

Dr.Shaik.Salma Begum

M.Sc., Ph.D

Scopus Author ID: 56183731100 Researcher ID: Q-1131-2015

Google Scholar: <https://scholar.google.co.in/citations?hl=en&user=WyO5O3YAAAAJ>

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Passport No. / Validity: P7896751 / 20.02.2027

Research Interest

Bio-sensor Applications of Liquid Crystals, Dielectrics, Nano Materials and their Unique Properties

Personal Details

Name: Dr.Sk.Salma Begum

Date of Birth: 18-05-1984

Languages Known: English, Hindi, Urdu, Telugu

Nationality: Indian

Address for Correspondence: C/o Sk. Mahaboob Bee,
D.No. 21-303-1, Rail Pet
Machilipatnam – 521001
Krishna District, Andhra Pradesh

Educational Qualifications

S.No	Examination	Subject	College/University	Year of Pass	Percentage
1	SSC	All	Sharkey High School, Machilipatnam, AP, India	1999 March	73
2	Inter	Phy, Chem, Maths	Noble College, Machilipatnam, AP, India	2001 March	72
3	B.Sc.	Phy, Chem, Maths	Acharya Nagarjuna University, AP, India	2004 March	77
4	M.Sc.	Physics	Acharya Nagarjuna University, AP, India	2006 March	73
5	Ph.D	Physics	Acharya Nagarjuna University, AP, India	28/10/2013	
6	APSET	Physical Sciences	Andhra University, AP, India	2018	50

Publications

1. S.S.Sastry, T.V.Kumari, **S.S.Begum**, V.V.Rao, “Investigations into effective order geometry in a series of liquid crystals”, **Liquid Crystals**, Vol.38, pp.277- 285, 2011, DOI: 10.1080/02678292.2010.541947 (**Scopus Indexed**)
2. **S.S.Begum**, T.V.Kumari, C.R.S.Kumar, S.S.Sastry, “Liquid Crystalline G phase of self-assembled donor-acceptor molecules by intermolecular hydrogen bonding”, **J.Non-crystalline solids**, Vol.357, pp.1745-1749, 2011, DOI: 10.1016/j.jnoncrysol.2010.12.076 (**Scopus Indexed**)
3. S.S.Sastry, **S.S.Begum**, T.V.Kumari, V.R.K.Murthy, S.T.Ha, “Effect of Magnetic nanoparticles on p-n-alkyl benzoic acid mesogens”, **E-Journal of Chemistry**, Vol.9, pp.2462-2471, 2012, DOI: 10.1155/2012/878049 (**Scopus Indexed**)
4. S.S.Sastry, **S.S.Begum**, K.Mallika, K.B.Mahalakshmi, “Image Analysis to detect phase transition temperatures of p-n-alkyl benzoic acids”, **International journal of innovative research in science, engineering and technology**, Vol.2, pp.4641-4647, 2013. (**Google Scholar**)
5. S.S.Sastry, N.K.P.S.Sarma, **S.S.Begum**, “Dielectric studies on polar binary mixtures of p-hydroxy dodecyl benzoate and isopropanol”, **International journal of innovative research in science, engineering and technology**, Vol.3, pp.10322-10332, 2014. (**Google Scholar**)
6. K.V.S.N.Raju, **S.Salma Begum**, B.Dharma Sagar and Sk.Babu, “High Temperature Phase Transformations and Dynamics of zinc oxide nanoparticles incorporated 4-cyanobiphenyl mesogen”, **Rasayan Journal of Chemistry** , vol.10, pp.37-45, 2017, <http://dx.doi.org/10.7324/RJC.2017.1011534> (**Scopus Indexed**)
7. K.V.S.N.Raju, **S.Salma Begum** and Sk.Babu, “Image Dynamics of Glucose dispersed 4-Cyano-4'-Pentyl Biphenyl Liquid Crystal: Thermal & Spectroscopic Approach”, **Journal of Pharmaceutical Sciences and Research**, vol.9 (3), pp.269-274, 2017. (**Scopus Indexed**)
8. K.V.S.N.Raju, **S.Salma Begum** and Sk.Babu , ” Dielectric studies of dispersions of Zinc Oxide nanoparticles in p-ethoxy benzylidene-p-cyano aniline (EBCA) Nematic liquid crystals “ **AIP International Conference Proceedings of RERE – 18**” (**Scopus Indexed**)
9. K.V.S.N.Raju, Shaik.Babu, **Shaik.Salma Begum**, “Zinc Oxide Nanoparticles Dispersed p-(p'-Ethoxy benzylidene)- p-cyano aniline Mesogen: Statistical and Spectral Analysis”, **Asian Journal of Chemistry**, Vol.30, No.9, 2018 (**Scopus Indexed**)
10. K.V. Surya Narayana Raju, **Shaik Salma Begum**, B.T.P. Madhav and M.C. Rao, “Optical and dielectric spectroscopic studies of dispersed ZnO nematic liquid crystals prepared by chemical precipitation method”, **Journal of Applied Spectroscopy (ZhPS)**, Vol. 89, No. 3 (May-June) 2022 (**SCI Indexed**)

11. **Shaik. S.Begum**, K.V.S.N.Raju, K.Sunil Babu, "Image Processing and Fourier Transformations of 4-Hexyloxy Benzylidene 4'-Decyloxy Aniline Liquid Crystal", **International Journal of Innovative Science, Research and Technology**, Vol.11, No.1, January 2022 (**Cross Ref, UGC Care List**)
12. Dr.A.Nagarjuna, Dr.K.V.S.N.Raju, **Dr.Shaik S.Begum** and Dr.B.M.Praveen, "Speed of Sound Studies of Ethyl-4-hydroxy Benzoate with Formamide at Different Temperatures", **International Journal for Innovative Engineering and Management Research**, Vol.12, No.2, February 2023 (**Elsevier SSRN**)
13. K. V. S. N. Raju, **Shaik Salma Begum**, A. Nagarjuna, B. M. Praveen, "Spectroscopic and Textural Analysis of Glucose Dispersed Fundamental Nematic Liquid Crystals", **Brazilian Journal of Physics**, Vol. 53, No.89, May 2023 (**Springer**)
14. K.V.S.N. Raju, A.Nagarjuna, B.M Praveen and Shaik Salma Begum, "Dielectric Relaxation Times Of Zns Nanoparticles Dispersed Ferroelectric Liquid Crystal : A Comparative Study", **Material Science and Technology**, Vol.22, No.10, Oct 2023 (**Scopus**)

Conferences, Seminars & Workshops

1. International Seminar on Nanotechnology For The Future Energy Challenges (NFTFC) organized by **Andhra Pradesh Akademi of Sciences** at P.B.Sidhartha College of Arts & Science, Vijayawada. Date:18th Dec, 2018.
2. International Conference on Nano Science and Nano Technology for Energy Applications (EApp-2016) organized by **Satyabama University, Chennai**. Date 27th June – 29th June, 2016, p.136 (**Best Oral Presentation Award**)
3. International Conference on Mathematics, Physics and Allied Sciences (ICMPAS – 2016) organized by **Carmel College, Nuvem, Goa**. Date 3rd March – 5th March, 2016, p.16
4. National Conference on "Emerging Trends of Advanced Functional Materials" organized by K.L.Deemed to be University, Vaddeswaram during 3rd & 4th September, 2015.
5. Two Day National Workshop on "Scientometric Tools and Techniques for Research Analysis" held at K.L.Deemed to be University from 27th & 28th September, 2014.
6. National Seminar on "Nanotechnology for Sustainability of Rural India" held at K.L.Deemed to be University, Vaddeswaram on 19th February, 2014.
7. International Conference on Materials for Advanced Technologies (ICMAT 2011) organized by Materials Research Society, **SUNTEC, Singapore**. Date 26th June – 1st July, 2011, p.59
8. UGC Sponsored **National Seminar** on Nanomaterials and Technology by Dept. of Physics

- & Electronics, **S.K.B.R. College, Amalapuram**. Dates 9th & 10th January, 2010, p.50
9. UGC Sponsored **National Seminar** on Emerging Trends in Material Science –An Application to Amorphous, Nano & Liquid Crystals by Dept. of Physics, **Sir CR Reddy Autonomous College, Eluru**. Date 30th October, 2010, p.42.
 10. One Day **International Webinar** on "Recent Advances in Materials Science and Technology(RAMST)", **SVCR Govt. Degree College, Palamaner, Chittoor, A.P**, 12th July 2021.
 11. International Conference on Advanced Materials and Mechanical Characterization (ICAMMC 2021), **SRM Deemed University, Amaravathi**, 2-4 December 2021
 12. International Conference on "Emerging Trends in Science, Engineering and Technology (ICESET-2023)", **Andhra Loyola College, Vijayawada**, 20-22 February, 2023

FDPs

1. **4 Week FDP** from NPTEL - AICTE online Course "Fundamentals of Electronic Device Fabrication" , July - August 2022. Awarded Elite
2. **4 Week FDP** from NPTEL - AICTE online Course "C Programming and Assembly Language" , July - August 2021. Awarded Elite
3. **8 Week FDP** from **IIT, Guwahati**, NPTEL Online Course "Numerical Methods and Simulation Techniques for Scientists and Engineers" in Sep – Nov 2020. Awarded **ELITE**.
4. **12 week FDP** program offered by **IIT, Delhi**, through NPTEL Online Course "Semiconductor Optoelectronics" in the Jan-April 2019.
5. **4 week FDP** program offered by **IISc, Bangalore**, through NPTEL online course "TALE" in the Jan - April 2019. Awarded **ELITE Silver**.
6. Two days workshop on "Effective Methods of Teaching with Outcome" at NRI Institute of Technology, Agiripalli on 13th & 14th Nov, 2018.
7. "Jeevan Vidya" (Human Values) at K.L.Deemed to be University, Vaddeswaram from 19th May - 24th May, 2014.
8. "Inspire Camp - 2015" Member of Organizing Committee held at K.L.Deemed to be University, Vaddeswaram during 29th June - 3rd July, 2015.

Guideship

Act as **External guide** for One Research Scholar (13322014) and he has **awarded Ph.D** on 07.09.2020 from **K.L.Deemed University**

Computer Skills

MatLab , C Language, Windows, Origin and Spartan

Teaching Experience: *Total 17 years*

(1.6.2006 - 1.3.2009 {3 years} and 1.11.2011 – till date {14 years})

Dealt Engineering Materials, Engineering Physics, Modern Physics, Applied Physics, Mathematical Physics, Electronics, Computational Methods and Programming & Solid State Physics

Reviewer: Journal of Advances in Medical and Pharmaceutical Sciences

Journal of Material Science Research & Reviews

Present Status: Coordinator, Department of Physics, Krishna University, Machilipatnam

(from 25.01.2021 to till date)

Last worked Institutions

NRI Institute of Technology, Nunna, Vijayawada Rural (1.6.2017 – 23.1.2021)

K.L.Deemed to be University, Greenfields, Guntur Dist. (13.07.2013 – 24.12.2016)

Gudlavalleru Engineering College, Krishna Dist. (13.07.2012- 30.04.2013)

Baptla Women's Engineering College, Guntur Dist. (01.06.2011 – 30.06.2012)

Nuzvid Polytechnic College, Krishna Dist. (01.06.2008 – 30.3.2009)

V.J.Degree College, Mangalagiri, Guntur Dist. (01.06.2006 – 30.4.2008)

Experience as **External Evaluator: 13 years** (All types of Physics papers in UG, PG, B.Tech & Intermediate Courses)

References

1. Prof.A.S.Rao

Department of Applied Physics

Delhi Technological University, New Delhi

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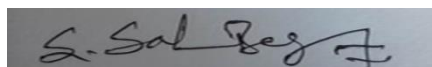
2. Dr. Abdul Azeem

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(Dr.Sk.Salma Begum)