur, 26-28 February 2016.
25. 60<sup>th</sup> DAE Solid State Physics Symposium, Amity University, Noida, Uttar Pradesh, 21-25 December 2015.
26. International conference on Recent Advances in Materials and Chemical Sciences (ICRAMCS-2015), Department of Chemistry, Gandhigram Rural Institute - Deemed University, Gandhigram, 14-15 December 2015.
27. International Conference on Condensed Matter & Applied Physics (ICC-2015), Government Engineering College, Bikaner, Rajasthan, 30&31 October 2015.
28. International conference on Recent Advances in Materials (ICRAM-2015), Jamal Mohamed College (Autonomous), Tiruchirappalli, 16 & 17 October 2015.
29. International Conference on Recent Advances in Nano Science and Technology (RAINSAT-2015), Sathyabama University, Chennai, 8-10 July 2015.
30. 2<sup>nd</sup> International conference on advanced functional materials (ICAFM 2014), CSIR-National Institute for Interdisciplinary Science & Technology, Thiruvananthapuram, 19- 21 February 2014.
31. 5<sup>th</sup> ESIS TC4 conference, Les Diablerets, Switzerland, 7-11 September 2008.
32. Junior EUROMAT, Lausanne, Switzerland, 14-18 July 2008.
33. International conference on Nano science and Technology, IGCAR, Kalpakkam, 27-29 February 2008.
34. International conference on Advancement of nanoscience and nanotechnology (ICOANN-10), Department of Nano Science and Technology, Alagappa University, Karaikudi, 1-3 March 2010

### **National**

1. 25<sup>th</sup> National Seminar on Crystal Growth and Applications (XXV NSCGA-2023), Department of Physics, Alagappa University, Karaikudi, 21<sup>st</sup>-23<sup>rd</sup> June 2023.
2. Special Lecture on “Future of Energy Storage”, Jamal Mohamed College (Autonomous), Tiruchirappalli, 08.02.2023 -Invited Talk.
3. Act Next 2021, Alagappa University, Karaikudi, 17<sup>th</sup> March 2022.
4. One day seminar on Challenges and Opportunities of Fuel Cells "Emerging Trends in

Fuel cells- Vidhyaa Giri college of Arts and Science, Puduvayal, 18 March 2021 - Invitedtalk

5. National level webinar on "Emerging Trends in Physics", PG Department of Physics, Government Arts College for Women, Salem, 20 August 2020 – Invited Talk.
6. National Workshop on Advanced Nanomaterials for Sustainable Energy and Sensor Applications (AN-SEA 2020), Alagappa University, Karaikudi, 4-6 March 2020.
7. National Conference on Advanced Materials for Sustainable Energy and Sensors (NCAMSES- 2019), Alagappa University, Karaikudi, 20-22 March 2019.
8. ACT Next 2017, Alagappa University, Karaikudi, 28 March 2018
9. Proceeding of the national conference on Futuristic materials (NCFM – 2017) Department of Physics, Alagappa University, Karaikudi, 27-28 March, 2017.
10. Synthesis and characterization and application of advanced materials (AMR-2017), Department of Physics, Alagappa University, Karaikudi, 19<sup>th</sup> January, 2017.
11. National Conference on Advanced Materials (NCAM-2016), Department of Physics, St. Joseph's College, Tiruchirappalli, 07 October 2016.
12. 2<sup>nd</sup> National conference on Nanophotonics (NCNP-2016), School of Physics, Bharathidasan University, Tiruchirappalli, 18 & 19 March 2016.
13. National Seminar on Frontier Areas in Chemical Technologies (FACTS-2015), Department of Industrial Chemistry, Alagappa University, Karaikudi, 06 & 07 March 2015.
14. National Conference on Advanced Materials (NCAM-2015), Department of Physics & Department of Electronics, St. Joseph's College, Tiruchirappalli, 06 February 2015.
15. 59<sup>th</sup> DAE Solid State Physics Symposium, VIT University, Vellore, 16-20 December 2014.
16. Department of Physics & Department of Electronics, St. Joseph's College, Tiruchirappalli, 24 February 2014.
17. 3<sup>rd</sup> National Seminar on Technologically Important Crystalline and Amorphous Solids (TICAS-2014), Department of Physics, Kalasalingam University, Krishnankoil, 28th February & 01st March, 2014.
18. 8<sup>th</sup> National conference on Solid State Ionics (8NCSSI), Department of Physics, Dr. Hari Singh Gour University, Sagar, Madhya Pradesh, 7-9 December 2009.
19. National Conference on Recent Advances in Textile and Electrochemical Sciences (RATES-2009), Department of Industrial Chemistry, Alagappa University, Karaikudi, 04&05 December 2009.
20. National conference on advanced materials (NCAM- 2009), PSN college of Engineering and Technology, Tirunelveli, 27- 29 August 2009.
21. National conference on Recent Trends in Crystal Growth, Thin Films and Nano-Structured, Materials Department of Physics, Aditanar College of Arts & Science, Tiruchendur, India, 5&6 August 2009.
22. National conference on Advances in Nanomaterials, Devices and Technologies, Department of Physics, S.V. Degree college, Kadapa, 11&12 July 2009.
23. National Conference on Nanomaterials for energy conversion and conservation-09,

- Department of Physics, Bishop Heber College, Tiruchirappalli, 26 March 2009.
24. National conference on emerging Materials, Devices and Technologies, Sri Venkateswara University, Tirupati, 24&25 February 2009.
  25. National Conference on Advanced Materials, Devices and Technologies, Sri Venkateswara University, Tirupati, Andhrapradesh, 20- 22 February 2008.
  26. National conference on Emerging materials and Technologies for India-2020, National Institute of Technology, Tiruchirappalli, 24 & 25 January 2008.
  27. 7th National Conference on Solid State Ionics, APS University, Rewa, Madhyapradesh, 1-3 November 2007.
  28. National conference on Emerging Trends in Physics, Jayaraj Annapackiam College for Women, Periyakulam, Theni, 30 & 31 August 2007.

### **Other Training Programs**

1. Orientation Programme (Nov 2014 to Dec 2014)
2. Refresher Course (Feb 2016 to Mar 2016)
3. One week online FDP on "Higher Education During COVID Times and After: Challenges and Opportunities, The Internal Quality Assurance Cell, Bishop Moore College, Mavelikara, Kerala (23-29 May 2020).
4. Two-Week Online Capacity Building Programme for Faculty Members and Research Scholars, Alagappa University, Karaikudi, under the sponsorship of UGC STRIDE Component-I Scheme (12-23 June 2020).
5. Online Refresher Course in Material Sciences: Recombinant Memetics, Organised by Osmania University, Hyderabad, Telengana. (01.02.2021 -13.02.2021)
6. UGC- Sponsored Online Refresher Course in Physical Science (Interdisciplinary) Organized by HRDC Bharathidasan University, Tiruchirappalli. (27.07.2023 – 09.08.2023)

## **Membership**

### **Professional Bodies**

1. Life Member: Association of IPA of India
2. Life Member: Society of MRSI, India
3. Life Member: SAEST, CECRI, Karaikudi
4. Life Member: Indian Society of Atomic and Molecular Physics
5. Life Member: Indian Science and Technology Association-Elavenil
6. Life Member: Bose Science Society, India

## Academic Bodies in Other Institutes/ Universities

Year / Period	Name of the BoS / Administrative Committee / Academic Committee	Role
2022	Board of Studies- Electronics Government Arts College, Paramakudi	Member
2019	Doctoral Research Committee- Council for Scientific and Industrial - Central Electrochemical Research Institute CSIR-CECRI, Karaikudi	Member
2018-2019	Board of Studies-: Department of Physics, Rathinam College of Arts and Science, Coimbatore.	Subject Expert
2018	Doctoral Research Committee- Periyar EVR College, Tiruchirapalli.	Member
2017	Doctoral Research Committee- St. Joseph College, Tiruchirapalli.	Member
2016-Till date	Question paper setter – Bharathidasan University, Bharathiar University, Periyar University, Thiruvalluar University, Gandhigram University and Periyar EVR College, Trichy, Government Arts College, Pudukkottai, Madras University.	Question paper Setter

## Ph.D. Thesis Guided

- No. of PhD Thesis evaluated : 09 (Internal) + 02 (External)
- No. of PhD Public Viva Voce Examination conducted : 09 (Internal) + 02 (External)

S. No	Name of the Scholar	Title of the Thesis	Year of Completion
1.	P. Pradeepa (Reg. No. 0735)	Investigations on PEO/PVDF-HFP based blend polymer electrolytes for lithium rechargeable batteries.	2016
2.	J. Kalaiselvi (Reg. No. 1047)	Development and characterization of single chamber microbial fuel cells for sustainable energy production.	2018
3.	K. Selvakumar (Reg. No. 0799)	Development and characterization of non-fluorinated polymer membranes for fuel cell application.	2019

4.	S. Ponmani (Reg. No. 1432)	Synthesis and characterization of PVDF-HFP/PVAc based polymer blend electrolytes for magnesium ion batteries.	2020
5.	G. Sowmya (Reg. No. 0983)	Synthesis and characterization of polymer electrolyte membranes for microbial fuel cell application.	2020
6.	K. Raja (Reg. No. 1249)	Study on polymer blend membranes for high temperature proton exchange membrane fuel cell (HTPEM) Application.	2020
7.	P. Martina (Reg. No. 1135)	Preparation and characterization of nanocomposite membranes based on SPEEK-PVDF co HFP for PEMFC application.	2020
8.	M. Raja Pugalenti (Reg. No. 1964)	Facile enhancement in proton conductivity of SPEEK using functionalized perovskites-synthesis, characterization and application towards proton exchange membrane fuel cells.	2021
9.	R. Gayathri (Reg. No. 1948)	Optimization of sulfonated poly ether sulfone-based nanocomposite membrane by various experimental techniques for proton exchange membrane fuel cell application.	2022
10	E. Mahendiravarman (External)	Synthesis and modification of improved anti biofouling anion exchange membrane for microbial fuel cell applications.	2017
11.	M.J. Uma (External)	Synthesis and characterization of pure and doped barium titanium oxide nanoparticles.	2024

## List of Research Articles / Recent Publications

S. No	Authors/Title of the paper/Journal	Impact Factor
1.	Thirbika S, Kaveevivitchai W , Ramesh Prabhu M, An ultrafast, stable and highly reversible nickel magnesium vanadate cathode for magnesium ion batteries, Journal of Alloys and Compounds, 1008, 176518	5.8
2.	J Jothisha, Anitha Rexalin Devaraj, A Saranya, M Shandhiya, B Janarthanan, M Ramesh Prabhu, Z Mohamed Riyas, S Sharmila, Biomass nanoarchitectonics using an agro waste extract for biological performance of samarium doped zinc oxide nanoparticles, Applied Physics A (2024), 130 (5), 287	2.5
3.	JB Arul Joseph Helen Theresa, K Selvakumar, A Ariharan, <b>M Ramesh Prabhu</b> , P Sivakumar, Custom-made SPEEK polymer composite membranes using perovskite structured SrCeO <sub>3</sub> for DMFC applications, Journal of Solid State Electrochemistry (2024), 28, 3133–3145	2.6
4.	Shandhiya Murugan, Deepika Balraj, Saranya Amirtharajan, <b>Ramesh P Manimuthu</b> , Rama R N Venkata, Janarthanan Balasundaram, Mohamed R Ziaudeen, Sharmila Saminathan, Evaluation of magnetic and electrochemical performance of copper oxide nanoparticles using Myristica fragrans (mace) extract, Zeitschrift für Physikalische Chemie (2024),	3
5.	Z Mohamed Riyas, C Priya, S Ponmani, <b>M Ramesh Prabhu</b> , Exploration of La <sub>2</sub> O <sub>3</sub> -CuO nanocomposite as an effective electrode material for asymmetric supercapacitor applications, Journal of Alloys and Compounds (2023), 965, 171350	6.2
6.	S Suganya, M Mujahid Alam, F Kousi, G Ramalingam, <b>M Ramesh Prabhu</b> , S Sudhahar, Facile one-pot synthesis of ternary Ni-Mn-Zn oxide nanocomposites for high-performance hybrid supercapacitors, Journal of Energy Storage (2023), 71, 108176	9.4
7.	Z Mohamed Riyas, <b>M Ramesh Prabhu</b> , K Sankaranarayanan, Hydrothermal synthesis of La <sub>2</sub> O <sub>3</sub> -ZnO nanocomposites as electrode material for asymmetric supercapacitor applications, Journal of Materials Science: Materials in Electronics (2023), 34,22, 1612	2.8
8.	M Raja Pugalenti, Konlayutt Punyawudho, M Anbu Arasi, AA Shah, <b>M Ramesh Prabhu</b> , M Kouthaman, K Velsankar, R Gayathri, Designing high performance electrospun SPEEK nanofibers composite membrane for PEMFC application, Materials Letters (2023), 339, 134117	3.0
9.	G Maheshwaran, <b>M Ramesh Prabhu</b> , G Ravi, K Sankaranarayanan, S Sudhahar, Probing the energy conversion and storage process in two dimensional layered bismuthene-hexagonal boron nitride nanocomposite electrode and PVA-KOH-BaTiO <sub>3</sub> piezoelectrolyte nanogenerators, Nano Energy (2023),106, 108060	17.6
10.	S Suganya, G Maheshwaran, <b>M Ramesh Prabhu</b> , P Devendran, M Krishna Kumar, S Sudhahar, Enhanced electrochemical activity of	9.4

	ternary Co-Mn-Zn oxide for the fabrication of hybrid supercapacitor applications, Journal of Energy Storage (2022),56, 106057	
11.	G Maheshwaran, P Pandi, S Suganya, B Arjun Kumar, G Ramalingam, <b>M Ramesh Prabhu</b> , S Sudhahar, Fabrication of self charging supercapacitor based on two dimensional bismuthene-graphitic carbon nitride nanocomposite powered by dye sensitized solar cells, Journal of Energy Storage(2022), 105900	9.4
12.	Maheshwaran Girirajan, Nivedhitha Bharathi Alagarsamy, Kalliammal Ramachandran, <b>Ramesh Prabhu Manimuthu</b> , Devendran Pazhanivel, Krishna Kumar Muthusamy, Sudhahar Sakkarapani, Two dimensional layered bismuthene nanosheets with ultra-fast charge transfer kinetics as a superior electrode material for high performance asymmetric supercapacitor, Electrochimica Acta,426, 140838,2022	6.6
13.	Maheshwaran Girirajan, Venkatesan Arumugam, Suganya Subramaniyan, <b>Ramesh Prabhu Manimuthu</b> , Sudhahar Sakkarapani, Two-Dimensional Layered Bismuthene/Antimonene Nanocomposite as a Potential Electrode Material for the Fabrication of High-Energy Density Hybrid Supercapacitors, Energy & Fuels,36,19, 12299-12309,2022	5.3
14.	Z. Mohamed Riyas, C. Priya, R. Premila, G. Maheshwaran, S. Sudhahar, <b>M. Ramesh Prabhu*</b> , Synergistic effect of La <sub>2</sub> O <sub>3</sub> - NiO nanocomposite based electrode for electrochemical high-performance asymmetric supercapacitor applications, (2022), Journal of Energy Storage 53,104988, DOI:10.1016/j.est.2022.104988	8.907
15.	Z. Mohamed Riyas, R. Gayathri, <b>M. Ramesh Prabhu*</b> , K. Velshankar, S. Sudhahar, Green synthesis and biomedical behavior of Mg-doped ZnO nanoparticle using leaf extract of <i>Ficus regiliosa</i> , (2022), Ceramics International, DOI: 10.1016/j.ceramint.2022.05.107	5.532
16.	Maheshwaran G, Nivedhitha Bharathi A, Kalliammal R, <b>Ramesh Prabhu M</b> , Devendran Pazhanivel, Krishna Kumar M, Sudhahar S*, Two dimensional layered bismuthene nanosheets with ultra-fast charge transfer kinetics as a superior electrode material for high performance asymmetric supercapacitor, Electrochimica Acta 426 (2022) 140838. <a href="https://doi.org/10.1016/j.electacta.2022.140838">https://doi.org/10.1016/j.electacta.2022.140838</a>	6.901
17.	S. M. Fathima Khyrun, Z. Mohamed Riyas, Vaishnavi Raja, Sulthana Sabura Sarbudeen, K. Velsankar, S. Sudhahar, M. Ramesh Prabhu, Mydhili Govindarasu, Muthu Thiruvengadam, Basker Venkidasamy, Chandran Janani, Thevasundari Selvaraj, Environmental and biomedical applications in the synthesis and structural, optical, elemental	3.111

	characterizations of Mg doped ZnO nanoparticles using Coleus aromaticus leaf extract, South African Journal of Botony, <a href="https://doi.org/10.1016/j.sajb.2022.02.031">https://doi.org/10.1016/j.sajb.2022.02.031</a>	
18.	Gayathri Ravi Kumar, Raja Pugalenti M, Guozhong Cao, and <b>Ramesh Prabhu Manimuthu*</b> , Reinforced Hydroxylated Boron Nitride on Porous Sulfonated Poly(ether sulfone) with Excellent Electrolyte Properties for H <sub>2</sub> /O <sub>2</sub> Fuel Cells, (2022), <i>Energy &amp; Fuels</i> (ACS), DOI: 10.1021/acs.energyfuels.2c00604	3.605
19.	S.Thirbika, H.Karthi, R.Premila, M.Ramesh Prabhu*, Investigations on biosynthesized nickel oxide nanoparticles using Cymbopogon citratus leaf extract for antibacterial activity, (2022), <i>Materials Today Proceedings</i> , DOI: 10.1016/j.matpr.2022.05.168	
20.	Gayathri Ravi Kumar, Cao Guozhong, Ramesh Prabhu Manimuthu, Sandwich assembly of sulfonated poly (ether sulfone) with sulfonated multiwalled carbon nanotubes as an efficient architecture for enhanced electrolyte performance in H <sub>2</sub> /O <sub>2</sub> fuel cells. <i>Int J Energy Res.</i> 2021;1–18. (2021) DOI: 10.1002/er.7329	4.672
21.	Kanakaraj Selvakumar, AeRhanKim, Manimuthu Ramesh Prabhu, Dong Jin Yoo, Structural and Thermal Analysis and Membrane Characteristics of Phosphoric Acid- doped Polybenzimidazole/Strontium Titanate Composite Membranes for HT-PEMFC Applications, <i>Composites Research</i> , 2021, vol.34, no.6, pp. 373-379. DOI : 10.7234/composres.2021.34.6.373	
22.	G.Maheshwaran, C.Selvi, R.kaliammal, M.Ramesh Prabhu, M.Krishna kumar, S.Sudharar, Exploration of chromium nickel oxide nano composite superior electrode materials for super capacitor Application, <i>Material Letters</i> (2021), DOI: ORG\10.1016/j.mater.letter	3.574
23.	Karuppusamy Raja, Mariappan Raja Pugalenti and <b>Manimuthu Ramesh Prabhu*</b> , Investigation on the sulfonated poly(ether ether ketone)/poly(amide-imide)/barium cerate-based nanocomposite membrane for proton exchange membrane fuel cells, (2021), <i>International Journal of Energy Research</i> , DOI: 10.1002/er.6393	4.67
24.	Raja Pugalenti M, <b>Ramesh Prabhu Manimuthu</b> , Synergistic Effect of Polydopamine-Modified CaZrO <sub>3</sub> Perovskite and Hydroxylated SPEEK on Acid–Base Cation Exchange Membrane Fuel Cells, (2021), <i>Energy &amp; fuels</i> 16837-16849	3.605
25.	M. Raja Pugalenti and <b>M. Ramesh Prabhu*</b> , The Pore filled SPEEK nanofibers matrix combined with ethylene diamine	5.477

	modified SrFeO <sub>3</sub> nanoneedles for the cation exchange membrane fuel cells, (2021), Journal of the Taiwan Institute of Chemical Engineers, DOI: 10.1016/j.jtice.2021.04.054	
26.	K. Selvakumar, <b>M. Ramesh Prabhu*</b> , Enhancing Proton Conduction of Poly(Benzimidazole) with Sulfonated Titania Nano Composite Membrane for PEM Fuel Cell Applications, (2021), Macromolecular Research, DOI: 10.10071/s/132-021-90147 I.m 2.34	2.127
27.	Raja Pugalenti M, Guozhong Cao, <b>Ramesh Prabhu Manimuthu*</b> , Cross-linked SPEEK-PEG-APTEOS modified CaTiO <sub>3</sub> perovskites for efficient acid-base cation exchange membrane fuel cell, (2020), Energy & Fuels (ACS), DOI: 10.1021/acs.energyfuels.0c01933	3.605
28.	R. Gayathri, <b>M. Ramesh Prabhu*</b> , Protonated state and synergistic role of Nd <sup>3+</sup> doped barium cerate perovskite for the enhancement of ionic pathways in novel sulfonated polyethersulfone for H <sub>2</sub> /O <sub>2</sub> fuel cells, (2020), Soft Matter (RSC), DOI: 10.1039/d0sm00427h	4.046
29.	Raja Pugalenti Mariappan, Chaofeng Liu, Guozhong Cao, <b>Ramesh Prabhu Manimuthu*</b> , Tailoring SPEEK/SPVdF-co-HFP/La <sub>2</sub> Zr <sub>2</sub> O <sub>7</sub> Ternary Composite Membrane for Cation Exchange Membrane Fuel Cells, (2020), Industrial & Engineering Chemistry Research (ACS), <a href="https://doi.org/10.1021/acs.iecr.9b06922">https://doi.org/10.1021/acs.iecr.9b06922</a>	4.326
30.	P. Martina, R. Gayathri, M. Raja Pugalenti, Guozhong Cao, Chaofeng Liu, <b>M. Ramesh Prabhu*</b> , Nano-sulfonated silica incorporated SPEEK / S-PVdF-HFP polymer blend membrane for PEM fuel cell application, (2020), <i>Ionics</i> , <a href="https://doi.org/10.1007/s11581-020-03478-9">https://doi.org/10.1007/s11581-020-03478-9</a>	2.961
31.	G. Sowmya, S. Gowrishankar, <b>M. Ramesh Prabhu*</b> , Influence of phosphotungstic acid in sulfonated poly (ether ether ketone) - poly (amide imide) based proton conductive membranes and its impact on the electrochemical studies of microbial fuel cell application (2020), <i>Ionics</i> , <a href="https://doi.org/10.1007/s11581-019-03415-5">https://doi.org/10.1007/s11581-019-03415-5</a>	2.961
32.	Raja K, Raja Pugalenti M and <b>Ramesh Prabhu M*</b> , The Effect of incorporation of ferrous titanate nanoparticles in sulfonated poly(ether ether ketone)/poly (amide imide) acid-base polymer for cations exchange membrane fuel cells (2019), <i>Journal of Solid State Electrochemistry</i> . <a href="https://doi.org/10.1007/s10008-019-04453-9">https://doi.org/10.1007/s10008-019-04453-9</a>	2.747
33.	S. Ponmani, K. Selvakumar, <b>M. Ramesh Prabhu*</b> , The Effect of	2.961

	the Geikeilite (MgTiO <sub>3</sub> ) nanofiller concentration in PVdF-HFP/PVAc based polymer blend electrolytes for Magnesium ion battery (2020), <i>Ionics</i> . <a href="https://doi.org/10.1007/s11581-019-03341-6">https://doi.org/10.1007/s11581-019-03341-6</a>	
34.	J. B. Arul Joseph Helen Therese, R. Gayathri, K. Selvakumar, <b>M. Ramesh Prabhu*</b> , P. Sivakumar, Incorporation of sulfonated silica nano particles into polymer blend membrane for PEM fuel cell applications (2019), <i>Materials Research Express</i> , DOI: 10.1088/2053-1591/ab4a3b	1.94
35.	Raja K, Raja Pugalenti M and <b>Ramesh Prabhu*</b> , Investigation on SPEEK/PAI/SrTiO <sub>3</sub> -based nanocomposite membrane for high-temperature proton exchange membrane fuel cells, (2019), <i>Ionics</i> , DOI: 10.1007/s11581-019-03100-7	2.961
36.	J.B Arul Joseph Helen Therese, K Selvakumar, R Gayathri, <b>M Ramesh Prabhu*</b> and P Sivakumar, In situ polymerization of poly aniline—SPEEK/PMA-based proton exchange membrane for DMFC application (2019), <i>Journal of Thermoplastic Composite Materials</i> , DOI: 10.1177/0892705719835293	3.33
37.	R. Sasikumar, K. Selvakumar, <b>MR. Prabhu</b> , Sethuraman, V, Studies on proton conducting polymer electrolytes based on poly(ethylene oxide)/poly(vinyl pyrrolidone) with NH <sub>4</sub> SCN, (2019), <i>Journal of the Indian Chemical Society</i> ISSN: 0019-4522. 113-117	0.284
38.	G. Sowmya, <b>M.Ramesh Prabhu*</b> , Fabrication of blend polymer electrolyte membrane with poly (amide imide)-sulfonated poly (ether ether ketone) for microbial fuel cell (2018), <i>Materials Research express</i> , Doi.org/10.1088/2053-1591/aaf2b9	1.941
39.	S. Ponmani, <b>M.Ramesh Prabhu*</b> , Sulfonate based ionic liquid incorporated polymer electrolytes for Magnesium secondary battery (2018), <i>Journal of Polymer plastics-technology and engineering</i> , Doi.org/10.1080/03602559.2018.1520259	3.267
40.	S. Ponmani, <b>M. Ramesh Prabhu*</b> , Development and study of solid polymer electrolytes based on PVdFHFP/PVAc: Mg (ClO <sub>4</sub> ) <sub>2</sub> for Mg ion batteries (2018), <i>Journal of Materials Science: Materials in Electronics</i> , Doi.org/10.1007/s10854-018-9649-0	2.779
41.	S. Ponmani, J. Kalaiselvi, <b>M.Ramesh Prabhu*</b> , Structural, electrical, and electrochemical properties of poly(vinylidene fluoride-co-hexafluoropropylene)/poly(vinyl acetate)-based polymer blend electrolytes for rechargeable magnesium ion batteries (2018), <i>Journal of Solid State Electrochemistry</i> Doi.org/10.1007/s10008-	2.747

	018-3971-6	
42.	J.Kalaiselviary, <b>M.R.Prabhu*</b> , Influence of Sulfonated GO/Sulfonated bio polymer as polymer electrolyte membrane for Fuel cell application (2018), <i>Journal of material science : Materials in Electronics</i> 29(7),5525/5535	2.779
43.	K. Selvakumar, <b>M. Ramesh Prabhu*</b> , Investigation on meta-polybenzimidazole blend with sulfonated PVdF-HFP proton conducting polymer electrolytes for HT-PEM fuel cell application (2018), <i>Journal of Materials Science: Materials in Electronics</i> DOI:10.1007/s10854-018-9658-z	2.779
44.	K. Selvakumar, S. Rajendran, <b>M.Ramesh Prabhu*</b> , Influence of barium zirconate on SPEEK-based polymer electrolytes for PEM fuel cell applications (2018), <i>Ionics</i> Doi.org/10.1007/s11581-018-2613-4	2.961
45.	J. Kalaiselviary, N.Sundararajan, <b>M.Ramesh Prabhu*</b> , Preparation and characterization of Chitosan based nano composite hybrid polymer electrolyte membranes for fuel cell applications (2018), <i>Ionics</i> (24) 3555–3571 <a href="https://doi.org/10.1007/s11581-018-2485-7">https://doi.org/10.1007/s11581-018-2485-7</a>	2.961
46.	Kalaiselviary Jesuraj, <b>Ramesh Prabhu Manimuthu*</b> , Preparation and Characterization of Hybrid Chitosan/PEO–Silica Membrane Doped with Phosphotungstic Acid for PEM Fuel Cell Application (2018), <i>Polymer-plastics technology and engineering</i> Doi.org/10.1080/03602559.2018.1455862	3.267
47.	J.Kalaiselviary, <b>M. Ramesh Prabhu*</b> , Fabrications and investigation of physicochemical and electrochemical properties of heteropoly acid-doped sulfonated Chitosan-based polymer electrolyte membranes for fuel cell applications (2018), <i>Polymer Bulletin</i> Doi:10.1007-s00289-018-2445-4	2.87
48.	<b>M.Ramesh Prabhu et. al</b> , Preparation and characterization of pseudobrookite (Fe <sub>2</sub> TiO <sub>5</sub> ) Nano composite for fuel cell applications (2018), <i>International journal of Advance Engineering and Research Development</i>	5.71
49.	<b>M.Ramesh Prabhu et. al</b> , Synthesis and characterization of sulfonated chitosan / PEO based polymer electrolyte membranes for fuel cell applications (2018), <i>International journal of Advance Engineering and Research Development</i>	5.71
50.	<b>M. Ramesh Prabhu et. al</b> , Conductivity and Dielectric behavior of PVdF- HFP/PEMA – Magnesium perchlorate solid polymer electrolyte Films for Mg-ion batteries (2018), <i>International journal of Advance Engineering and Research Development</i>	5.71
51.	<b>M. Ramesh Prabhu et. al</b> , Structural and Thermal properties of	5.71

	functionalized biopolymer based polymer electrolyte membranes for fuel cell applications (2018), <i>International journal of Advance Engineering and Research Development</i>	
52.	J.Kalaiselviary, K. Selvakumar, S. Rajendran, G. Sowmya, <b>M.Ramesh Prabhu*</b> , Effect of Surface-Modified Montmorillonite Incorporated Biopolymer Membranes for PEM Fuel Cell Applications (2017), <i>Polymer Composites</i> , <a href="https://doi.org/10.1002/pc.24655">https://doi.org/10.1002/pc.24655</a>	3.171
53.	M. Sundararajan*, K.Bama, G.Selvanathan, <b>M.Ramesh Prabhu</b> , Ionic liquid- mediated: Enhanced surface morphology of silver/manganese oxide/bentonite nanocomposite for improved biological activities (2017), <i>Journal of Molecular Liquids</i> , <a href="https://doi.org/10.1016/j.molliq.2017.11.065">https://doi.org/10.1016/j.molliq.2017.11.065</a>	6.633
54.	<b>M. Ramesh Prabhu et. Al</b> Structural and morphological studies on nanocomposite polymer blend electrolytes for Li-ion battery applications (2017) <i>International Journal of ChemTech Research</i>	
55.	K. Selva kumar S. Rajendran, <b>M. Ramesh Prabhu*</b> , A Study of influence on sulfonated TiO <sub>2</sub> -Poly (Vinylidene fluoride-co-hexafluoropropylene) nano composite membranes for PEM Fuel cell application (2017), <i>Applied Surface Science</i> , Doi:10.1016/j.apsusc.2016.11.139	7.392
56.	K. SelvaKumar, J .Kalaiselviary, J.A.Janci Rani, <b>M.R.Prabhu*</b> , Development of partial Sulfonated Poly(Vinylidene Fluoride–Hexafluoride Propylene)-Montmorillonite Nano-Composite as Proton Exchange Membrane, World Academy of Science (2016), Engineering and Technology <i>International Journal of Materials and Metallurgical Engineering</i>	3.850
57.	P.Pradeepa, G.Sowmya, <b>M. Ramesh Prabhu*</b> , Influence of barium titanate nanofiller on PEO/PVdF-HFP blend-based polymer electrolyte membrane for Li-battery applications (2016), <i>J.Solid State Electrochemistry</i> , Doi: 10.1007/s10008-016-3477-z	2.747
58.	S. Ponmani, N. Anjali priya, P. Pradeepa, <b>M. Ramesh Prabhu*</b> , Effects of TiO <sub>2</sub> nanofiller incorporated polymer blend electrolytes for lithium battery applications (2016), <i>International Journal for Research in Science Engineering and Technology-Proceedings</i> , 3, 12-14.	
59.	G. Sowmya, <b>M. Ramesh Prabhu*</b> , A study on the effect of STA/APTEOS in the PVA matrix based organic/inorganic composite membranes (2016), <i>International Journal for Research in Science Engineering and Technology-Proceedings</i> , 3, 15-18.	

60.	J. Kalaiselvimary, K. Selvakumar, <b>M. Ramesh Prabhu*</b> , Structural and complex ac impedance studies on proton conducting polymer electrolytes based on Chitosan / H <sup>+</sup> -MMT (2016), <i>International Journal for Research in Science Engineering and Technology-Proceedings</i> , 3, 41-47.	
61.	K. Selvakumar, J. Kalaiselvimary, S. Rajendran, <b>M. Ramesh Prabhu*</b> , A Novel Proton Conducting Polymer Electrolytes Based on Poly (vinylidene fluoride-co- hexafluoro propylene) - Ammonium thiocyanate (2016), <i>Polymer-Plastics Technology and Engineering</i> , DOI: 10.1080/03602559.2016.1185665	3.267
62.	K. Selvakumar, M. Prabhakaran, S. Edwinraj, <b>M. Ramesh Prabhu*</b> , Perchloric acid doped fluorinated polymer membranes for fuel cell applications (2016), <i>Materials Today: Proceedings</i> , 3, 1409-1414	0.837
63.	P. Pradeepa, G. Sowmya, S. Edwinraj, G. Fareetha Begum, <b>M. Ramesh Prabhu*</b> , Influence of Al <sub>2</sub> O <sub>3</sub> on the structure and electrochemical properties of PVAc / PMMA based blend composite polymer electrolytes (2016), <i>Materials Today: Proceedings</i> , 3, 2187-2196, <a href="https://doi.org/10.1016/j.matpr.2016.04.125">https://doi.org/10.1016/j.matpr.2016.04.125</a> .	0.837
64.	P. Pradeepa, S. Edwinraj, J. Kalaiselvimary, G. Sowmya, K. Selvakumar, <b>M. Ramesh Prabhu*</b> , Structural and electrochemical properties of PEMA with the influence of MWCNT / TiO <sub>2</sub> Filler (2016), <i>AIP Conference Proceedings</i> , 1731, 110037-1 – 110037-3, <a href="https://doi.org/10.1063/1.4948058">https://doi.org/10.1063/1.4948058</a>	
65.	J. Kalaiselvimary, P. Pradeepa, G. Sowmya, S. Edwinraj, <b>M. Ramesh Prabhu*</b> , Electrical characterization of proton conducting polymer electrolyte based on bio polymerwith acid dopant (2016), <i>AIP Conference Proceedings</i> , 1728, 020419-1– 020419-4. <a href="https://doi.org/10.1063/1.4946470">https://doi.org/10.1063/1.4946470</a> .	
66.	G. Sowmya, P. Pradeepa, J. Kalaiselvimary, S. Edwinraj, <b>M. Ramesh Prabhu*</b> , Dielectric behavior of different nanofillers incorporated in PVC-PMMA based polymer electrolyte membranes (2016), <i>AIP Conference Proceedings</i> , 1728, 020413-1 – 020413-4. <a href="https://doi.org/10.1063/1.4946464">https://doi.org/10.1063/1.4946464</a>	
67.	P. Pradeepa, S. Edwinraj, G. Sowmya, J. Kalaiselvimary, K. Selvakumar, <b>M. Ramesh Prabhu*</b> , Composite polymer electrolyte based on PEO/PVdF-HFP with MWCNT for lithium battery applications (2016), <i>AIP Conference Proceedings</i> , 1728, 020397-1 – 020397-4. <a href="https://doi.org/10.1063/1.4946448">https://doi.org/10.1063/1.4946448</a> .	
68.	P. Pradeepa, S. Edwin Raj, J. Kalaiselvimary, G. Sowmya, K. Selvakumar, <i>and</i> <b>M. Ramesh Prabhu*</b> Structural and	

	electrochemical properties of PEMA with the influence of MWCNT / TiO <sub>2</sub> filler, (2016), AIP Conference Proceedings <b>1731</b> , 110037 <a href="https://doi.org/10.1063/1.4948058">https://doi.org/10.1063/1.4948058</a>	
69.	S. Edwinraj, P. Pradeepa, K. Selvakumar, S. Mekala, <b>M. Ramesh Prabhu*</b> , Electrochemical impedance and dielectric studies on PEO/PVA with NH <sub>4</sub> Cl based proton conducting polymer electrolyte (2016), <i>Journal of Chemical and Pharmaceutical Sciences</i> , 9(1), 172-174	1.187
70.	P. Pradeepa, S. Edwinraj, G. Sowmya, J. Kalaiselvi, <b>M. Ramesh Prabhu*</b> , Optimization of hybrid polymer electrolytes with the effect of lithium salt concentration in PEO/PVdF-HFP blends (2016), <i>Materials Science and Engineering B</i> , 205, 6–17	3.407
71.	P. Pradeepa, <b>M. Ramesh Prabhu*</b> , Enhancement of the electrochemical properties with the effect of alkali metal systems on PEO/PVdF-HFP complex polymer electrolytes (2016), <i>Ionics</i> , 22(6), 827-839	2.961
72.	P. Pradeepa, S. Edwin Raj, <b>M. Ramesh Prabhu*</b> , Effects of ceramic filler in Poly vinyl alcohol / Poly ethyl methacrylate based polymer blend electrolytes (2015), <i>Chinese Chemical Letters</i> , 26(9), 1191-1196, DOI:10.1016/j.ccl.2015.05.007	8.455
73.	P. Pradeepa, K. Selvakumar, S. Edwinraj, G. Sowmya, <b>M. Ramesh Prabhu*</b> , Preparation and characterization of MWCNT nanofiller incorporated polymer composite for lithium battery applications (2015), <i>AIP Conference Proceedings</i> , 1665, 110011-1 – 110011-3. DOI: 10.1063/1.4918067	
74.	P. Pradeepa, <b>M. Ramesh Prabhu*</b> , Investigations on the addition of different plasticizers in (PVdF-HFP) / PEMA polymer blend electrolyte system (2015), <i>International Journal of ChemTech Research</i> , 7 (4), 2077 – 2084.	
75.	K. Selvakumar, <b>M. Ramesh Prabhu*</b> , FTIR and <sup>1</sup> H NMR Study on PAN/NH <sub>4</sub> SCN Based Fuel cell Applications (2014), <i>International Journal of ChemTech Research</i> , 6(14), 5740-5744.	
76.	<b>M. Ramesh Prabhu</b> , S. Rajendran*, Effects of addition of BaTiO <sub>3</sub> nano particles on the conductivity of PVdF/PMMA based polymer blend electrolytes (2013), <i>Journal of Engineering Inventions</i> , 2, 49- 53.	3.15
77.	<b>M. Ramesh Prabhu</b> , Synthesis and characterization of solid polymer blend electrolytes based on PEMA (2010)	
78.	S. Rajendran*, V. Shanthi Bama, <b>M. Ramesh Prabhu</b> ,	2.961

	Preparation and characterization of PVAc-PMMA based solid polymer blend electrolytes (2013), <i>Ionics</i> , 16, 283 -287.	
79.	S.Rajendran*, V.Shanthi Bama, <b>M.RameshPrabhu</b> , Effect of lithium salt concentration in PVAc/PMMA based gel polymer electrolytes (2010), <i>Ionics</i> , 16, 27-32.	2.961
80.	S.Rajendran*, <b>M.RameshPrabhu</b> , Effect of different plasticizer on structural and electrical properties of PEMA-based polymer electrolytes (2010), <i>Journal of Applied Electrochemistry</i> , 40, 327-332	2.873
81.	S.Rajendran*, <b>M.Ramesh Prabhu</b> , M.Usha Rani (2008), Li ion conduction behaviour of hybrid polymer electrolytes based on PEMA, <i>Journal of Applied Polymer Science</i> , 110, 2802-2806.	3.125
82.	S.Rajendran*, <b>M.Ramesh Prabhu</b> , M.Usha Rani, Ionic conduction in Poly(vinylchloride)/Poly(ethyl methacrylate) based polymer blend electrolytes complexed with different lithium salts (2008), <i>Journal of Power Sources</i> , 180, 880-883.	9.794
83.	S.Rajendran*, <b>M.Ramesh Prabhu</b> , M.Usha Rani, Characterization of PVC/PEMA based polymer blend electrolytes (2008), <i>International Journal of Electrochemical Science</i> , 3, 282- 290.	1.765
84.	<b>M.Ramesh Prabhu*</b> , D.Nagajothi (2014), Studies on electrical conductivity and thermal behaviour of PVAc / PVDF-HFP/ Al <sub>2</sub> O <sub>3</sub> polymer blend electrolytes, <i>Research Teaching Learning letters</i> , 14(1), 19-24	
85.	<b>M.Ramesh Prabhu*</b> , G.Sowmya, K.Selvakumar (2014), Effect of Different Nanoparticles in PMMA / PVC Based Composite Polymer Electrolytes, <i>Research Teaching Learning letters</i> , 14 (1), 12-18.	
86.	P.Pradeepa, M.Priya, <b>M.Ramesh Prabhu*</b> (2014), Preparation and Characterisation of TiO <sub>2</sub> Nano filler incorporated Polymer Composite for Li Battery Applications, <i>Research Teaching Learning letters</i> , 14 (1), 6 - 11.	
87.	S.Edwinraj, S.Benazir, <b>M. Ramesh Prabhu*</b> (2014), Investigations of Effect of Double Plasticizers in PEMA-PVC Based Gel Polymer Blend Electrolyte, <i>Research Teaching Learning letters</i> , 14 (1), 1- 5.	
88.	<b>M.Ramesh Prabhu</b> , S.Rajendran* (2013), Investigations on PVC / PMMA blends with various lithium salts, <i>Indian Journal of Research</i> , 2, 307-309	2.061

National Conferences : 09  
International Conferences : 06  
Invited Lectures : 05

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