

# The American College, Madurai

## FACULTY PROFILE

**Name:** Dr. R. Kennedy  
**Designation:** Assistant professor  
**Department:** Physics  
**Date of Joining:** 23.08.2021  
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### I. Educational Qualification:

Degree	Subject	College / University & Place	Year Completed
Ph.D	Physics	St.Xavier's College / Manonmanium Sundaranar University , Tirunelveli	2015
M.phil	Physics	St.Joseph's College, Trichy	2009
B.Ed	Physical Education	St.Xavier's College, Tirunelveli	2008
M.Sc	Physics	Arul Anandar College, Karumathur	2007
B.Sc	Physics	Arul Anandar College, Karumathur	2005

### II. Specialisation in Teaching:

1. Solid State Physics
2. Material Science
3. Crystal Growth and Techniques
4. Statistical Physics

### III. Specialisation in Research:

**Synthesis and Characterization of Crystal growth and Thin film technology.**

#### IV. Research Interests:

1. Metal organic frame work
2. Hydrothermal synthesis of Multiferroic crystals for memory applications.
3. Photocatalytic activity for waste water treatment

#### V. Any Other Work Experience:

Designation	Institution / Company	Year - From (month/year) To (month/year)
ST.JOSEPH'S COLLEGE PB 27094, 36 LALBAGH ROAD BANGALORE-560027 INDIA	ASSISTANT PROFESSOR IN PHYSICS	15.06.2015 To 15.06.2020
ASAN MEMORIAL COLLEGE OF ENGINEERING AND TECHNOLOGY, CHENGALPATTU - 603 001. TAMILNADU, INDIA	ASSISTANT PROFESSOR IN PHYSICS	10.12.2012 To 14.12.2014
MANONMANIAM SUNDARANAR UNIVERSITY ABISHEKAPATTI, TIRUNELVELI, -627012 TAMILNADU, INDIA	RESEARCH SCHOLAR (FULL TIME) IN PHYSICS	9-12-2009 To 09-12-2012

**VI. Administrative /Academic Position/s (held / currently holding):**

Positions held / currently holding	Year - From (month/year) To month/year)
HOSTEL WARDEN	15.06.2015 to 30.05.2017

**VII. Membership in Professional Bodies:**

1. **Indian Association of Physics Teacher ID number -748186308**
2. **Society for material Chemistry, BARC, Mumbai.**
3. **Luminescence Society of India: Karnataka Chapter (LSIKC).**

**VIII. Publications:****Articles Published in International Journals:**

1. Kennedy Ravichandran “A novel MoS<sub>2</sub> structures for electrochemical detection of 4-aminophenol” Journal of Materials Science: Materials in Electronics (2018); doi.org/10.1007/s10854-018-8539-9.
2. R. Kennedy, D. Sornadurai, K. Ganesan, and J. Jebaraj, “Structural and Piezoelectric Properties of BiFeO<sub>3</sub> Thin Films Prepared by Spin Coating Method” American Institute of Physics. 1512, 1220 (2013); doi: 10.1063/1.4791490.
3. R.kennedy, J.Jebaraj Devadasan, “Cubic Shape Cobalt Substituted Bismuth Ferrite Prepared By Hydrothermal Method” International Journal of Engineering Research & Technology, Vol. 2 Issue 11, (Nov— 2013) ISSN: 2278-01812.

**Conference / Seminar Presentations:**

1. Phase Transformation studies of Bismuth Ferrite DAE-BRNS 6th interdisciplinary Symposium on Materials Chemistry held at BARC, Mumbai, December 6<sup>th</sup> -10<sup>th</sup>, 2016.

2. Periodic Formation of Phase Pure BiFeO<sub>3</sub> Single Crystals During the Hydrothermal Crystal Growth, XVII National Seminar On Crystal Growth (XVII- NSCG), January 9-11, 2013, Department of Physics, Anna University, Chennai.
3. Millimeter Size Multiple Morphology of Co Substituted BiFeO<sub>3</sub> By One Step Hydrothermal Method, International Conference On Molecular Spectroscopy Of Advanced Materials and Biomolecules (IMSAB), August 7-9, 2012, Bishop Moore College, Mavelikara, Kerala.
4. Structural and Piezoelectric Properties of BiFeO<sub>3</sub> Thin Films Prepared by Spin Coating Method, 57<sup>th</sup> DAE-Solid State Physics Symposium, December 3-7, 2012, Indian Institute of Technology Bombay, Mumbai.
5. Morphology, Optical and Magnetic Properties of Mg Doped ZnO Thin Films, International conference on Contemporary Trends in Optics and Optoelectronics, XXXV Optical Society of India, Indian Institute of Space Science and Technology January 17-19, 2011, Thiruvananthapuram.
6. Renewable source of Energy- Wind Energy, National Seminar on Renewable Energy Resources, Yadava College, March 2010, Madurai
7. Understanding Planet Earth, International Awareness Workshop and Training Course on Bioethics Education, Arul Anandar College, September 26-27, 2008, Madurai.
8. Ultrasonic investigation On Some Consumable Milks, UCG Sponsored National Seminar on Emerging trends in physics, Department of Physics, Jayaraj Annapackiam College For women, August 30-31, 2007, Periyakulam.
9. Boltzmann's Distribution Function, Inter Collegiate Physics Meet, The Gandhigram Rural Institute Deemed University, February 3, 2006, Gandhigram.

#### **Lectures / Talks given:**

1. **Delivered talk on "Carrier Development program for higher secondary school students" at St. Joseph's Higher Secondary school Vikkiramangalam, January 2021.**
2. **Delivered Talk on "Basic experiments in Physics at Bishop Cotton Boy's School", Karnataka, August 2016.**

**Awards :**

**Best Paper Presentation award:**

**XVII National seminar on Crystal growth(XVII-NSCG) January 2013.**

**XI. Overseas Academic Visits:**

1. One day short visit on Universiti Malaysia, Pahang for the technical discussion on energy storage materials.

**XII. Any other activities / information / academic credentials you would like to mention:**

1. Completed Diploma in CCNA- Hardware and Networking.
2. Completed Course on Typewriting English (Higher).
3. Completed First Aid Training and certification.