

NEHRU MEMORIAL COLLEGE (AUTONOMOUS)

PUTHANAMPATTI-621007

STAFF PROFILE



NAME OF THE STAFF : Dr. V. Pandiyan
DESIGNATION : M.Sc.,Ph.D.
DEPARTMENT : Physics

1. CONTACT

Address : Department of Physics
Nehru memorial college
Contact Phone (Office) :
Contact Phone (Mobile) :9159121779
Contact e-mail(s) : pandiyanphy@gamil.com
Skype id : Nil

2. ACADEMIC QUALIFICATIONS

Degree	College/University/Board	Year of Passing/ Awarded
B.Sc	Pachaiyappa's College, Chennai,	2003
M.Sc	Annamalai University, Annamalainagar, Chidambaram.	2005
P.hD.	Annamalai University, Annamalainagar, Chidambaram.	2011

3. TEACHING EXPERIENCE

S. No.	Institution	Duration	No. of Years	
			UG	PG
1	Nehru Memorial College	2012-2020	8	8

4. RESEARCH EXPERIENCE (in years) :

14-Years

5. AREA OF RESEARCH :

Nano Technology and Thermodynamics

6. RESEARCH GUIDANCE (In Numbers)**

Program of Study		Completed	Ongoing
Research	Ph. D.	1	6
	M. Phil.	13	4
Project	PG	10	2

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

Journal(s)		Proceeding(s)		Book(s) / Chapter(s) / Monograph(s) / Manual(s)
International	National	International	National	
13	-	-	-	-

Cumulative Impact Factor (as per JCR)	3.0
h-index	10
Total Citations	292

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

NIL

9. PARTICIPATION (In Numbers)**

Events	International	National	State	Regional
Conference(s)	5		5	Tamil Nadu
Seminar(s)				
Workshop(s)	1		1	Tamil Nadu
Symposium(s)				

10. PROFESSIONAL DEVELOPMENT (In Numbers)**

Orientation Programme(s)	Refresher Course(s)	Faculty Development Programme(s)	Short Term Course(s)	Online Course(s)
	2	3		

11. FUNDED RESEARCH PROJECT(S)

List of ongoing Project(s)					
S. No.	Agency	Period		Project Title	Grant Allocated (Rs. In Lakhs)
1	(DST-SERB)	From 2018	To 2021	Highly Visible Active Surface Functionalized Mesoporous XTiO_3/Nis , (X= Ba,Sr) Perovskite Nanomaterials	20 Lakhs

List of Completed Project(s)					
S. No.	Agency	Period		Project Title	Grant Allocated (Rs. In Lakhs)
1	UGC	From; 2017	To; 2019	synthesis, characterization and photophysical properties of novel perylene bisimide/porphyrin derivatives activated inorganic semiconductors for effective environmental remediation	2.95 Lakhs

12. DISTINCTIVE ACHIEVEMENT(S) / RECOGNITION(S) / AWARD(S)

NIL

13. OVERSEAS EXPOSURE / VISIT(S) (Academic & Research)

NIL

14. EVENT(S) ORGANIZED

NIL

15. ACADEMIC / ADMINISTRATIVE RESPONSIBILITIES HELD

NIL

16. SERVED AS A RESOURCE PERSON (INVITED TALKS / GUEST LECTURES)

S.No	Name of the College	Title	Place	Date
1	Cauvery College for Women	Caring for All Life Under the Sun	Tiruchirappalli	11/09/2018
2	Thanthai Hans Roever College	Nanotechnology and its Career Opportunities	Perambalur	28/02/2019
3	Sri Saratha College for Women	Association Valediction Function	Siruvachur	31/01/2020

17. DETAILS OF MEMBERSHIP

Editorial Board	NIL
Referee (Peer Reviewed Journal)	NIL
Academic Bodies (Board of studies)	NIL
Professional Bodies	NIL

18. EXTENSION ACTIVITIES / OUTREACH PROGRAMME

NIL

19. ANY OTHER ACTIVITIES

Articles published in Newspaper(s) / Magazine(s)	NIL
Products Developed	NIL
Number of Ph. D. thesis evaluated	NIL
Number of Ph. D. Public Viva Voce Examination conducted	NIL

20. DETAILS OF RESEARCH GUIDANCE

Ph. D. (Completed)			
S. No.	Name	Title of thesis	Year of award
	A Shakila	A STUDY ON THERMODYNAMIC PROPERTIES OF CERTAIN ORGANIC BINARY LIQUID MIXTURES AT DIFFERENT TEMPERATURES	2020
M. Phil. (Completed)			
S. No.	Name	Title of thesis	Year of award
1	Edwin Jerald	Thermodynamic and Acoustic Properties of binary mixtures ii. Diisopropyl Ethers	2014
2	A. Ayyasamy	Thermodynamic and Acoustic Properties of binary mixtures Oxoline with NN- and N-Diethylamine at different temperatures	2014
3	S. Borcin Anitha Mary	Structural and Optical Studies Of ZnO	2014
4	S. Silambrasan	Thermodynamic and Acoustic Properties of binary mixtures of THF with Benzylamine	2015
5	R. Raju	Thermodynamic and Acoustic Properties of binary mixtures of ethylene glycol dimethyl etc.	2015
6	P. Sivakumar	Thermodynamic and Acoustic Properties of binary mixtures of benzylamine etc.	2016
7	N. Prabaharan	Thermodynamic and Acoustic Properties of binary mixtures of etc.	2016
8	P. Senthil Kumar	Thermodynamic and Acoustic Properties of binary mixtures of benzylamine with acetates	2016
9	V. Nagewari	Thermodynamic and Acoustic Properties of binary mixtures of 1,2 Dichlorobenzene etc.	2018

10	N. Hemalatha	Thermodynamic and Acoustic Properties of binary mixtures of Methoxy ethanol etc.	2018
11	V.Paul Pandiyan	Thermodynamic and Acoustic Properties of binary mixtures of benzylamine and polyolithionite	2018
12	R.Sownthariya	Thermodynamic and Acoustic Properties of binary mixtures Of THF and Various temperatue	2018
13	R.Guremoorthy	Thermodynamic and Acoustic Properties of binary mixtures of benzyl alchol with Butyl amine	2019
14	V.Ramesh	Physicochemical acoustic properties of methyl acetate and ethyl acetate etc.	2019
15	T.Umashankar	Physicochemical acoustic properties of benzyl alcohol and triethyl amine etc.	2019

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	B.Subash, B Krishnakumar, V Pandiyan, M Swaminathan, M Shanthi	Synthesis and characterizati on of novel WO ₃ loaded Ag-ZnO and its photocatalytic activity https://www.sciencedirect.com/science/article/pii/S0025540812007660	International	Materials Research Bulletin	48 (1), 63-69- (2014)	0025-5408
2	B.Krishnakumar, A Balakrishna, SA Nawabjan, V Pandiyan, A Aguiar,	Solar and visible active amino porphyrin/SiO ₂ ZnO for the	International	Journal of Physics and Chemistry of Solids	111, 364-371- (2017)	0022-3697

		degradation of naphthol blue black. https://www.sciencedirect.com/science/article/pii/S0022369717309290				
3	B.Krishnakumar, S Kumar, JM Gil, V Pandiyan , A Aguiar, AJFN Sobral	Highly active P25@ Pd/C nanocomposite for the degradation of Naphthol Blue Black with visible light. https://www.sciencedirect.com/science/article/pii/S0022286017313297	International	Journal of Molecular Structure	1153, 346-352- (2018)	0022-2860
4	B.Krishnakumar, R Hariharan, V Pandiyan , A Aguiar, AJFN Sobral	Gelatin-assisted g-TiO ₂ /BiOI heterostructure nanocomposites for azo dye degradation under visible light https://www.sciencedirect.com/science/article/pii/S2213343718303439	International	Journal of environmental chemical engineering	6 (4), 4282-4288 (2018)	2213-3437
5	A Shakila, S Ravikumar, V Pandiyan , R Gaba	Influence of temperature on thermo physical properties of binary mixtures of ethyl acrylate and alkyl amines: An experimental and theoretical approach.	International	Journal of Molecular Liquid	265, 544-555 (2018)	0167-7322

		https://www.sciencedirect.com/science/article/pii/S0167732218319226				
6	R Raju, S Ravikumar, K Sivakumar, M Raveendra, V Pandiyan	Excess thermodynamic study of binary mixtures containing 1, 2-dichlorobenzene with aliphatic esters over the entire miscibility range ($0 < x < 1$) at temperature 303.15-318.15 K. https://www.sciencedirect.com/science/article/pii/S2405830018300363	International	Chemical Data Collections	18,41-67 (2018)	2405-8300
7	A Shakila, S Ravikumar, M Raveendra, K Sivakumar, R Raju, V Pandiyan	Thermodynamic and FT-IR study on molecular interactions between ethyl lactate with alkyl amines at different temperatures. https://www.tandfonline.com/doi/abs/10.1080/00319104.2018.1432047	International	Physics and Chemistry of Liquids	57, 117-136 (2018)	0031-9104
8	C Surya, NAA John, V Pandiyan, S Ravikumar, P Amutha, AJFN Sobral	Costus speciosus leaf extract assisted CS-Pt-TiO ₂ composites: Synthesis,	International	Journal of Molecular Structure	1195, 787-795 (2019)	0022-2860

		characterization and their bio and photocatalytic applications. https://www.sciencedirect.com/science/article/pii/S0022286019307525				
9	C Surya, NAA John, V Pandiyan, P Amutha, AJF do Nascimento Sobral	Antioxidant (in vitro), Antidiabetic (in vitro) and Photocatalytic Activity of Costus speciosus Leaf Extract Assisted CS-Ag-TiO ₂ Composites https://link.springer.com/article/10.1007/s13530-019-0404-6	International	Toxicology and Environmental Health Sciences	11 (3), 197-209 (2019)	2005-9752
10	A Shakila, S Ravikumar, V Pandiyan , R Gaba	Thermodynamic properties of binary liquid mixtures containing aromatic alcohol and aliphatic amines at different temperatures. https://www.sciencedirect.com/science/article/pii/S0167732219310736	International	Journal of Molecular Liquid	285, 279-287 (2019)	0167-7322
11	R Rajalakshmi, S Ravikumar, K Sivakumar, M Raveendra, V Pandiyan	Role of chain length in molecular interactions between monoethanolamine and 2-alkoxyethanol	International	Chemical Data Collections	20, 100202 (2019)	2405-8300

		s at various temperatures. https://www.sciencedirect.com/science/article/abs/pii/S2405830018301800				
12	R Rajalakshmi, S Ravikumar, K Sivakumar, V Pandiyan	Excess thermodynamic properties of intermolecular interactions in binary liquid mixtures of furfural with alkyl acetates (C1-C5) at different temperatures, https://www.sciencedirect.com/science/article/abs/pii/S2405830019303039	International	Chemical Data Collections	24, 100299 (2019)	2405-8300
13	R Rajalakshmi, S Ravikumar, R Gaba, V Pandiyan	Thermodynamic properties and IR studies of binary mixtures of benzyl amine with alkyl esters at different temperatures https://www.sciencedirect.com/science/article/abs/pii/S2405830019302708	International	Chemical Data Collections	24, 100278 (2019)	2405-8300

(b) PROCEEDING(S)

NIL

(C) BOOK(S) / CHAPTER(S) / MONOGRAPH(S) / MANUAL(S)

NIL

22. DETAILS OF PRESENTATION(S)

(Conference(s) / Seminar(s))

NIL

23. DETAILS OF PARTICIPATION

(Conference(s) / Seminar(s) / Workshop(s) / Symposium(s))

S.No.	Name of the Conference	Sponsored by	Conducted by	Place	Duration/Date
1	Emerging Trends in Materials and Methods	NCETMM 2015	KSR-College	Tiruchengode	7 th October-2015
2	Fourth national Instrumentation Techniques in Physics	PINTECH-2015	SCSVMV University	Kanchipuram	6 th November-2015
3	Recent Initiatives on Energy and Environmental Research	NIT-TRICHY	NIT	Tiruchichirappalli	16 th February-2016
4	International conference on Advanced Material & its Application	ICAMA-2018	Roever College	Perambalur	13,14 August-2018
6	National Conference on Advanced Functional Materials	NCAFM 2020	National College	Tiruchichirappalli	13 th February 2020

24. DETAILS OF PROFESSIONAL DEVELOPMENT**(Orientation / Refresher Course / FDP / Short Term Course / Online Course)**

S. No.	Name of the events	Sponsored by	Conducted by	Place	Duration/ Date
Orientation Programme					
1	Physics	UGC(HRDC)	Bharathiar University	Coimbat or	06/05/2015 To 02/06/2015
2	Internal Quality assurance	UGC	Nehru Memorial College	Puthana mpatti	June,2016
Refresher Course					
	Material Science (Interdisciplinary)	UGC(HRDC)	Bharathidasan University	Trichy	02/11/2016 To 22/11/2016
	Physics	UGC(HRDC)	Bharathidasan University	Trichy	23/10/2019 To 05/11/2019
Faculty Development Programme					
1	Sustenance/Quality of Higher education	UGC	IQAC(NMC)	Puthana mpatti	Aug, 2015
2	Examination System	UGC	IQAC (NMC)	Puthana mpatti	March,2016
3	Effective Teaching	UGC	IQAC (NMC)	Puthana mpatti	June,2017
Short Term Course(s)					
Online Course(s)					