Sri Sai Ram Engineering College					
Department Of Humanities And Sciences					
Name : SATHIYA PRIYA A					
Designation :	Assistant Professor				
Qualification :	M.Sc., M.Phil., Ph.D., Post-Doc (PR China)				
Area of Specialization :	Multiferroic, 2D materials, Solar cells, Photo-catalytic activity				
Experience :	Teaching:UG: 5 years and months PG: Nil Industry : Nil				
No. of Workshop / Conferences / FDP attended	Workshop – 1 / Conferences-1/FDP-1 Event organized-1				
Publications :	Journals National : Nil International : 23				
	Conferences National : 3 International : 8				
Research Guidance :	Nil				
General :	Advanced Diploma in computer Hardware and Networking (ADHCN). Honours Diploma in computer Application.				

Staff Achievements:	International Centre for Diffraction Data		
	(ICDD) has approved and certified the		
	XRD PATTERNS of (La, Cu) co-doped		
	BiFeO3 materials reported by me. They		
	were added in ICDD files (Powder		
	Diffraction File -2020). File number:		
	690371, 690372, 690373.		

Educational Qualification:

Category	Name of the Degree	Specialization	Year of Passing	Name of the College	Name of the University	% of Marks / Grades obtained	Class obtained
UG	B.Sc.,	Physics	2009	Sri Paramakalyani College	M S University	71	First
PG	M.Sc.,	Physics	2011	Sri Paramakalyani College	M S University	73.18	First
Research	M.Phil.	Physics	2012	Ayya Nadar Janaki Ammal College	M K University	7.2 (CGPA)	First
Research	Ph.D	Physics	2018	B S Abdur Rahman Crescent Institute of Science and Technology Chennai	B S Abdur Rahman Crescent Institute of Science and Technology	NA	NA

Academic Experience: (as on 30.09.2022)

Name of the College	Designation	Joining	Relieving	Experience		
Name of the conege		Date	Date	Years	Months	Days
Madras Institute of	Teaching	18.06.2014	30.04.2018	4	11	0
Technology, Chennai	Fellow	10.00.2014				
Sri Sairam	Assistant	10.08.2022	Till date	0	1	20
Engineering College	Professor	10.08.2022				
Total					0	20

PUBLICATIONS

Journals:

1. B Shameem Banu, Rajesh Raman, Mohamad Hafiz Mamat, P Komalavalli, B. H

Poornima, S Divyalakshmi, S Sathik Basha, **A Sathiya Priya**, S Hussain, Strainmediated electrical and optical properties of novel lead-free CuFe₂O₄–KNbO₃ nanocomposite solid solutions: A combined experimental and Density Functional Theory studies, *Microsc. Res. Tech*, DOI: 10.1002/jemt.24172 (2022).

- 2. **A. Sathiya Priya,** D.Geetha, Structural and frequency dependent dielectric properties of Ba doped Ni-Zn ferrite powders, Phosphorous, Sulfur Silicon Relat Elems. 197, 186-191, 2022.
- 3. **A. Sathiya Priya,** D.Geetha, J.Henry, Effect of Cu and Sm doping on the ferroelectric character of bismuth ferrite thin films, Phosphorous, Sulfur Silicon Relat Elems. 197, 158-163, 2022.
- 4. **A. Sathiya Priya,** D.Geetha, Madhavan, Synthesis, structural, dielectric, and photocatalytic properties of (Ti, La) co-doped calcium ferrite ceramic powders, *Arab. J. Sci. Eng., Accepted (2021).*
- 5. **A. Sathiya Priya,** D. Geetha, I.B.Shameem Banu, "Structural, dielectric and impedance analysis of (Dy, Cu) co-doped BiFeO₃" Brazilian J Phys. *DOI: 10.1007/s13538-021-00961-0 (2021)*.
- 6. Ștefan Țălu, **A. Sathiya Priya**, D.Geetha, Topographic characterization of of (Zr, Mn) co-doped bismuth ferrite thin film surfaces, *Microsc. Res. Tech, 84 (10), 2494-2500 (2021)*.
- 7. **A. Sathiya Priya**, D. Geetha, Studies on the multiferroic properties and impedance analysis of BiFeO₃ by (La, Cu) prepared by sol-gel method, *Ferroelectrics*, *573*, *104-116 (2021)*.
- 8. **A. Sathiya Priya**, D. Geetha, Impact of (Zr, Cu) ions substitution on the optical, dielectric and impedance behavior of BiFeO₃, *Brazilian J phys. 51, 175-181 (2020).*
- 9. **A. Sathiya Priya**, D.Geetha, Ștefan Țălu, Advanced micromorphology study of the Mn-doped bismuth ferrite thin films, *Mater. Lett, 281, 128615 (2020)*.
- 10. M. Rajamoorthy, D. Geetha, **A. Sathiya Priya**, "Synthesis of cobalt doped Bi₁₂NiO₁₉: structural, morphological, dielectric and magnetic properties", *Arab. J. Sci. Eng.*, *46*, 737-744, 2020.
- 11. Jian Chen, **A. Sathiya Priya**, Di You, Weijie Pei, Qingfeng Zhang, Yinmei Lu, Mingkai li, Jinming Guo, Yunbin He, "Self-driven ultraviolet photodetectors based on ferroelectric depolarization field and interfacial potential", *Sens. Actuators, A: Physical*, 315, 112267, (2020).
- 12. **A. Sathiya Priya**, D. Geetha, K.Karthik, M.Rajamoorthy, "Investigations on the enhanced photocatalytic activity of (Ag, La) substituted nickel cobaltite spinels", *Solid State Sci.*, 98, 105992 (2019).
- 13. **A. Sathiya Priya**, I. B. Shameem Banu, D. Geetha, S. Sankar, "Investigations of the magnetic and dielectric behavior of (Zr, Cu) co-doped BiFeO₃-BaTiO₃ composite",

Mater. Res. Express, 6, 106116 (2019).

- 14. **A. Sathiya Priya**, D. Geetha and N. Kavitha, "Effect of Al substitution on the structural, electric and impedance behavior of cobalt ferrite", *Vacuum*, 160, 453-460 (2019).
- 15. **A. Sathiya Priya**, D. Geetha and N. Kavitha, "Evaluation of the structural and dielectric properties of Al, Ce co-doped Cobalt ferrites", *Mater. Research express*, 5, 066109 (2018).
- 16. **A. Sathiya Priya**, I. B. Shameem Banu and Zulaikha Mohammed "Effect of novel (Gd, Cu) substitution on the electrical properties and magnetoelectric coupling bismuth ferrite ceramics", *J. Mater. Sci: Mater. Electr.*, 28, 8467-8472 (2017).
- 17. **A. Sathiya Priya**, I. B. Shameem Banu, Shahid Anwar and Shamima Hussain, "Studies on the multiferroic properties of (Zr, Cu) co-doped BiFeO3 prepared by solgel method", *J Sol-Gel Sci Technol.*, 80, 579-586, (2016).
- 18. A. Sathiya Priya, I. B. Shameem Banu and Shahid Anwar, "Influence of Dy, Cu doping on the room temperature multiferroic properties of BiFeO3", *J Magn. Magn. Mater.* 401, 333-338 (2016).
- 19. **A. Sathiya Priya**, I. B. Shameem Banu and Murthy Chavali, "Influence of (La, Cu) doping on the room temperature multiferroic properties of BiFeO3 ceramics", *Arab. J. Sci. Eng.*, 40, 2079-2084 (2015).
- 20. **A. Sathiya Priya**, I. B. Shameem Banu and Shahid Anwar, "Investigation of multiferroic properties of doped BiFeO3- BaTiO3 composite ceramics", *Mater. Lett.* 142, 42-44 (2015).
- 21. I. B. Shameem Banu, **A. Sathiya Priya**, P. Komalavalli, and Shanmuganathan, "Investigation of Structural and magnetic properties of doped BaFeO3- BaTiO3 multiferroic composites", *J. Materials sci. Mater. Electron.* 26, 98-102 (2014).
- 22. **A. Sathiya Priya,** I. B. Shameem Banu, "Effect of doping and annealing on the room temperature magnetic and dielectric properties of La modified BiFeO3 multiferroic nanoparticles synthesized by sol-gel citrate combustion method", *Chemtech*, 6 (11), 4643-4649 (2014).
- 23. **A. Sathiya Priya,** I. B. Shameem Banu, J. Thirumalai, A. Alagar, "Optical characterization of Mn doped CdS nanoparticles synthesized by simple chemical route", *Opt. Electron. Adv. Mater. Rapid Comm.*, 7 (3-4), 191 195 (2013).

Conference Presented

1. **A. Sathiya Priya,** D. Geetha, Enhancement of ferroelectric characteristics for BiFeO₃ by dual doping, International Virtual Conference on materials research (IVCMR-22), Easwari Engineering College, September 15-16, 2022.

- A. Sathiya Priya, D. Geetha, "Effect of Co and Sm doping on the ferroelectric character of bismuth ferrite thin films", International conference on novel engineering materials for biomedical, energy environment, sensing and other applications - 2021 (ICON-BEES'21), National Institute of Technology, Tiruchirappalli during 11-13 march 2021.
- 3. **A. Sathiya Priya**, D. Geetha, "Influence of Zr and Mn doping on the photovoltaic properties of bismuth ferrite thin films", International conference on nanoscience and nanotechnology (ICONN 2021), SRM Institute of Science and Technology, Kattankulathur, during 01-03 February 2021.
- 4. **A. Sathiya Priya**, D. Geetha, "Greatly enhanced photocurrent in perovskite BiFeO₃ thin film solar cell", Indo-UK International virtual conference on advanced nanomaterials for energy and environmental applications (ICANEE-2020), Alagappa University, 2020, ISBN: 978-93-5408-847-6.
- 5. **A. Sathiya Priya,** D. Geetha, "Photoluminescence properties of delofossite (Ag, Fe) doped CuAlO₂-SnO₂ composite", International conference on novel materials for evolving technological applications (ICNM-2020) by Holy Cross College, Nagercoil, 2020, ISBN- 978-81-941608-5-4.
- 6. **A. Sathiya Priya,** D. Geetha, "Synthesis of mesoporous NiCo₂O₄ nanomaterials and their photocatalytic on textile dye Evans blue", National conference on new generation materials for energy applications, B.S. Abdur Rahman University, Chennai, 2019.
- 7. **A. Sathiya Priya,** D. Geetha, "Structural and magnetic properties of transition metal doped BiNiO₃", Recent trends in material science (RTMS-2018) Annamalai University, 2018.
- 8. **A. Sathiya Priya**, D. Geetha, "Synthesis and characterization of nickel ferrite nanoparticles prepared by auto-combustion method" National conference on fuctional materials and its applications (NCFMA 2018), Vels University, Chennai, 2018.
- A. Sathiya Priya, I. B Shameem Banu, "Studies on the dielectric properties of BiFeO₃, Gd doped BiFeO₃ and (Gd, Cu) doped BiFeO₃", International conference on advances in functional material (ICAFM2017) by Anna University, Guindy, 2017.
- 10. **A. Sathiya Priya**, I.B Shameem Banu, "Structural and magnetic properties of rare earth and transition metal doped BiFeO₃ nanoparticles", International conference on emerging trends in nanoworld (ICETN2017) by Vels University, Chennai, 2017.
- A. Sathiya Priya, I. B. Shameem Banu, "Structural and Magnetic properties of multiferroic BiFeO₃ nanoparticles prepared by sol-gel method" was presented in a 3-days international level conference on ICNM'13 at B.S. Abdur Rahman University, Chennai (2013).

EVENT ORGANIZED

1. Invited talk by international research collaborators, Sri Sairam Engineering College, 26th September 2022.

Faculty Development programme (FDP)

1. Participated two weeks (40 hours) online faculty development programme on MATLAB programming, Electronics and ICT Academics at MNIT Jaipur, NIT Patna, and PDPM IIITDM Jabalpur during August 22- September 02, 2022 (Recognized by AICTE/UGC)

Conference Attended:

1. Attended two day national level conference on **"NCAMA 2013"** at National Institute of Technology, Trichy.

Workshops Attended

1. Attended two days International level workshop on **"IWAM - 2014"** Alagappa University, Karaikudi.

Training Program Attended

1. Attended 3days Training Program on Thin Film synthesis and characterization Techniques conducted by Center for Nanoscience and Nanotechnology, Sathyabama University (2013).

Invited Talk

1. A. Sathiya Priya, "Ferroelectric multilayer films based high efficiency, low cost solar cell fabrication", International conference on novel materials for evolving technological applications (ICNM-2020) by Holy Cross College, Nagercoil, 2020.

Webinar attended

- 1. Attended two day international level webinar on "Crystal Engineering: From Molecule to Crystal" at IIT Madras, Chennai, 2020.
- 2. Attended one day international level webinar on "Nanotechnology in Aerospace" at Auxilium College, Vellore, 2020.
- 3. Attended one day international level webinar on "Century of Quantum Mechanics and Still Going Strong" at Maharaja Sayajirao University of Baroda, Gujarat, 2020.
- 4. Attended two days international level webinar on "Nanomagnetism" at Vel Tech High Tech, Chennai, 2020.
- 5. Attended one day international level webinar on "Future generation solar cell 2020" at Nehru Institute of Technology, Coimbatore, 2020.

- 6. Attended one day international level webinar on "RTAMS-2020" at The American College, Madurai, 2020.
- 7. Attended three days international level webinar on "RAMS-2020" at Government Arts College for Women, Salem, 2020.
- 8. Attended one day national level webinar on "Importance of Precise Measurements in Science & Technology and Advances in Material Science" at B S Abdur Rahman Crescent Institute of Science & Technology, Chennai, 2020.
- 9. Attended One day international level webinar on "Advanced Materials for Biomedical, Energy & Environmental Applications" at PSG College of Arts & Science, Coimbatore, 2020.
- 10. Attended three days national level webinar on "Recent trends in Material Science and Training on Related Software tools" at Stella Maris College, Chennai, 2020.
- 11. Attended One day international level webinar on "Solid State Laser" at Pope's College, Sawyerpuram, 2020.
- 12. Attended One day national level webinar on "Societal Applications of ionizing and nonionizing radiation" at St. Joseph College of Engineering, Chennai, 2020.