

Faculty- Profile



Name of the Department : **Physics**
Name of the faculty member : Dr. S. Benita Jeba Silviya
Present Designation : **Assistant Professor**
: **Wavoo Wajeetha Women's College of Arts & Science**
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Kayalpatnam
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Email : drbenita@wavoowajeethacollege.in
Gender : Female
Community : **BC**
Date of Birth and Age : 10.05.1982 & 41
Date of Joining the present post : **12.6.2023**

Particulars of Educational Qualifications:

Category	Name of the Degree	Specialization	Year of Passing	Name of the College	Name of the University	% of Marks / Grades secured	Class obtained
UG	B.Sc.,	Physics	2002	Pope's College, Sawyerpuram.	ManonmaniamSundaranar University, Abishekpatti	77.5	First class
PG	M.Sc.,	Physics	2004	Pope's College, Sawyerpuram.	ManonmaniamSundaranar University, Abishekpatti	65.25	First class
M.Phil.,	M.Phil.,	Physics	2005	ManonmaniamSundaranar University, Abishekpatti	ManonmaniamSundaranar University, Abishekpatti	64	First class
Ph.D.,	Ph.D.,	Physics	2018	ManonmaniamSundaranar University, Abishekpatti	ManonmaniamSundaranar University, Abishekpatti	Thesis	-

Title of Ph.D. Thesis : "Investigations on the Growth and Characterization of Some Technologically Important Crystals grown by Solution Growth Technique"

Faculty/Discipline/Subject in which Ph.D. was awarded : **Physics**

Academic Experience:

Name of the College	Govt/Aided/ S.F.	Designation	Joining Date	Relieving Date	Experience		
					Year s	Mont hs	Days
Kamaraj College of Arts and Science. Thoothukudi	S.F	Lecturer	01/10/2004	01/08/2006	1	10	-
J.A.C.S.I. College of Engineering, Nazareth.	S.F	Lecturer	02/08/2006	21/04/2012	5	8	
V V College of Engineering, Tisayanvilai.	S.F	Assistant Professor	02/05/2012	29/11/2019	7	6	
Nazareth Margoschis College at Pillaiyanmanai.	S.F	Assistant Professor	20/12/2019	30/06/2022	2	6	
Wavoo Wajeetha Women's College of Arts and Science, Kayalpatnam	S.F	Assistant Professor	12.6.2023	Till date		1	
Total					17	7	

Paper Published in Journals (Referred/Non-Referred)

S.No	Title of the Paper	Level (National/ International/ State/ Regional)	Journal with Issue No, Page No, Vol.No, ISSN & Impact factor	Date (dd-mm-yyyy)	Citation/ Scopus index/ Web of Science
1.1	Growth And Characterization of Disodium Hydrogen Orthophosphate (DSHP) Single crystals,	International	Materials and Manufacturing Processes, vol. 22, no. 3, pp. 379-383. ISSN: 1042-6914 Impact Factor :4.616	22.3.2007	Scopus index
2.2	Synthesis, Growth and Spectroscopic Studies of nonlinear Optical mixed borate crystal,	International	Asian Journal of Research In Social Sciences and Humanities, Vol. 6, no. 6, pp. 2401-2407. ISSN 2249-7315. Impact Factor: 5.99	2017	
3.3	Growth and Physicochemical properties of pure and urea doped Sodium pentaborate dihydrate single crystal'	International	International journal of Chem Tech Research, vol. 10, no. 7, pp. 553-562. ISSN: 0974-4290. Impact Factor: 0.819	2017	
44	Effect of urea as an impurity on the structural, optical and electrical properties of potassium pentaborate dihydrate single crystals'	International	International Journal of Advanced Engineering Research and Technology, vol. 5, no. 8, pp. 625-636. ISSN: 2348 – 8190. Impact Factor: 2.864	August 2017	
5.5	Urea doped crystals formed with potassium-sodium pentaborate	International	Surfaces and Interfaces, vol. 11, pp. 14-21. ISSN:	10.02.2018	Scopus index

	(K _{0.5} Na _{0.5} B ₅)		2468-0230. (Elsevier) Impact Factor: 4.81		
6.6	A Study on the Anti-microbial Activity and Luminescence Characteristics of Some Novel Cobalt, Nickel, Copper and Zinc Co-ordinated Macrocyclic Schiff Base Complexes,	International	Journal of Emerging Technologies and Innovative Research, Vol. 6, no.6, pp. 268-275, ISSN: 2349-5162. Impact Factor: 7.95	2019	
7.7	A New Mannich Base and its transition metal(II) complexes - Synthesis, Structural Characterization, DNA Cleavage and Anti-oxidant Studies,	International	Journal of Emerging Technologies and Innovative Research, Vol. 6, no.6, pp. 814-824, ISSN: 2349-5162. Impact Factor: 7.95	2019	
8.8	Crystal structure and evaluating CeH ^{III} π (aryl/chelate) interactions in bis(2-[(2-hydroxyethyl)imino]-methyl)-4,6-diiodophenolato)-palladium(II) Schiff base complex derived from (E)-2-(((2-hydroxyethyl)imino)methyl)-4,6-diiodophenol''	International	Inorganica Chimica Acta , 498 (2019) 119118. (Elsevier) Impact Factor: 2.545	28.8.2019	Scopus index
9	Biocompatible alkyne arms containing Schiff base fluorescence indicator for dual detection of Cd ^{II} and Pb ^{II} at physiological pH and its application to live cell imaging''	International	Royal Society of Chemistry, Analyst , 2020, 145, 4576–4586. Impact Factor: 4.616	5.5.2020	Web of Science

110	Antimicrobial activity of transition metal (II) complexes based on a Mannich base ligand,	International	Emerging Materials Research, Vol. 10, no.1, pp. 85-89, ISSN: 2046-0147. Impact Factor: 1.096	2021	

Paper Published in Books

S.No	Title of the Book	Publisher Details	Book Name with Issue No, Page No, Vol.No, ISBN	Month & Year
	➤ Engineering Physics -I	Sri Maruthi Publishers, Chennai	➤ ISBN-978-93-80757-16-2	August 2010
	➤ Engineering Physics -II	Sri Maruthi Publishers, Chennai	➤ ISBN-978-93-80757-45-2	January 2011
	➤ Proceedings of the International Conference on Advanced Topics in Interdisciplinary Research in Chemistry and Physics, (under the aegis of UGC Autonomy Grant)	Sri.S.Ramasamy Naidu Memorial College, Sattur.	➤ X-ray diffraction studies of some diazotised cardanol based resins ➤ ISBN: 978 9353515003.	12 & 13 March 2019
	➤ Proceedings of the National Symposium on Recent Advances in Physical science,	Pooja Publications	➤ Synthesis and characterization of cardanol backbone resins ➤ ISBN: 97893 82592 02 0	18 & 19 March 2019
	➤ Proceedings of the	Kamaraj College, Thoothukudi.	➤ Theoretical	22.4.2022

	National Seminar on Role of catalyst in Chemistry		Exploration of Nickel(II)Complex with Covid 19 Virus:Synthesis,Spectroscopic measurements,DFT and molecular docking approaches. ➤ ISBN: 978-81-951473-3-5.	
	➤ Proceedings of the National Seminar on Self Development, Importance of Soft Skills for Education and Self Development,	Shanlax Publications	➤ Importance of soft skills for education and self development, ➤ ISBN: 978-93-87871-27-4.	4.4.2018
	➤ UGC Sponsored Two day National Conference on Materials in sustainable chemistry, Environmental studies of interpenetrating polymer networks,	Sadakathullah Appa Educational Society,Tirunelveli.	➤ Environmental studies of interpenetrating polymer networks. ➤ ISBN: 978-81-938054-8-0.	27& 28.9.2019

Papers Presented in Conference/Seminar

S.No	Title of the Paper	Level (National/ International/ State/ Regional)	Proceedings Name with Issue No ,PageNo,Vol.No ISSN	Date (dd-mm-yyyy)
1	XRD, FTIR & Dielectric studies of Pure and Thio-urea Doped Disodium Hydrogen Ortho phosphate (DSHP) crystals..	National conference	➤ UGC Sponsored National Conference on Recent Trends In Crystal Growth,Thin Films And NanoStructured Materials	05.08.2009 - 06.08.2009
2	Studies on irrigation suitability of river water in Ammanpuram Tank.	National conference	➤ Conference on Modern Trends in Science and Communication	07.05.2014
3	Photoluminescence studies of mixed borate crystals.	International conference	➤ International conference on New Advances In Chemistry and Materials	05.01.2016
4	Second Harmonic Generation properties of mixed borate crystals	National Conference	➤ National Conference on The Emerging Trends In The Fields of Maths, Physics And Chemistry	04.03.2016
5	NLO Properties of urea doped mixed borate crystals	State level seminar	➤ State level seminar on Environment And Existence of Mankind And Exhibition	08.03.2016 - 09.03.2016
6	Impedance analysis of urea doped Potassium Penta Borate crystals	International Conference	➤ International Conference on Functional Materials	07.09.2016 - 10.09.2016
7	NLO Properties of pure and urea doped Potassium Penta Borate (KB5) Single Crystals	National Conference	➤ National Conference On Recent Trends In Material Science	15.12.2016
8	Second Harmonic Generation properties of pure and urea doped sodium pentaborate crystals	National Conference	➤ National Conference On Current advancement in physics	03.02.2017 - 04.02.2017
9	Electrical properties of pure and urea doped sodium penta borate crystals.	National Seminar	➤ UGC Sponsored National Seminar on Recent Developments in Chemistry	20.02.2017
10	Synthesis, Growth and characterization of new NLO mixed borate crystals of the	National Seminar	➤ UGC Sponsored XXI National Seminar on Crystal growth and	06.03.2017 - 08.03.2017

	type (Na) _x K _{1-x} B ₅ O ₈		applications	
11	International conference Presented Spectral Characterisation and biological studies of Mannich Base Complexes.	International conference	➤ International Conference on New Vistas In Material Science	07.09.2017
12	Studies on synthesis and characterizati on of diazotised resins.	State level seminar	➤ State level seminar on Emerging Trends in Chemistry	26.02.2018
13	Electrical properties of pure and urea doped K _{0.5} Na _{0.5} B ₅ Crystals.	State level seminar	➤ State level seminar on Emerging Trends in Chemistry	26.02.2018
14	Kinetic studies of some diazotised pnitroaniline cardanolfurfural resins	National Conference	➤ National Conference on Recent Advances in Applied Chemistry	22.02.2019
15	X-ray diffraction studies of some diazotised cardanol based resins	International conference	➤ International Conference on Advanced Topics in Interdisciplinary Research in Chemistry and Physics	12.03.2019 - 13.03.2019
16	Environmental studies of interpenetrating polymer networks.	National Conference	➤ UGC Sponsored Two day National Conference on Materials in sustainable chemistry	27.09.2019 & 28.09.2019