

State University I "A++" Grade by NAAC I 26th Rank in MoE-NIRF Maruthamalai Road. Coimbatore. Tamil Nadu - 641 046.

Dr N PONPANDIAN

Professor and Head

Department of Nanoscience and

Technology

Bharathiar University Coimbatore, 641046

Tamil Nadu

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Research Area

- Water Splitting
- Supercapacitors
- Sensors
- Solar Cells

Courses Teaching

- Physics of Nanomaterials
- Nanoelectronuics and Nanophotonics
- Environmental Sustainability of Nanomaterials
- Nanomagnetism

Research Experience: 25 Teaching Experience: 17

Research Credentials (as on April 2025 – Source: Google scholar)

H-index: 62 Citations: 13268 i10-index: 203

Patents: Granted: 3 Filed: 4

Publications

International Journals: 121 Books/Chapters: 23 National Journals: 7

Publication Database: 8 Conferences: 2

Career

Other Institutes

1. Designation: Post Doctoral Fellow

Institution Name: University of Neraska, Lincoln, USA

Period : October 2007 - February 2008

2. Designation : Post Doctoral Fellow

Institution Name: University of Madras, Chennai

Period: November 1996 - March 1999

3. Designation: Post Doctoral Fellow

Institution Name: Free University of Berlin, Germany

Period: May 2003 - December 2006

4. Designation: Post Doctoral Fellow

Institution Name : University of Rostock, Germany

Period: January 2007 - September 2007

5. Designation: Post Doctoral Fellow

Institution Name: Indian Institute of Science, Bangalore

Period: August 2002 - April 2003

6. Designation: Post Doctoral Fellow

Institution Name: University of Madras, Chennai

Period: April 1999 - March 2002

At Bharathiar University

1. Designation : Professor

Period : March 2014 - Till Date

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Dr N PONPANDIAN, Professor and Head, Department of Nanoscience and Technology

2. Designation : Associate Professor Period : March 2011 - February 2014

3. Designation : Reader

Period: February 2008 - February 2011

Education

D.Sc

Subject : Physical Science Institution : Alagappa University

Affiliated University: Alagappa University, Karaikudi

Year of Award: September 2024

Ph. D.

Subject : Physics

Institution: Department of Nuclear Physics

Affiliated University: University of Madras, Chennai

Year of Award: February 2003

M. Phil.

Subject: Physics

Institution: Ayya Nadar Janaki Ammal College, Sivakasi Affiliated University: Madurai Kamaraj University, Madurai

Year of Award: April 1996

M. Sc.

Subject: Physics

Institution: Ayya Nadar Janaki Ammal College, Sivakasi Affiliated University: Madurai Kamaraj University, Madurai

Year of Award: April 1995

B. Sc.

Subject: Physics

Institution: Vivekananda College, Agasteeswaram

Affiliated University: Madurai Kamaraj University, Madurai

Year of Award : April 1992

Projects

National Level

Ongoing - 3 completed - 13

Research Guidance Completed

Ph.D. - 17 Post-Doc - 3

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Ph.D. - 5 Post-Doc - 1

Institutional Responsibilities

Director, IQAC

Period :Jul 2016 - Jul 2016 Nature of Responsibility : **Controller of Examinations** Period :Jul 2023 to Till date Nature of Responsibility :

Senate Member

Period :Jul 2015 to Till date Nature of Responsibility :

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Dr N PONPANDIAN, Professor and Head, Department of Nanoscience and Technology

Standing Committee on Academic Affairs Member

Period :Jul 2015 to Till date Nature of Responsibility :

International Rankings Coordinator

Period :Jan 2018 to Till date Nature of Responsibility : AISHE – Coordinator

Period :Jan 2018 to Till date Nature of Responsibility : **Head of the Department** Period :Jul 2015 to Till date

Innovation and Incubation Centre

Period: Jul 2018 - Jul 2018 Nature of Responsibility:

Nature of Responsibility:

Institution Innovation Council - President

Period :Jul 2019 - Jul 2019 Nature of Responsibility : **RUSA - Board of Governor** Period :Apr 2018 to Till date Nature of Responsibility :

DST – FIST - Coordinator Period :Apr 2014 to Till date

Nature of Responsibility : **UGC – SAP - Coordinator**

Period :Apr 2016 to Till date Nature of Responsibility :

DST – PURSE - Member Period :Apr 2011 - Apr 2011

Nature of Responsibility:

National Institutional Ranking Framework (NIRF) - Nodal Officer

Period :Jan 2016 - Jan 2016 Nature of Responsibility :

Study-in-India (SII), MHRD - Coordinator

Period :Jan 2018 - Jan 2018 Nature of Responsibility :

UGC- Project Execution Group

Period :Jan 2019 to Till date Nature of Responsibility :

University Grants Commission - Nodal Officer

Period :Jan 2019 to Till date Nature of Responsibility :

DRDO PHASE - I Projects, Project Investigator

Period :Jul 2008 to Till date Nature of Responsibility :

DRDO PHASE - I Projects (Physics Division), Project Director (i/c)

Period :Jan 2009 to Till date Nature of Responsibility :

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Visits

1. Visiting Scientist, Institute of Experimental Physics, Free University of Berlin, Berlin, Germany (2006-12-31 - 2003-05-01)

Collaborations

- 1. Collaborative Research Project throughh UGC-DAE CSR (2010-01-01 2025-01-17)
- 2. Dr M. Manivel Raja, Scientist "E", Defence Metallurgical Research Laboratory (DMRL), Hyderabad 2010-01-01)
- 3. Dr S. Amirthapandian, Scientiic Oficer "E", Indira Gandhi Centre for Atomic ResearchE" 2009-06-01)
- 4. Dr T. Thangadurai, Professor, Centre for Nanoscience and Technology, Pondicherry University, Puducherry 2010-07-01)
- 5. Dr V. Ganesh, Principal Scientist, Central Electrochemical Research Institute (CECRI), Karaikudi` 2011-08-01)
- 6. Dr A. Stephen, Professor, Department of Nuclear Physics, University of Madaras, Guindy Campus, Chennai 2008-10-01)
- 7. Prof. Dr Kamanio Chattopadhyay, Department of Materials Engineering, Indian Institute of Science, Bengaluru 2008-04-01)

Programs organized

- 1. International Seminar (2012-01-09 2009-01-09)
- 2. Workshop (2009-03-19 2009-03-21)
- 3. National Conference (2010-02-05 2010-02-04)
- 4. National Conference (Second) (2011-03-25 2011-03-26)
- 5. Refresher Course (2011-12-21 2011-01-01)
- 6. National Conference (Third) (2013-03-26 2013-03-25)
- 7. National Symposium (2013-12-06 2013-12-05)
- 8. National Seminar (2014-02-28 2014-02-28)
- 9. DBT Sponsored Short Term Course (2014-10-01 2014-09-08)
- 10. Practical Training Programme (2014-12-05 2014-12-04)
- 11. Workshop (2015-09-11 2015-09-10)
- 12. National Conference (2016-10-21 2016-10-19)
- 13. Workshop (2016-10-20 2016-10-20)
- 14. Workshop (2018-02-03 2018-02-03)
- 15. Workshop (2018-04-12 2018-04-12)
- 16. Workshop (2018-08-27 2018-08-27)
- 17. Workshop (2018-10-27 2018-10-26)
- 18. Summer Training Program (2020-07-30 2020-07-15)
- 19. AICTE ATAL Academy Faculty Development Program (2020-10-09 2020-10-05)
- 20. Worksho (2020-10-15 2020-10-15)
- 21. Refresher Course (2021-02-15 2021-02-02)
- 22. Summer Training Program (2021-08-07 2021-07-20)

Patents

Granted - 3

1. Method for simultaneous detection, quantification and degradation of cigarette wastewater and its by-products using photoelectrochemical (PEC) oxidation. 09-2023 453005 Dr. C. Viswanathan, H. Amir, Dr. N. Ponpandian

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2. BilethotidoalSiostiteiferdive Altoptinisptaly stragsstatining (Schrebetaran Entragora) Vegetetiest graceticira (Suggestation) of the Company of the Compa

Filed - 4

- 1. Biosensor Device for Detection of BRCA1 Gene Mutation 05-2022 202241029462 Dr. K. P. Divya, Ms. S. Keerthana, Dr. N. Ponpandian
- 2. Pioglitazone nanoparticles functionalized with RGD and P3 peptides and compositions thereof for adipocyte specific drug delivery 01-1970 202241017503 N. Ponpandian
- 3. Statin Nanofibers Coated With Silver Nanoparticles For Diabetic Wound Healing Associated With Inf. 01-1970 202341050930 KRISHNAMURTHY, Praveen Thaggikuppe, GARIKAPATI, Kusuma Kumari, AMMU, Veera Venkata Vajra Ravi Kiran, BABU, Basuvan, PONPANDIAN, Nagamony
- 4. Water-Splitting Reactor for Generating Hydrogen Fuel by Enhancing a Photoelectrochemical Water Splitting Process using Nanomaterials 07-2024 202441051274 Dr. N. Ponpandian, Dr. R. Rajalakshmi

Selected Publications

1. The intriguing bifunctional effect of strong metal support interaction (SMSI) and hydrogen spillover effect (HSPE) for effective hydrogen evolution reaction

Applied Catalysis B: Environmental 339, 123089 (2023). (December 2023) R. Rajalakshmi, G. Srividhya, C. Viswanathan, N. Ponpandian

2. A nanocomposite of NiFe2O4–PANI as a duo active electrocatalyst toward the sensitive colorimetric and electrochemical sensing of ascorbic acid

Nanoscale Advances 2, 3481 – 3493 (2020) (January 2020) D Navadeepthy, M Thangapandian, C Viswanathan, N Ponpandian

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