

# Dr. S. SHEK DHAVUD

Assistant Professor (Selection Grade)



**PG and Research Department of Physics**  
**Jamal Mohamed College (Autonomous)**  
**Tiruchirappalli-620020.**  
**Tamil Nadu, INDIA.**



amphysics786@gmail.com

sdhavud@gmail.com



91-9443532316

## POSITIONS HELD

- ♦ Assistant Department DBT Star College Scheme Coordinator (2020 onwards)
- ♦ Departmental Placement Officer (2017 onwards)
- ♦ Physics Association Vice-President (2016-2017)
- ♦ Hostel Deputy Warden (2018–2019)
- ♦ Hostel Sub warden (2007-2008)

## EDUCATION

### **Ph.D – 2019**

PG and Research Department of Physics, Government Arts College, Tiruchirappalli

### **M.Phil–2005**

PG and Research Department of Physics, Jamal Mohamed College (Autonomous), Tiruchirappalli - 620020

### **M.Sc.– 2001**

PG and Research Department of Physics, Jamal Mohamed College(Autonomous), Tiruchirappalli – 620020

## PUBLICATIONS, RESEARCH AND TEACHING EXPERIENCE

	Number of Articles/Books Published	Research Experience	Teaching Experience
Research Publications			(UG & PG)
Peer-Reviewed International Journal	10		
International Conferences	05	07 years	17 year s
National Conferences	04		

## DETAILS OF EMPLOYMENT

### ♦ **Assistant Professor**

PG and Research Department of Physics, Jamal Mohamed College, Trichy. **29.08.2007 – Present**

## AREA OF RESEARCH

- ◆ Crystal Growth
- ◆ Thin films
- ◆ Nanomaterials

## SEMINAR ORGANIZED

- National Seminar on “Advanced Materials (NSAM 2020)” [Under UGC Autonomous Grant] 23<sup>rd</sup> January 2020

## EDITOR OF THE BOOK

**Book Title** Advanced Materials  
**Publisher** JAZYM Publication, India

## Orientation / Refresher Course

Name of the Course	Academic Staff College, University	Duration	Date
Orientation Course	UGC Academic Staff College Bharathidasan University Tiruchirappalli	28 days	20.05.2010 to 16.06.2010
Refresher Course I	UGC Academic Staff College Bharathidasan University Tiruchirappalli	21 days	27.01.2012 to 16.02.2012
Refresher Course II	UGC Academic Staff College, Bharathidasan University, Tiruchirappalli	21 days	17.02.2016 to 08.03.2016
Refresher Course III	UGC Academic Staff College, Bharathidasan University, Tiruchirappalli	21 days	20.12.2017 to 09.01.2018

## **MEMBERSHIP IN SCIENTIFIC SOCIETIES**

- ◆ Life Member, Indian Society of Systems for Science & Engineering (ISSE).
- ◆ Indian Association for Crystal Growth

## **LIST OF PUBLICATION IN INTERNATION JOURNALS**

- 1. Effect of amino acid dopants on the spectral, optical, mechanical and thermal properties of potassium acid phthalate crystals for possible optoelectronic and frequency doubling applications**  
Optics & Laser Technology, 2015.
- 2. Influence of L –Histidine Monohydrochloride Dihydrate on the Growth and Properties of Potassium Acid Phthalate Single Crystals for Nonlinear Optical Applications**  
International Journal of Nano Corrosion Science and Engineering, 2015
- 3. Growth and Characterization of L-proline Doped ADP Crystals for Optoelectronic Applications**  
Material Science Research India, 2015.
- 4. Investigations on the Structural, Optical, Mechanical and Microstructural properties of L-Arginine doped SAP crystals- A potential material for NLO applications**  
International Journal of Advanced Scientific Research & Development, 2015
- 5. Effect of semiorganic additive on the growth and characterization of NLO properties of NaAP single crystals for optoelectronic applications**  
International Journal of Advanced Research, 2016.
- 6. Investigation on Synthesis, Characterization and Third order NLO Properties of Undoped and Amino Acid Doped ZTS Crystals for Nonlinear Optical Applications**  
International Journal of Research in Pharmaceutical and Nano Sciences, 2016.
- 7. Investigations on the Effect of Amino Acid doping on the Growth and Characterization of Alkali Metal Acid Phthalate Single Crystals**  
International Journal of Advanced Research, 2017.

8. **Influence of Amino Acid Dopants on the Growth and Properties of Potassium Hydrogen Phthalate Single Crystals for Nonlinear Optical Applications**  
International Journal of Advanced Research, 2017.
9. **Remarkable Effect of Alkali Metal Doping on the Properties of Potassium Hydrogen Phthalate Single Crystals for Optoelectronic and Nonlinear Optical Applications**  
International Journal of Scientific Research in Science, Engineering and Technology, 2017.
10. **Role of  $Al^{3+}$  in Enhancing the Physical Properties of Sodium Para-Nitrophenolate Dihydrate Crystals for Optoelectronic and Nonlinear Optical Applications**  
International Journal of Scientific Research in Science, Engineering and Technology, 2017.

#### **RESEARCH PAPERS PRESENTED IN NATIONAL/INTERNATIONAL CONFERENCES**

1. Presented a research paper with the title of **“Growth and characterization of undoped and L-Valine doped ZTS single crystals for SHG applications”** in the National Seminar on Recent Trends in Crystal Growth and Nano materials (NSCGNM 2014) organized by PG and Research Department of Physics, National College (Autonomous), during 7<sup>th</sup>- 9<sup>th</sup> August 2014, Tiruchirappalli-620001.
2. Presented a research paper with the title of **“Effect of semiorganic additive on the growth and characterization of NLO properties of NaAP single crystals for optoelectronic applications”** in the Second National Conference on Recent Advances in Materials (NCRAM-2014) organized by Department of Physics, B.S. Abdur Rahman University, during 3 & 4 September 2014, Chennai-600048.
3. Presented a research paper with the title of **“Synthesis, growth and characterization of undoped and amino acid doped ZTS single crystals for frequency conversion applications”** in the 19<sup>th</sup> National Seminar on Crystal Growth (NSCG 2015) organized by Department of Physics, VIT University, during 12-14 March 2015, Vellore.

4. Presented a research paper with the title of **“Investigations on the structural, optical, mechanical and microstructural properties of L-Arginine doped SAP crystals - A potential material for NLO applications”** in the UGC Sponsored National Seminar on Laser and Its Applications (LAIA-2015) organized by PG and Research Department of Physics, Jamal Mohamed College (Autonomous), on 16<sup>th</sup> March 2015, Tiruchirappalli-620020.
5. Presented a research paper with the title of **“Effect of amino acid dopants on the spectral, optical, mechanical and NLO properties of KAP single crystals for optoelectronic applications”** in the TEQIP-II Sponsored International Conference on Recent Advancement in Materials (ICRAM-2015) organized by Department of Physics, Bharathidasan Institute of Technology, Anna University, on 16<sup>th</sup> & 17<sup>th</sup> October 2015, Tiruchirappalli – 620024.
6. Presented a research paper with the title of **“Influence of L-Histidine monohydrochloride dihydrate on the growth and properties of potassium acid phthalate single crystals for nonlinear optical applications”** in the International Conference on Chemical and Environmental Research (ICCER 2015) organized by PG and Research Department of Chemistry, Jamal Mohammed College (Autonomous), on 17<sup>th</sup> December 2015, Tiruchirappalli-620020.
7. Presented a research paper with the title of **“Influence of amino acid dopants on the growth and properties of Potassium Hydrogen Phthalate single crystals for Nonlinear optical applications”** in the International Conference on Recent Trends in Materials Science and Applications (ICRTMSA-2016) organized by PG and Research Department of Physics, Jamal Mohammed College (Autonomous), on 29<sup>th</sup> February 2016, Tiruchirappalli-620020.
8. Presented a research paper with the title of **“Investigations on the effect of amino acid doping on the growth and characterization of alkali metal acid phthalate single crystals”** in the International Conference on Recent Trends in Materials Science and Applications organized by PG and Research Department of Physics, Sri Meenakshi Government Arts College for Women (Autonomous), on 6<sup>th</sup> January 2017, Madurai-625002.
9. Presented a research paper with the title of **“Role of Cd<sup>2+</sup> in enhancing the properties of potassium acid phthalate crystal for nonlinear optical applications”** in the International Conference on Chemical and Environmental Research organized by PG and Research Department of Chemistry, Jamal Mohammed College (Autonomous), on 7<sup>th</sup> January 2017, Tiruchirappalli-620020.

10. Presented a research paper with the title of **“Effect of  $\text{Al}^{3+}$  on the growth, structural and physical properties of Sodium para-nitrophenolate dihydrate crystals”** in the 21<sup>th</sup> National Seminar on Crystal growth and applications organized by PG and Research Department of Physics, National College (Autonomous), during 6<sup>th</sup>-8<sup>th</sup> March 2017, Tiruchirappalli-620001.

