

The American College, Madurai  
FACULTY PROFILE

Name : Dr. D.DURAI MANOHARADOSS PRABAHARAN

Department : Physics

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**Educational Qualification:**

CLASS/COURSE	NAME OF THE INSTITUTION	BOARD OF STUDY/ UNIVERSITY	YEAR COMPLETED
Ph.D (Physics)	Anna University Chennai	Anna University Chennai	2018
MSc (Physics)	NMSSVN College, Madurai	Madurai Kamaraj University	1996
BSc (Physics)	The American College, Madurai	Madurai Kamaraj University	1994

**Specialisation in Teaching:**

- Non linear optics
- Solid State Physics

**Specialisation in Research:**

- X-ray Crystallography

**Research Interests:**

Optical and Electrical properties of Metal Oxide nano particles

### Any Other Work Experience:

Position held	Institution	Level	From	To	Experience
Lecturer	JeyarajChelladuraicollege,Periyakulam,Theni	UG	01.10.98	27.03.99	5months
Lecturer	SSDM college,Kovilpatti, Thotukudi	UG	23.08.99	24.09.2003	4 years
Lecturer	NMSSVNCollege, Madurai	UG & PG	25.09.2003	22.08.2008	5 years
Assistant Prof.	NPR College of Engg. &Tech.,Dindugal	UG	25.08.2008	25.04.2017	8 years 8months

### Membership in Professional Bodies:

Life Member in Indian Society for Technical Education

### Publications:

**Total :**3 papers

**International :**3 papers

### **List of Research papers published by D.DuraiManoharadossPrabaharan: International Journals**

1. 'Precipitation method and characterization of cobalt oxide nanoparticles', Applied Physics A, vol. 123, P. 264, IF - 1.694.  
**DOI: 10.1007/s00339-017-0786-8**  
**EID: 2-s2.0-85015915684**
2. 'Structural, optical, morphological and dielectric properties of cerium oxide nanoparticles', Materials Research, vol. 19, no. 2, pp. 478-482, IF - 0.8.  
**DOI: 10.1590/1980-5373-MR-2015-0698**  
**EID: 2-s2.0-84962776575**
3. 'Investigating the effect of Mn-doped CeO<sub>2</sub> nanoparticles by coprecipitation method', Applied Physics A, vol. 124, P. 86, IF - 1.694  
**DOI: 10.1007/s00339-017-1518-9**  
**EID: 2-s2.0-85040313650**

## **Conferences :**

- International Conference : 1
- National: 1

### **International Conference :**

‘Synthesis and Characterization of  $\text{MnFe}_2\text{O}_4$  Nanoparticles via Co-Precipitation Method’, CSIR sponsored International Conference on Advances in Materials Science and Engineering for Societal Applications (ICAMSE 2018), in association with NANOCAT, University of Malaya and Indian SpectroPhysics Organization (ISPA) at Centre for Nanotechnology, Academy of Maritime Education and Training (AMET) in Chennai, 2 - 3, March 2018

### **National Conference :**

‘size effect on melting temperature, Debye temperature and mean square displacements of tungsten nanoparticles’, UGC, DST, BRNS, CSIR and TNSCST sponsored National seminar on new materials research and nanotechnology, Ooty, September 2012

### **Workshops/seminars attended:**

- 1) A two – days National Level ISTE Workshop on ”Aakash for Education”, organized by NPR College of Engineering & Technology(IIT Remote Center), from 10<sup>th</sup> – 11<sup>th</sup> Nov 2012.
- 2) An eleven – days National Level ISTE Workshop on ” Engineering Thermodynamics”, organized by NPR College of Engineering & Technology(IIT Remote Center), from 11<sup>th</sup> – 21<sup>st</sup> Dec 2012.
- 3) An eleven – days National Level ISTE Workshop on ” Fluid Mechanics”, organized by NPR College of Engineering & Technology(IIT Remote Center), from 20<sup>th</sup> – 30<sup>th</sup> May 2014.
- 4) Two Day Online International Workshop on “Nanomaterials for Clean Energy and Space Astronomy (IWNCESA-2022)", organized by the Department of Physics and Ethiraj College Astronomy Club, Ethiraj College for Women, in association with The Indian Science Congress Association, Chennai Chapter, Tamil Nadu, India, on 22.02.2022 and 23.02.2022.

### **Webinars attended:**

1. International webinar on “Recent trends in advanced material science – RTAMS – 2020”, organized by Post Graduate & Research Department of Physics, The American College, Madurai on 19.06.2020

2. International webinar on “Solar Cell Technologies”, organized by Department of Physics, Jeyaraj Annapackiam college for women, Periyakulam on 12.03.2021
3. International webinar on “Sustainable Materials and Technologies for Bio and Energy Applications, (SMTBEA-2021)” during 19th, May 2021 and attended the lectures “Recent developments in photovoltaics”, by Prof. Martin A Green (Professor at the University of New South Wales, Australia) and “Current Scenario and Future Scope of Solar Energy: mc-Si Solar cell”, By Prof. P. Ramasamy Organized by SSN Institutions, kalavakkam, Chennai 603110.
4. International webinar on “Sustainable Materials and Technologies for Bio and Energy Applications, (SMTBEA-2021)” during 19th, May 2021 and attended the lectures “Two Dimensional Nano Structured Materials for Energy Storage Applications”, by Prof. R. Jayavel and “Surface Stabilizing and Functionalizing Inorganic Nanocrystals via Metal-Ligand Coordination”, By Prof. Hedi Mattoussi, Organized by SSN Institutions, kalavakkam, Chennai 603110.
5. International webinar on “Sustainable Materials and Technologies for Bio and Energy Applications, (SMTBEA-2021)” during 20th, May 2021 and attended the lectures “Microfluidic Droplet and Particle Technologies for Chemistry and Biology”, by Prof. Steve Werely, Perdue University and “Some interesting applications of magnetic nanoparticle dispersions for heat transfer, sensors and therapeutics”, By Prof. John Philip, IGCAR Organized by SSN Institutions, kalavakkam, Chennai 603110.
6. International webinar on “Sustainable Materials and Technologies for Bio and Energy Applications, (SMTBEA-2021)” during 20th, May 2021 and attended the lectures “Biomedical Applications of Nanofibers”, by Dr. P. Gopinath (IIT, Roorkee) and “Advancement in Cancer Therapy through Modulation of Nano-bio Interface”, By Prof. Devika Chithrani (University of Victoria, Canada) Organized by SSN Institutions, kalavakkam, Chennai 603110.
7. International webinar on “Sustainable Materials and Technologies for Bio and Energy Applications, (SMTBEA-2021)” during 21st, May 2021 and attended the lectures “Twin boundary Formation mechanism and refinement of periodically twinned structure in borate crystal”, by Dr. Kensaku Maeda (Institute of Materials Research, Tohoku University, Japan), and “Application of machine learning to Czochralski growth of Si”, By Dr. Kentaro Kutsukake (RIKEN) Organized by SSN Institutions, kalavakkam, Chennai 603110.

8. International webinar on “Sustainable Materials and Technologies for Bio and Energy Applications, (SMTBEA-2021)” during 21th, May 2021 and attended the lectures “Numerical modeling in growth of oxide crystals from the melt”, by Dr. Andrei Smirnov (STR Group, Russia) and “Nanostructured Metal Oxide Thin Films for Sensor and Optoelectronic Applications”, By Dr. Jiban Podder (Bangladesh University of Engineering and Technology (BUET)), Organized by SSN Institutions, kalavakkam, Chennai 603110.
9. National webinar on “Mobile Astronomy”, organized by Post Graduate & Research Department of Physics, The American College, Madurai on 28.07.2021