

Name: Dr. Venkata Sai Dasari
Designation: Asst Professor
Department: H&S Physics
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Experience (in years): 10.1 Teaching: 3.8 years Research: 6.5 years, Others (if any, specify):

1. Educational / Technical qualifications:

S.No	Level (UG / PG / Ph.D)	Year of passing	Specialization
1	BSc Physics, Mathematics, Chemistry	1999-2002	PCM
2	MSc Physics	2002-2004	Physics
3	PhD Physics, University of Hyderabad	2011-2017	Liquid Crystal
4	Postdoc Researcher, Pusan National University, South Korea	2018-2019	

2. Teaching and Learning:

- 2.1. Teaching Interests: Engineering Physics, Applied Physics, Electromagnetic Theory, Photonics, Concepts of Modern Physics, Introduction to Liquid Crystals, Probes of Condensed Matter Physics
- 2.2. Novel Teaching & Learning Techniques adopted: WIT & WIL
- 2.3. Involvement in curriculum updating / Design:

3. Co-curricular and Extra-Curricular Activities

- 3.1. Interests and Hobbies:
 - Teaching
 - Attending new courses and understand research findings
- 3.2. CCA/ECA Organized:
- 3.3. CCA/ECA participated:
- 3.4. Counseling and Mentoring Activity:
- 3.5. Committees involved in:
 - Department level:
 - Institute Level:

4. Conference / Workshop / Seminar / Guest Lectures :

- 4.1 Conducted:
- 4.2 Attended:

Refresher Course:

Two weeks national level Science Academies Refresher Course in QM organized by St. Philomena's College, Mysore association of **three Science Academies** of India 17-31 Dec 2017.

International:

- Attended **13th European Conference on Liquid Crystals**, and presented a **poster** entitled “*Oriental order and visco-elastic properties of a room temperature discotic nematic liquid crystal*” held at **The University of Manchester** during 7th-11th Sept, 2015.
- Attended **International Complex Fluids Conference (CompFlu-2016)**, and presented a **poster** entitled “*Unusual temperature dependence of elastic constants of an ambient temperature discotic nematic liquid crystal*” held at **IISER Pune**, during January 2-4, 2016.

National and other conferences:

- Attended **2nd Soft Matter Young Investigators Meeting**, and presented a **poster** entitled “*Effect of smectic short-range order on the discontinuous anchoring transition in nematic liquid crystals*”, held at Pondicherry during **January 5 - January 7, 2014**.
- Attended **22nd National conference on Liquid Crystals (NCLC-22)**, and given **oral presentation** entitled “*Unusual temperature dependence of splay and bend elastic constants of a discotic nematic liquid crystal*” 21st -23rd Dec 2015 Dehradun, India.
- Attended **20th National conference on Liquid Crystals (NCLC-20)**, and presented a **poster** entitled “*Birefringence, permittivity, elasticity, and rotational viscosity of ambient temperature high birefringent nematic liquid crystal mixtures*” 16th -18th Dec 2013 Manipal, India.
- Attended **19th National conference on Liquid Crystals (NCLC-19)**, 21st -23rd Nov 2012 Patiala, India.
- Attended and presented posters in annual conferences, Frontiers in Physics (FIP), conducted by School of Physics, University of Hyderabad, and Hyderabad.

5. Academic Contribution and Research & Consultancy:

5.1. Invited Lectures:

5.2. Articles / Chapters published in Books:

5.3. Books published as single author or as editor:

5.4. Projects Guided :

a) UG :b) PG :1+3(UOH)

5.5. Research Interests :

5.6. Ph.D students :

a) Enrolled :

b) Submitted :

c) Awarded :

5.7. Papers published in reviewed journals :

S.No	Title of the Paper	Journal Name Vol.No. PP	ISBN/ISSN No.	Impact Factor/ Citation Index	National/ International
1					
2					

5.8. Papers presented at National / International Journals : 9; H-index:6, Citations :103

S.No	Title of the Paper	Journal Name Vol.No. PP	PP ISBN/ISSN No.	Impact Factor/ Citation Index	National/ International
1	Studies on binary mixtures of nematic liquid crystals made of strongly polar molecules with identical cores and antagonistic orientation of permanent dipoles	Journal of Molecular Liquids, 312, 113410 (2020)	0167-7322	5.065	International
2	Effect of Sm-A short-range order on the activation energies of translational and rotational viscosities of nematic liquid crystals with highly polar molecules	PHYSICAL REVIEW E 98 , 062701 (2018)	2470-0045	2.296	International
3	Unusual temperature dependence of splay and bend elastic constants of a discotic nematic liquid crystals.	<i>Soft Matter</i> 12 , 2960, 2016.	1744-683X (print)	3.399	International
4	Experimental studies on the phase diagram and physical properties of mixture of calamitic and discotic nematic liquid crystals	<i>Liquid Crystals</i> , 43, 1884 (2016)	02678292	3.606	International
5	Effect of smectic short-range order on the discontinuous anchoring transition in nematic liquid crystals	<i>THE JOURNAL OF CHEMICAL PHYSICS</i> 141 , 044706 (2014)	0021-9606 (print)	2.991	International
6	Structure-property correlation of bicyclohexane nematic liquid crystals	<i>Liquid Crystals</i> 42 , 3 , 2015.	02678292	3.606	International
7	Birefringence, permittivity, elasticity and rotational viscosity of ambient temperature, high birefringent nematic liquid crystal mixtures	Liquid Crystals 41, 591 (2013)	02678292	3.606	International
8	Possible enhancement of physical properties of nematic liquid crystals doping of conducting polymer nanofibres	APPLIED PHYSICS LETTERS 103 , 141910 (2013)	0003-6951	3.597	International
9	Novel high birefringent isothiocyanates based on quaterphenyl and phenylethynyltolane	Liquid Crystals 40 , 1174 (2013)	02678292	3.606	International

	molecular cores				
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5.9. Sponsored research Projects:

S.No	Title	Agency	Period	Grant amount	Ongoing / Completed

5.10 Consultancy Projects:

S.No	Title	Agency	Period	Sanctioned Amount	Ongoing / Completed

6. Awards / Honors received:

- BK21+ International Postdoctoral Fellowship by South Korea
- Department of science and technology, India, International Travel Grant.
- UPE-II, University of Hyderabad, India, International Travel Grant.
- Best Poster award in Frontiers in Physics (FIP-2016)
Annual conference conducted by University of Hyderabad.
 - **CSIR/UGC-JRF Qualified**
 - **All India GATE-58th Rank,**
 - **All India Jest-91st Rank.**

7. Motto:

[A sense of curiosity is nature's original school of education](#)