

The American College, Madurai

FACULTY PROFILE

Name: Dr. R. Kennedy

Designation: Assistant professor

Department: Physics

Date of Joining: 23.08.2021

Mobile No: 9449521305

Email: rkennedy@americancollege.edu.in



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. Specialization in Teaching:

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

III. Specialization 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

IV. Any Other Work Experience:

Institution / Company	Designation	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

Administrative /Academic Position/s (held / currently holding):

Positions held / currently holding	Year - From (month/year) To month/year)
HOSTEL SUPERINTENDENT Telfer Mook Hall The American College Madurai	06-8-2022 to till date
HOSTEL WARDEN Xavier's Men Hostel ST. JOSEPH'S COLLEGE PB 27094, 36 LALBAGH ROAD BANGALORE.	15.06.2015 to 30.05.2017

V. 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).**

VI. Publications:

Articles Published in International Journals:

1. Kennedy Ravichandran, Gunasekaran Venugopal “A short review of the kinetic parameters of carbon quantum dots for Electrocatalytic Hydrogen evolution reaction” International Journal of Hydrogen Energy, (2023);Vol.2, Issue 10, Pages 3807-3823. **Impact Factor:7.139**
2. Kennedy Ravichandran “A novel MoS₂ structures for electrochemical detection of 4-aminophenol” Journal of Materials Science: Materials in Electronics (2018); doi.org/10.1007/s10854-018-8539-9. **Impact Factor:2.478**
3. R. Kennedy, D. Sornadurai, K. Ganesan, and J. Jebaraj, “Structural and Piezoelectric Properties of BiFeO₃ Thin Films Prepared by Spin Coating Method” American Institute of Physics. 1512, 1220 (2013); doi: 10.1063/1.4791490. **Impact Factor:1.697**
4. 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. **Impact Factor:0.422**

VII. Paper Presentations:

1. Optimizing phase formation of Mn Doped BiFeO₃ Nano Particles using Hydrothermal Method, International Conference on Advanced Materials for Energy, Environmental and Biomedical Applications (ICAMEEBA -2024) March 1st – 2nd **2024**, organised by PG & Research department of Physics, Alagappa Government Arts and College Karaikudi.
2. Hydrothermal synthesis and characterization of Multiferroic BiMnO₃ for solar cell Applications, International Conference on Recent Trends in Solar Cells (ICRTSC) January 12th- 13th **2023** , Sponsored by TNSCST, Department of Physics and PG and Research Department of Chemistry, CPA college, Bodinayakanur.
3. Phase Transformation studies of Bismuth Ferrite, DAE-BRNS 6th interdisciplinary Symposium on Materials Chemistry held at BARC, Mumbai, December 6^h -10th, **2016**.
4. Periodic Formation of Phase Pure BiFeO₃ 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.
5. Millimeter Size Multiple Morphology of Co Substituted BiFeO₃ 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.
6. Structural and Piezoelectric Properties of BiFeO₃ Thin Films Prepared by Spin Coating Method, 57th DAE-Solid State Physics Symposium, December 3-7, **2012**, Indian Institute of Technology Bombay, Mumbai.
7. 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.
8. Renewable source of Energy- Wind Energy, National Seminar on Renewable Energy Resources, Yadava College, March **2010**, Madurai
9. Understanding Planet Earth, International Awareness Workshop and Training Course on Bioethics Education, Arul Anandar College, September 26-27, **2008**, Madurai.

10. 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.
11. Boltzmann's Distribution Function, Inter Collegiate Physics Meet, The Gandhigram Rural Institute Deemed University, February 3, **2006**, Gandhigram.

VIII Faculty Development Program:

1. Attended TWO day Solar Energy Training Program organized by Ministry of Micro, Small & Medium Enterprises (MSME) Technology and Development Centre from 25th March to 26th March **2023**.
2. Department of Chemical Sciences and Sophisticated Analytical Instrumentation centre(SAIC), Tezpur University, Assam in association with SAIF, Panjab University, Chandigarh from 31st October to 7th November **2022**.
3. Attended one day Faculty Orientation Program Conducted by Internal Quality Assurance Cell, American college, Madurai on 09th November **2023**.
4. Participated Faculty Development Program on Art and Science of Methodical Scientific Writing and Publishing in a High Impact Journal organised by Internal Quality Assurance Cell, American college, Madurai on 6th March **2023**.
5. Attended one day Faculty Orientation Program Conducted by Internal Quality Assurance Cell, American college, Madurai on 20th November **2022**.
6. Attended 3 day Faculty Development program on Setting Goals and Managing time conducted by ICT Academy on 16 Jun 2022 to 18 Jun **2022** at Marudupandiyar College, Vallam.
7. Participated 2-weeks International Faculty Development Program on Teaching Efficacy designed and executed by St. Joseph University, Nagaland and Special Minds between the 14th and 27th of February **2022**.
8. Attended 7 days STUTI TRAINING PROGRAM organized by Department of Chemical Sciences and Sophisticated Analytical Instrumentation centre(SAIC), Tezpur University, Assam in association with SAIF, Panjab University, Chandigarh from 31st October to 7th November **2022**.

IX. International Conferences and workshop Attended:

12. Actively Participated in Three day online workshop on Recent Trends in Crystal Growth Technology (RTCGT-2024), organised by the Department of Chemistry and School of Science and Humanities with Centre for nanoscience and Nanotechnology, Sathyabama Institute of Science and Technology, Chennai during 8-10 February **2024**.
13. Attended training program on SOLAR ENERGY conducted by MSME-TECHNOLOGY DEVELOPMENT CENTRE (PPDC), Madurai on 25th March 2023 to 26th March **2023**.
14. Participated in ICT Enabled Physics Experiments and Training on Thin Film Solar Cells at RV College of Engineering, Bengaluru from 22 to 27th October, 2018.
15. Attended Seventh Refresher Course On Materials Preparation and Measurement of Properties at Indian Academy of Sciences, Bengaluru from April 03-18, 2017.
16. Participated in the International Conference on Electronics, Physics and Chemistry held at Jyothi Nivas College, Bangalore during 16th -17th February 2017.

X. Lectures / Talks given:

1. **Delivered talk on “Carrier Development program for higher secondary school students” at St. Joseph's Higher Secondary school Vikkiramangalam, 2022.**
2. **Delivered Talk on “Basic experiments in Physics at Bishop Cotton Boy’s School”, Karnataka, August 2016.**

XI. Awards :

Best Paper Presentation award:

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

XII .Overseas Academic Visits:

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| <ol style="list-style-type: none">1. One day short visit on Universiti Malaysia, Pahang for the technical discussion on energy storage materials. |
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XIII. 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.