CURRICULUM VITAE

Dr. S.SUGUNA Assistant Professor, PG Department of Chemistry, Shrimathi Devkunvar Nanalal Bhatt College for Women, Chrompet, Chennai-600 044. E-Mail: suguna.s@sdnbvc.edu.in, sugunaganga08@gmail.com ORCHID ID- https://orcid.org/0000-0002-6518-124X Google scholar id-srcEZugAAAAJ Web of Science ResearcherID-AAE-8064-2021



To undertake a challenging research position and to be a part of a progressive educational institution that gives scope to effectively apply my skills to the organization and to enhance my capabilities, technical, organizational, and accept the responsibility in a well spirited team to work with dedication and hard work.

RESEARCH INTEREST

- ✓ Crystal growth and nonlinear optical (NLO) materials
- ✓ Synthesis of new organic and inorganic compounds
- Synthesis of Bimetallic and trimetallic oxides Nanocomposites by Co-precipitation method.

WORKING EXPERIENCE:

Four years of Teachingexperience in

(i)Dr.MGR EDUCATIONAL AND RESEARCH INSTITUTE: 1year (2008-2009)

(ASSISTANT PROFESSOR IN CHEMISTRY)

(ii)MEENAKSHI COLLEGE OF ENGINEERING:

1year (2009-2010)

(ASSISTANT PROFESSOR IN CHEMISTRY)



Subjects handled: Engineering Chemistry and Environmental Science.

(iii)SDNB VAISHNAV COLLEGE FOR WOMEN 3years (From2016)

(ASSISTANT PROFESSOR IN CHEMISTRY)

Subjects handled: Physical, Organic, Nano, Electro and Inorganic Chemistry.

Education	Institution	University	% of Marks	Grade	Year
Ph.D. (Crystal Growth)	Loyola College.	Madras University	-	-	2017
M.Phil., Chemistry	Bharathidasan University	Bharathidasan University	76%	Distinction	2007
M. Sc., Chemistry	Queen Mary's College, Chennai	Madras University	68.7%	First Class	2005
B. Sc., Chemistry	Bharathi Womens College, Chennai	Madras University	71.2%	First Class	2001

ACADEMIC QUALIFICATION

PUBLICATION AND AWARD

PUBLISHED IN INTERNATIONAL PEER REVIEWED JOURNALS

S. Suguna, D. Anbuselvi, D. Jayaraman, K.S. Nagaraja, B. Jeyaraj, "Synthesis, Growth, structural and optical studies of organic nonlinear optical material- Piperazine-1,4-diium bis 2,4,6-trinitrophenolate", Spectrochimica Acta Part A: Molecular and BiomolecularSpectroscopyJournal molecular structure, Vol. 132, pp.330-338,2014 (Impact Factor – 1.985)

S. Suguna, , D. Jayaraman, K.S. Nagaraja, B. Jeyaraj, "Synthesis, Growth, structural and optical studies of organic nonlinear optical material- Piperazine-1,4-diium bis dihydrogen phosphate" International Journal of Scientific research 4(2015),49-51 (Impact Factor – 1.85),

S. Suguna, , D. Jayaraman, K.S. Nagaraja, B. Jeyaraj, "Synthesis, Growth, structural and optical studies of organic nonlinear optical material- T-butyl ammonium Maleate monohydrate" International Journal ofChemtech research8(2015)127-130. (Impact Factor – 1.45),

Received"**Best paper presenter award**" in "DAE-BRNS 5th Interdisciplinary symposium on Materials Chemistry (ISMC 2014)", **BARC, Mumbai,**December, 9-13, 2014.

MEMBERSHIP

Life time member - Society for Materials Chemistry (SMC),(Reg.No:Maharastra, Mumbai/F38063/2009), c/o Chemistry Division, Baba Atomic research Centre , Mumbai 400 085.

SPECIAL ACHIEVEMENT

- Six new crystalline compounds and crystallography data were deposited in "**The Cambridge Crystallographic Data Centre (CCDC)**".
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- One novel crystal received **PubMed- ID- 24878440** (piperazine1,4 diium bis 2,4,6 trinitrophenolate).

PAPERS PRESENTED IN INTERNATIONAL/NATIONAL CONFERENCES

- 1. **S.Suguna**,S.Nagaraja,B.Jeyaraj, "Synthesis,Growth, structural and optical and antimicrobial studies of organic nonlinear optical material TBAP" 5th Go Green Summit,Bioleagues, Singapore, October 18-19th 2019.
- 2. **S.Suguna**,S.Nagaraja,B.Jeyaraj"Synthesis, growth, structural and optical properties of DODAP", Emerging materials for green environment(EMGE 2k19) Andhra Loyola college, March-5-2019.
- 3. **S.Suguna**,C.Haritha, V.Ramya"Synthesis, structural, optical properties of PNATA single crystal", EMERGE-2019' Emerging trends in Science and Technology, DR.MGR Educational and Research Institute, Chennai,April 12 2019.
- 4. **S.Suguna**,C.Haritha, D. Poornima devi "Synthesis, structural, optical properties of PNASA single crystal""EMERGE-2019' Emerging trends in Science and

Technology"DR.MGR Educational and Research Institute, Chennai, April 12 - 2019.

- 5. S.Suguna, D.Anbuselvi, D.Jeyaraman, K.S.Nagaraja, B.Jeyaraj "Synthesis, Growth, structural andoptical and antimicrobial studies of organic nonlinearoptical material- Piperazine-1,4-diium bis 2,4,6-trinitrophenolate" 5th DAE-BRNS Interdisciplinary Symposium on Materials Chemistry, Bhaba Atomic Research Centre, Trombay, Mumbai, December 9-13,2014.
- S.Suguna, D.Anbuselvi, D.Jeyaraman, K.S.Nagaraja, B.Jeyaraj "Synthesis, crystal growth and characterizations of t-butylammonium maleate monohydratenovel organic single crystals", National conference on materials for modern world NCMMW 2014, Department of Physics, Easwari Engineering college, Chennai, 10-11th September.
- S.Suguna, D.Anbuselvi, D.Jeyaraman, K.S.Nagaraja, B.Jeyaraj "Nucleation kinetics and solubility studies of Piperazinium picrate Non-linear opticsl single crystal", 3rd International Science Congress (ISC-2013), Karunya University, Coimbatore, December 8th and 9th, 2013.
- S.Suguna, K.S. Nagaraja, B.Jeyaraj, "Synthesis and characterisation of Cobalt-Nickel Vanadate", Fourth International Conference on Recent Advances in Composite Materials (ICRACM-2013), International centre, Goa, February 18-21, 2013.
- 9. **S.Suguna**,K.S.Nagaraja,B.Jeyaraj, "Synthesis of Hexammonium picrate single crystal and its XRD studies", XVII National Seminar on Crystal Growth, Department of Physics, Anna University, Chennai, January 9-11, 2013.
- 10. **S.Suguna**,K.S.Nagaraja,B.Jeyaraj,"Multicomponent Vanadates used as a Gas sensors in an alternative fuels. (Hot disc in cement industry), National Conference on Technology for wealth from waste, LIFE and LICET,LoyolaCollege,Chennai, January8-9, 2013.
- 11. **S.Suguna**, K.S.Nagaraja, B.Jeyaraj "Synthesis and Characterisation of Copper-Zinc Vanadate Nanomaterial"National Conference on Nanomaterials, Karunya University, Coimbatore, December 3-4, 2012.

WORKSHOP, SEMINARS AND CONFERENCES ATTENDED

- 1. National seminar on Thrust areas in Chemistry (STAC-2012) UGC sponsered, Nandanam Government Arts and Science College, Chennai, 16th Fenruary 2012.
- 2. Workshop on Preparation, Characterization of Crystalline materials and their Applications (WPCCMA 2012), organized by Department of Physics, Anna University, Chennai, July16-17, 2012.

3. International Conference on Frontiers in Materials Science for energy and environment (ICFMS-2012), LIFE, Loyola College, Chennai, 11-13 February 2012.

INSTRUMENTS HANDLED

- TG-DTA Instrument
- UV-Vis- Spectrophotometer
- Crystal Growth systems
- FT-IR Spectrophotometer
- High And Low Temperature Furnace Set Up

NATIONAL LABORATORIES VISITED FOR RESEARCH WORK

- > International center for Chemistry research, BITS Pilani, Goa, 2013
- > Crystal growth Centre SSN college of Engineering, Kalavakkam, , 2013.
- National Centre For Ultrafast Processes, Madras University, 2012
- National Polymer Lab and Instrumentation centre, CLRI, Adayar, 2012and 2013.
- Crystal Research Laboratory and Crystal Growth Centre, Anna University, Chennai

CERTIFICATE COURSES

1.	Name of the Institute	:SRM infotech	
	Nature of the Course	: Computer –Cum- Internet Literacy Programme	
	Duration	: One year (2000 – 2001)	

DECLARATION

I hereby declare that particulars and facts stated here in above are true, correct and complete to the best of my knowledge and belief.

Place: Chennai

Sincerely _ (S.SUGUNA)