

NEHRU MEMORIAL COLLEGE (AUTONOMOUS)
PUTHANAMPATTI-621007

STAFF PROFILE

NAME OF THE STAFF : Dr.A.JAGADEESAN
DESIGNATION : Assistant Professor
DEPARTMENT : Physics



1. CONTACT

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2. ACADEMIC QUALIFICATIONS

Degree	College/University/Board	Year of Passing/ Awarded
PhD	Periyar EVR College, Trichy	2012-2020
CSIR-NET	CSIR	2014
M.Phil	St.Joseph's College, Trichy	2008-2009
PGDCA	BDPS- PVT Limited, Trichy	2006-2007
M.Sc	Jamal Mohamed College, Trichy.	2006-2008
B.Sc	Bishop Heber College, Trichy	2003-2006
HSc	Vivekanantha Hr Sec School, Thirupparaithurai	2001-2003
SSLC	Rathna Hr Sec School, pettavaithalai	2000-2001

3. TEACHING EXPERIENCE

S. No.	Institution	Duration	No. of Years	
			UG	PG
1	Nehru Memorial College	2009-till	12	12

4. RESEARCH EXPERIENCE (in years) : 9 years

5. AREA OF RESEARCH : Solid State Ionics

6**. RESEARCH GUIDANCE (In Numbers)

Program of Study		Completed	Ongoing
Project	PG	21	-

7**. PUBLICATION(S) (In Numbers)

Journal(s)	
International	National
4	2

Cumulative Impact Factor (as per JCR)	14.690
h-index	3
Total Citations	20

8**. PRESENTATION(S) (In Numbers)

Events	National
Conference(s)	4

9**. PARTICIPATION (In Numbers)

Events	National
Conference(s)	4
Seminar(s)	9
Workshop(s)	2

10**. PROFESSIONAL DEVELOPMENT (In Numbers)

Orientation Programme(s)	Refresher Course(s)	Faculty Development Programme(s)	Online Course(s)
2	1	10	2

21. DETAILS OF PUBLICATIONS

(a) JOURNAL(S)

S. No	Name of the author/s	Title of the paper with e-link	National/ International	Name of journal	Volume Page No & Year	ISSN
1	A.Jagadeesan, M. Sasikumar, R. Jeevani, H. A. Therese, N. Ananth, P. Sivakumar	“Fabrication of BaTiO₃ ceramic filler incorporated PVC-PEMA based blend nanocomposite gel polymer electrolytes for Li ion battery applications”	International	Journal of Materials Science: Materials in Electronics	(2019) 30:17181-17194	0957-4522
	A. Jagadeesan, M. Sasikumar, R. Hari Krishna, N. Raja, D. Gopalakrishna, S. Vijayashre and P Sivakumar	High electrochemical performance of nano TiO₂ ceramic filler incorporated PVC-PEMA composite gel polymer electrolyte for Li-ion battery applications	International	Mater. Res. Express	(2019) 105524	2053-1591
	M. Sasikumar, A. Jagadeesan, M. Raja, R. Hari Krishna and P. Sivakumar,	The effects of PVAc on surface morphological and electrochemical performance of P(VdF-HFP)-based blend solid polymer electrolytes for lithium ion-battery applications	International	<i>Ionics</i>	25,2171-2181 (2019).	1862-0760
	M. Sasikumar, M. Raja, R. Hari Krishna, A. Jagadeesan, P. Sivakumar and S. Rajendran	Influence of Hydrothermally Synthesized Cubic-Structured BaTiO₃ Ceramic Fillers on Ionic Conductivity, Mechanical Integrity, and Thermal Behavior of P(VDF-HFP)/PVAc-Based Composite Solid Polymer Electrolytes for Lithium-Ion Batteries	International	<i>J. Phys. Chem. C</i>	122, 25741-25752 (2018).	1932-7447
	P.Sivakumar, M.Gunasekaran, M.Sasikumar, A.Jagadeesan	PVDF-HFP Based Porus Polymer Electrolyte For Lithium Battery Applications	International	International Journal of Science and Research	2014	2319-7064

22. DETAILS OF PRESENTATION(S)

(Conference(s) / Seminar(s))

S. No.	Name of the Paper	Name of the Conference / Seminar	National/ International	Place	Duration/ Date
1	Electrochemical studies on PVAc based Solid Polymer Electrolytes for Li Ion Battery Applications	ICNT	International	Halida	2015
2	PVdF-HFP/PEMA Based Solid Polymer Electrolytes for Li-Ion Battery Applications	ICNT	International	Halida	2015
3	PVDF-HFP based porous Polymer electrolyte for Batteries	National Seminar On "Recent Trends in Crystal Growth & Nano Materials"	National	National college, Trichy	Aug 7-9, 2014.

23. DETAILS OF PARTICIPATION

Conferences/ Workshops/Seminars attended:

S.No.	Name of the Conference	Sponsored by	Conducted by	Place	Duration/Date
1	National workshop on Applications of Radiations and Radio isotopes	-	St Joseph College, Trichy	Trichy	15.02.2008
2	National conference on Nano material for energy conversion and consevation	-	Bishop Heber College, Trichy	Trichy	26.03.2009
3	National	-	Nehru		

	workshop on Nonlinear physics: theory, experiments & applications		Memorial College, Puthanampatti	Trichy	29-31.03.2010
4	State level seminar on Embedded systems and its applications	-	Nehru Memorial College, Puthanampatti	Trichy	13.03.2012
5	Seminar on Examination Reforms	UGC	Nehru Memorial College, Puthanampatti	Trichy	15.03.2012
6	National seminar on Recent Trends and challenging in Lithium Ion Batteries fabrication	DRDO	Kongu Engineering College, Perundurai, Erode.	Erode	19.12.2012
7	Seminar on Examination Reforms	UGC	Nehru Memorial College, Puthanampatti	Trichy	16-02-2015
8	Workshop on Modern Analytical Techniques	-	National College, Trichy	Trichy	18-20.02.2013
9	National seminar on Recent Advances in Materials and its impact (NSRAMI-2013)	-	Srimad Andavan Arts and Science college, Trichy	Trichy	20.12.2013
10	INUP Familiarization workshop on Nanofabrication Technologies	INUP	Centre for nano science and Engineering	IISc Bangalore	18-20.05.2015
11	Second Hands on experimental workshop on characterization techniques	CSAR	Centre for scientific and Applied Research	PSN college of Engineering and Technology Tirunelveli	08-09, October 2015

12	Outcome based education: Mapping and Rubrics	UGC	Nehru Memorial College, Puthampatti	(online) Trichy	20 th and 21 st May 2021
13	Role of materials in Electric Vehicles	AICTE Training And Learning Academy	PDA college of Engineering	(Online) Bangalore	07-11 June 2021
14	Recent Trends in Electric Vehicles and Renewable energy system	AICTE Training And Learning Academy	Arasu Engineering College	(Online) Kumbakonam	21-25 June 2021
15	Nano materials and Nano mechanics and their applications in devices and sensors	AICTE Training And Learning Academy	Indian Institute of Technology(IIT)	(online) Hyderabad	28.06.2021 to 02.07.2021
16	Technology Important Materials Evolution-TIME 2021	Department of Science and Humanities	Er. Perumal Manimekalai college of Engineering	(online) Hosur	21 st and 22 nd May 2021
17	Challenges and Opportunities	UEM	Federal university,	(online) Brazil	17 th June 2021
18	An Overview to Patents for Startups	Department of Mechanical	Graphic Era Deemed to be University	(Online) Dehradun	21 st June 2021

		cal Engi neeri ng	y		
19	Approaches for system Analysis using MATLAB	Depart ment of EEE	RAAK college of Engineeri ng and Technolo gy	(Online) Puducherry	02 July 2021

M.Sc., Guidance:

S.No	Name	Roll No	Year	Title
1	S. Saranya	(P11P3459)	2013	Nano-size SiO ₂ ceramic filler incorporated PVAc/PVdF-co-HFP based composite solid polymer electrolyte for lithium ion battery applications.
2	K.Kaseeswari	(P11P3456)	2013	Characterization of the solid polymer electrolyte based on the blend of poly(vinyl chloride) for lithium Ion Battery applications.
3	T.Jayaprakasam	(P11P3462)	2013	Conductive performance of solid polymer electrolytes based on PVdF/LiClO ₄ for battery applications.
4	S.Mayakrishnan	(P12P3500)	2014	Investigation on polyvinyl acetate supported and Nano-sio ₂ doped poly(ethyl methacrylate) based solid polymer electrolyte for lithium ion battery applications.
5	M.Gayathri	(P12P3482)	2014	Increased Lithium ion conductivity in (PVAc) LiClO ₄ solid polymer electrolyte with MnO ₂ ceramic filler for battery applications.
6	S.Hemalatha	(P12P3483)	2014	Effect of ceramic oxide on ionic conductivity enhancement in the solid polymer electrolyte for battery applications.
7	M.Indhira	(P12P3484)	2014	Enhanced ionic conductivities in composite polymer electrolytes by using propylene carbonate as plasticizer for lithium battery application.
8	V.Sivaranjani	(P12P3494)	2014	Preparation and characterization of polymer electrolyte with two different ceramic oxides
9	V.Rathika	(P13P3525)	2015	Enhanced Ionic conductivities in solid polymer electrolytes using different plasticizer for lithium battery

				applications
10	T.Kalaivani	(P13P3520)	2015	Preparation and characterization of PVC-PEMA based solid polymer electrolyte for lithium Batteries
11	D.Parameshwari	(P14P4102)	2016	Nano composite based solid polymer electrolyte for battery applications
12	S.Sivesh	(P14P4106)	2016	Enhancement of Lithium ion conductivity on solid polymer for Battery Applications
13	V.Vijayarathinam	P15P0011	2017	Effect of TiO ₂ on the ionic conductivity of a composite solid polymer electrolyte based on PVC/PEMA for lithium ion batteries
14	M.Madhusri	P15P0007	2017	Enhanced ionic conductivity of solid polymer electrolytes using various plasticizer for lithium ion battery applications
15	K. Hemalatha	2K16703	2018	Ceramics effect on the ionic conductivity of PVC- PEMA based electrolytes in Lithium batteries
16	C. Sangeetha	2K16712	2018	Plasticizer effect on the ionic conductivity of PVC-PEMA based solid polymer electrolytes for lithium ion battery application
17	A. Kowsalya	(2K17707)	2019	A High-Performance Poly (ethylene Methacrylate)/Poly vinyl chloride Based Composite Solid Electrolyte for All Solid-State Lithium Battery
18	E. Malathi	(2K17708)	2019	Improving Ionic Conductivity on Composite Polymer Electrolyte for Lithium-Ion Battery Applications
19	B. Vetrivel	(2K18702)	2020	Preparation and Characterization of Polymer composite electrolyte containing Nano Titanium Oxide filler for Lithium ion Battery Applications
20	N. Santhiya	(2K18711)	2020	Nano Sized Oxide Filled composite solid Polymer Electrolyte for Rechargeable Lithium Ion Batteries
21	S.Priyadharsini	(P19P0009)	2021	Lithium-ion conductivity in solid polymer electrolyte with MnO ₂ ceramic filler for battery applications

Details of Orientation Courses attended

Sl.No	Name of the Course	Institution Offered	Period
1	Faculty Orientation Programme	Internal Quality Assurance Cell,	13-06-2016

	for Teachers	Nehru Memorial College, Puthanampatti	To 14-06-2016 (2 Days)
2	Orientation Programme	UGC Sponsored	18-05-2018 to 14-06- 2018 (28 Days)
3	NSS Orientation Programme	Empanelled training institution, madras school of social work, Chennai	17.07.2019 to 23.07.2019 (7 Days)