

**JAMAL MOHAMED COLLEGE (AUTONOMOUS), TIRUCHIRAPPALLI-20  
DEPARTMENT OF PHYSICS**

**Individual Staff Profile**

**I. General Information**

Name	Dr. A. S. Haja Hameed
Sex	Male
Designation	Asst. Professor of Physics
Date of Birth	29-12-1972
Address	Plot No. 9B, Agila Garden Nakkeeran Street Anbil Nagar Trichy Airport Post Pin 620007
Contact No. & Email	9894864497 & <a href="mailto:hajahameed2001@gmail.com">hajahameed2001@gmail.com</a> or ash@jmc.edu

**II. Academic Qualification**

<b>Academic Qualifications</b>	<b>Examination</b>	<b>Passed Year</b>
Master's Degree	M.Sc	1996
Research Degree	Ph. D	2002
Any other degree/ Diploma/Certificate	PGDCA	1996

**III a. Current and Past positions (Academic responsibilities in Jamal)**

- Coordinator, Jamal Innovation and Incubation Centre (JIIC) - 2021 to till date.
- Convener, Institution's Innovation Council (IIC 4.0 and 5.0), MoE, Govt. of India - 2021 to till date.
- Innovation Ambassador, MoE's Innovation Cell (MIC) - 2021 to till date.
- Coordinator, National Innovation and Startup Policy (NISIP) of JMC - 2022 to till date.
- Member, Research Committee of JMC – 2018 to till date.
- Doctoral Committee Member, JMC – 2008 to till date.
- Member, Internal Board of studies, Department of Physics, JMC – 2007 to till date.
- Academic Council Member – 2020 to till date.
- Member, Micro Quality Assurance Cell (Aided) - 2019-20.
- Member, JMC IPR Cell - 2019 – 21.
- Deputy Warden, Khajamian Hostel Administration, 2020 -2023.

### III b. Research Profiles

<https://www.scopus.com/authid/detail.uri?authorId=55917188200>

<https://www.webofscience.com/wos/author/record/2051628>

<https://orcid.org/0000-0002-1358-0214>

Google Scholar h-index: 20 and i-10 Index: 26

Total citations: 2058

Maximum citations on one of my papers: 387

(The Journal of Physical Chemistry C 118 (18), 9715-9725, 2014)

### IV. Teaching & Research Experience:

<b>i.</b>	<b>UG</b>	<b>15 Years</b>
<b>ii.</b>	<b>PG</b>	<b>15 Years</b>
<b>iii.</b>	<b>M. Phil &amp; Ph.D</b>	<b>14 Years</b>
<b>iv</b>	<b>Research</b>	<b>20 Years (excluding Ph.D period)</b>

### V. Orientation and Refresher courses attended

<b>S. No.</b>	<b>Name of the Course</b>	<b>Name of the sponsoring agency</b>	<b>Place and Date</b>
1	Orientation Course	UGC	Academic Staff College, Bharathidasan University, Tiruchirappalli. 02.03.2010 to 29.03.2010
2	Refresher Course	UGC	Academic Staff College, Bharathidasan University, Tiruchirappalli. 20.11.2012 to 10.12.2012
3	Refresher Course	UGC	Academic Staff College Madras University Chennai 17-11-2015 to 07-12-2015
4	Refresher Course	UGC	UGC-HRDC, Bharathiar University, Coimbatore, 08-09-2021 to 21-09-2021

## VI. Research Projects (Major Research Projects)

S. No	Title of the project	Name of the funding Agency	Amount in Rs.	Duration
1	Crystal growth of technologically important nonlinear optical material: DAST and fabrication of optical devices for ready commercialization	UGC, Major Research Project	10,32,300/-	(2010-2013) Completed
2	Implementation of twozone growth method to the growth of high-quality L-Arginine family crystals for Second Harmonic Generating (SHG) elements and Electro-optic modulators	DST, SERB Major Research Project	22,50,000/-	2014-2017 (Completed)

## VII. Research Interest and Area of Specialization:

- ✓ Growth and characterization of optical thin films, Semiconductor nanostructures & Magnetic nano-particles, Fabrication of Photonic crystals by Sol-Gel, Growth and characterization of Non-Linear Optical (NLO) crystals

## VIII. Work experience:

- ✓ **Project Assistant**, TNSCST Project, Alagappa University, India, 1996-1999.
- ✓ **Senior Research Fellow**, awarded by Council for Scientific and Industrial Research (CSIR), New Delhi, Govt. of India, 2000-2002.
- ✓ **Special Researcher**, Chitose Institute of Science and Technology (CIST), Hokkaido, Japan, Nov 2002-June 2003.
- ✓ **Postdoctoral Fellow**, National Taiwan University, Taipei, Taiwan, Oct 2003-Oct 2005.
- ✓ **Postdoctoral Fellow**, University of Western Ontario, London On, Canada, Jan 2006 – Dec. 2006.

- ✓ **Assistant Professor (AICTE)**, Dept. of Computer Science, Jamal Mohamed College, Bharathidhasan University, India, Jan 2007 – Aug. 2007.
- ✓ **Assistant Professor**, Dept. of Physics, Jamal Mohamed College, Bharathidhasan University, India, Aug. 2007 – till date.

#### **IX. Awards & honours received:**

- ✓ Senior Research Fellow, awarded by Council for Scientific and Industrial Research (CSIR), New Delhi, Govt. of India, 2000-2002.
- ✓ Principal Investigator worked in UGC Major Research Project (Rs.10,32,300/-) -2010-2013.
- ✓ Invited for oral presentation for the paper” Fabrication and characterization of DNA-lipid complex films for optical amplification” in Nano conference (2009), The international conference for nanotechnology industries, King Saud university.
- ✓ Principal Investigator, SERB Major Research Project (Rs. 22, 50,000/-) 2014-17, Department of Science & Technology (DST), Govt. of India.
- ✓ Young Scientist, SERB Major Research Project, Department of Science & Technology (DST), Govt. of India, 2014.

#### **X. List of Publications:**

##### **1. Growth and characterization of L-Arginine Phosphate family crystals**

**A.S. Haja Hameed**, G.Ravi, Md.M.Hossain and P.Ramasamy

J. Crystal Growth, 204(1999) 333-340.

##### **2. Effect of temperature and deuterium concentration on the growth of Deuterated Potassium**

**Dihydrogen Phosphate (DKDP) single crystals** G.Ravi, **A. S. Haja Hameed** and P.Ramasamy

J. Crystal Growth, 207(1999) 319-324.

##### **3. Studies on organic Indole-3-Aldehyde single crystals**

**A. S. Haja Hameed**, G.Ravi, R.Dhanasekaran and P.Ramasamy

J. Crystal Growth, 212(2000) 227-232.

- 4.** Inhibition of microbial growth, study of solution stability, growth and characterization of Potassium Fluoride mixed L-Arginine Phosphate single crystals  
**A. S. Haja Hameed**, G.Ravi and P.Ramasamy  
J. Crystal Growth, 229(2001) 547-552.
- 5.** Growth of DAST in straight chain alcohols and their characterization studies A.NixonAzariah, G.Ravi, **A. S. Haja Hameed**, T.Gurumurthi and P.Ramasamy Proc. of International conference on Photo responsive Organics and Polymers (ICPOP'01), Cheju Island, Korea, Vol. 1 (2001) pp. 481-482.
- 6.** Growth and characterization of deuterated analog of L-Arginine Phosphate single crystals  
**A. S. Haja Hameed**, G.Ravi, R.Ilangovan, A.NixonAzariah and P.Ramasamy  
J. Crystal Growth, 237-239 P1(2002) 893-896.
- 7.** Growth and optical characterization of organic nonlinear optical crystal: Indole-3-Aldehyde  
**A. S. Haja Hameed**, G.Ravi, A.NixonAzariah and P.Ramasamy  
Journal of Physics and Chemistry of Solid, 64(2003) 147 – 153.
- 8.** Growth of stubbier habit LAP2 single crystals and their characterization  
**A. S. Haja Hameed**, G.Ravi and P.Ramasamy  
Materials Science and Engineering B 95 (2002) 61-66.
- 9.** Synthesis, growth and characterization of nonlinear optical material: L-Arginine Fluoride  
**A. S. Haja Hameed**, P. Anandan, R. Jayavel, P. Ramasamy and G. Ravi  
J. Crystal Growth 249(2003) 316-320.
- 10.** Nucleation, growth and characterization of dLAP, dLAP:KF and dLAP:NaN<sub>3</sub> crystals  
**A. S. Haja Hameed**, G.Ravi, R. Jayavel and P.Ramasamy  
J. Crystal Growth 250(2003) 126 – 133.
- 11.** Optical Amplification Properties of a Cyanine dye-doped DNA-Lipid Complex Fiber  
**A. S. Haja Hameed**, M. Wada, K. Ishihara, Y. Kagami, T. Ishikawa and S. Horinouchi  
Organic Photonic Materials and Devices V, Proceedings of SPIE Vol. 4991 (2003) 166 – 174.
- 12.** Nucleation, growth and characterization of L-tartaric acid-nicotinamide NLO crystals  
**A. S. Haja Hameed** and C.W. Lan  
J. Crystal Growth 270 (2004) 475 -480.

- 13.** Crystal growth and characterization of 4-nitro-4'-methoxy benzylideneaniline (NMOBA)  
A. Nixon Azariah, **A. S. Haja Hameed**, T. Thenappan, M. Noel and G.Ravi Materials Chemistry and Physics 88 (2004) 90-96.
- 14.** Synthesis, growth and characterization of new mixed analogs of LAP family crystals  
R. Shanmugavadivu, G. Ravi, **A. S. Haja Hameed** and T. Thenappan Materials Science and Engineering B 113(2004) 269-273.
- 15.** Studies on amino acids admixture Triglycine Sulphophosphate (TGSP) crystals  
**A. S. Haja Hameed**, G. Ravi and C.W. Lan  
J. Crystal Growth 275 (2005) e1461-e1465.
- 16.** An investigation on the growth and characterization of DAST crystals grown by two zone growth technique  
**A. S. Haja Hameed**, W.C. Yu, Z.B. Chen, C.Y. Tai and C.W. Lan  
J. Crystal Growth 282 (2005) 117-124
- 17.** Effect of Sodium Toluenesulfonate on the Nucleation, Growth and Characterization of DAST Single Crystals  
**A. S. Haja Hameed**, W.C. Yu, C. Y. Tai and C.W. Lan  
J. Crystal Growth, 292 (2006) 510 -514.
- 18.** Surface defects and mechanical hardness of rapidly grown DAST crystals **A.S.Haja Hameed**, S. Rohani, W.C. Yu, C.Y. Tai and C.W. Lan  
J. Crystal Growth 297 (2006) 146-151.
- 19.** Growth and characterization of a new chelating agent added 4-dimethylamino-N-methyl-4stilbazoliumtosylate (DAST) single crystals  
**A. S. Haja Hameed**, S. Rohani, W.C. Yu, Z.B. Chen, Y.C. Liu, C.Y. Tai and C.W. Lan Materials Chemistry and Physics, 102 (2007) 60-66.
- 20.** Nucleation studies and surface SHG analysis of L-arginine phosphate monohydrate (LAP) family crystals.  
**A. S. Haja Hameed** and S. Rohani Materials Letters 61 (2007) 5141 -5144.
- 21.** Characterization studies on the additives mixed L-arginine phosphate monohydrate (LAP) crystals  
**A. S. Haja Hameed**, C. Karthikeyan, G. Ravi and S. Rohani Physica B 406 (2011)1363-1367.

- 22.** Effects of chloroacetamide on the growth and characterization of nitric acid added triglycinesulphate crystals.  
**A.S. Haja Hameed**, C.Karthikeyan , Golda Louis and G.Ravi Journal of Crystal Growth 339 (2012) 46–51.
- 23.** Spectroscopic investigation on the efficient organic nonlinear crystals of pure and diethanolamine added DAST  
C. Karthikeyan, **A. S. Haja Hameed**, J. Sagaya Agnes Nisha and G. Ravi SpectrochimicaActa Part A: Molecular and Biomolecular Spectroscopy, 115 (2013) 667–674.
- 24.** Impact of alkaline metal ions  $Mg^{2+}$ ,  $Ca^{2+}$ ,  $Sr^{2+}$  and  $Ba^{2+}$  on the structural, optical, thermal and antibacterial properties of ZnO nanoparticles prepared by the coprecipitation method  
**A. S. Haja Hameed**, C. Karthikeyan, S. Sasikumar, V. Senthil Kumar, S. Kumaresan and G. Ravi Journal of Material Chemistry. B, 1 (2013) 5950–5962.
- 25.** Effect of Cobalt Doping on Structural, Optical, and Magnetic Properties of ZnO Nanoparticles Synthesized by coprecipitation Method  
G. Vijayaprasath , G. Ravi, **A. S. Haja Hameed** and T. Mahalingam Journal of Physical Chemistry C, 2014, 118, 9715–9725.
- 26.** Synthesis of cerium oxide nanoparticles using Gloriosasuperba L. leaf extract and their structural, optical and antibacterial properties  
A. Arumugam, C. Karthikeyan, **A. S. Haja Hameed**, K. Gopinath, S. Gowri and V. Karthika Materials Science and Engineering C 49 (2015) 408–415.
- 27.** Effect of  $Mg^{2+}$ ,  $Ca^{2+}$ ,  $Sr^{2+}$  and  $Ba^{2+}$  metal ions on the antifungal activity of ZnO nanoparticles tested against Candida albicans  
**A. S. Haja Hameed**, C. Karthikeyan, V. Senthil Kumar and S. Kumaresan Materials Science and Engineering C 52 (2015) 171-177
- 28.** Phytochemical Synthesis and Crystallization of Sucrose from the Extract of Gloriosasuperba  
K. Gopinath, C. Karthikeyan, **A. S. Haja Hameed**, K. Arunkumar and A. Arumugam Research Journal of Phytochemistry 9 (2015) 144-160.

**29.** Influence of organic dopands on the optical properties of 4-N-N'-dimethylamino-N-methyl stilbazoliumtosylate crystals

**A.S. Haja Hameed**, C.Karthikeyan , J. Agnes Nisha, GoldaLouis and G.Ravi

Optik 127 (2016) 4011-4018.

**29.** In vitro antibacterial activity of ZnO and Nd doped ZnO nanoparticles against ESBL producing Escherichia coli and Klebsiella pneumoniae

**A. S. Haja Hameed**, C. Karthikeyan, A. Parveez Ahamed 2, N. Thajuddin, N. S Alharbi, S. A. Alharbi, G. Ravi,

Scientific Reports 6, 24312, 2016.

**30.** Synthesis, characterization and cytotoxicity studies of CuO nanoparticles by using Gymnema sylvestre leaf extracts

AJ Ahamed, PV Kumar, K Loganathan, C Karthikeyan, **A.S. Haja Hameed**

J. Indian Chem Soc 93, 655-660, 2016.

**31.** Growth and characterization of pure, chloroacetamide and 4-dimethylaminobenzaldehyde doped triglycine sulphophosphate (TGSP) crystals

G Louis, **A.S.Haja Hameed**, C Karthikeyan, G Ravi

Journal of Materials Science: Materials in Electronics 28, 1652-1658, 2017.

**32.** Biosynthesis of Novel Zinc Oxide Nanoparticles (ZnO NPs) Using Endophytic Bacteria Sphingobacterium thalpophilum

N Rajabairavi, CS Raju, C Karthikeyan, **A.S. Haja Hameed**. K Varutharaju, S Nethaji

Recent Trends in Materials Science and Applications: Nanomaterials, Crystal, p58,2017.

**33.** ROS-mediated cytotoxic activity of ZnO and CeO<sub>2</sub> nanoparticles synthesized using the Rubia cordifolia L. leaf extract on MG-63 human osteosarcoma cell lines

N Sisubalan, VS Ramkumar, A Pugazhendhi, C Karthikeyan, **A.S. Haja Hameed**, K Indira,

Environmental Science and Pollution Research 25, 10482-10492, 2018.

**34.** Impact of l-Arginine and l-Histidine on the structural, optical and antibacterial properties of Mg doped ZnO nanoparticles tested against extended-spectrum beta-lactamases

**A.S.Haja Hameed**, G Louis, C Karthikeyan, N Thajuddin, G Ravi

Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy 211, 373-382, 2019.



- 35.** Structural, optical, thermal and magnetic properties of nickel calcium and nickel iron co-doped ZnO nanoparticles  
C Karthikeyan, L Arun, **A.S.Haja Hameed**, K Gopinath, L Umaralikahan  
Journal of Materials Science: Materials in Electronics 30, 8097-8104, 2019.
- 36.** Synergistic Antibacterial Effect of the Magnesium-Doped ZnO Nanoparticles with Chloramphenicol  
K Chandrasekaran, K Varaprasad, SK Venugopal, L Arun, **A.S. Haja Hameed**  
BioNanoScience, 1-6, 6, 2019.
- 37.** Biomolecule chitosan, curcumin and ZnO-based antibacterial nanomaterial, via a one-pot process  
C Karthikeyan, K Varaprasad, A Akbari-Fakhrabadi, **A.S.Haja Hameed**,  
Carbohydrate Polymers 249, 116825, 2020.
- 38.** Biocidal activity of Ba<sup>2+</sup>-doped CeO<sub>2</sub> NPs against Streptococcus mutans and Staphylococcus aureus bacterial strains  
RVRS Natarajan Sisubalan, **A.S. Haja Hameed**, c. Karthikeyan, Venugopal Senthil Kumar  
RSC Advances 11 (49), 30623-30634, 2021.
- 39.** Nanorod-like Structure of ZnO Nanoparticles and Zn<sub>8</sub>O<sub>8</sub> Clusters Using 4-Dimethylamino Benzaldehyde Liquid to Study the Physicochemical and Antimicrobial Properties of Pathogenic Bacteria  
HSK Sivalingam Ramesh, C. Karthikeyan, **A. S. Haja Hameed**, N. Afsar, Arumugam  
Nanomaterials 13 (1), 166, 2023.
- 40.** Size-dependent cellular uptake of sodium alginate passivated tin dioxide nanoparticles in triple-negative breast cancer cells  
C. Karthikeyan, K. Varaprasad, S. Kim, AK. Jangid, W. Lee, **A. S. Haja Hameed**, K. Kim  
Journal of Industrial and Engineering Chemistry, 2023 (In press).

## XI. List of Research papers presented / participated in Conferences/Seminars:

1. Growth and surface analysis of device quality nonlinear crystals, G. Ravi, **A. S. Haja Hameed** and P. Ramasamy, XXI National Conference of the Electron Microscope Society of India, Trivandrum December 17-19, 1997.
2. Study of improving material purity for the growth of device quality KDP crystals, G. Ravi, **A. S. Haja Hameed** and P. Ramasamy, National Seminar on Material Science: An Indian Scene, Tiruchirapalli January 19-20, 1998.
3. Growth and characterization of potentially applicable nonlinear crystals, G. Ravi, **A. S. Haja Hameed** and P. Ramasamy, Twelfth International Conference on Crystal Growth, Israel, July 26-31 1998.
4. Studies on L-Arginine Phosphate and its family of single crystals, G. Ravi, **A. S. Haja Hameed** and P. Ramasamy, The 5th International Conference on Material Science (IUMRS), Bangalore, October 13-16, 1998.
5. Growth and device characterization on amino mixed TGS crystals, G. Ravi, **A. S. Haja Hameed** and P. Ramasamy, 2nd Asian Meeting on Ferroelectrics (International) at School of Electrical Electronic Engg., Nanyang Technological University, Singapore, Dec. 7-11, 1998.
6. Effect of metallic dopants on Triglycine Sulpho Phosphate single crystals, G. Ravi, **A. S. Haja Hameed** and P. Ramasamy, X National Seminar on Ferroelectrics and Dielectrics, Indian Institute of Technology, Chennai, December 16-18, 1998.
7. Growth and properties of amino acids mixed Triglycine Sulpho phosphate single crystals, G. Ravi, **A. S. Haja Hameed** and P. Ramasamy, Seventh National Science Tamil Conference, Mononmanium Sundaranar, University, Alwarkuruchi (Thiruvallur), Dec. 26-27, 1998.
8. Growth and characterization of alkali halides mixed L-Arginine Phosphate single crystals, G. Ravi, **A. S. Haja Hameed** and P. Ramasamy, 8th National Seminar on Crystal Growth, Anna University, Madras, February 2-4, 1999.
9. Growth and characterization of tetragonal Deuterated Potassium Dihydrogen Phosphate (DKDP) crystals potentially applicable to electro-optic Modulators, **A. S. Haja Hameed**, G. Ravi, Md. M. Hossain and P. Ramasamy, National seminar on recent trends in materials science, Alagappa University, Karaikudi, May 3, 1999.

10. Two dimensional theoretical approach on InAs<sub>x</sub>P<sub>1-x</sub> LPE growth by Numerical simulation technique, Md.M. Hossain, R.Dhanasekaran, G.Ravi, **A. S. Haja Hameed** and P.Ramasamy, National seminar on recent in materials science, Alagappa University, Karaikudi, May 3, 1999.
11. Characterization of organic Indole-3-Aldehyde single crystals, **A. S. Haja Hameed**, G.Ravi, R.Dhanasekaran and P.Ramasamy, National Laser Symposium, School of Physics, University of Hyderabad, Hyderabad, December 15-17, 1999.
12. Growth, structural, optical and thermal characterization of L-Arginine Fluoride single crystals, **A. S. Haja Hameed**, G.Ravi and P.Ramasamy, XXX National Seminar on Crystallography, Sri Venkatesvara University, Tirupathi, June 28 –30, 2000.
13. Metastable zone width, etching and SEM studies of organic indole-3-aldehyde single crystals, **A. S. Haja Hameed**, F.Sabeena, G.Ravi and P.Ramasamy, Symposium on Crystal Growth of Laser related materials, Crystal Growth Centre, Anna University, Chennai., Aug. 7-6, 2000.
14. Growth and characterization of L-Arginine Fluoride single crystals, **A. S. Haja Hameed**, G.Ravi, A.NixonAzariah and P.Ramasamy, Twelfth American Conference on Crystal Growth and Epitaxy, at Colorado, USA., Aug 13 – 18, 2000.
15. Growth, solution stability and surface analysis of organic Indole-3-Aldehyde single crystals, **A. S. Haja Hameed**, G.Ravi, A. Nixon Azariah and P.Ramasamy, Ist Asian Conference on Crystal Growth and Crystal Technology, Sendai, Japan. Aug. 29-Sep1, 2000.
16. Growth and characterization of metals doped TriglycineSulphate mixed with L-alanine (ATGS) single crystals, **A. S. Haja Hameed**, A. Nixon Azariah, G.Ravi and P.Ramasamy XI National Seminar on Ferroelectrics and Dielectrics, University of Jammu, Jammu, Nov. 1-3,2000.
17. Growth, structural, thermal and optical studies of deuterated L-Arginine Phosphate (dLAP) single crystals, **A. S. Haja Hameed**, G.Ravi, A. Nixon Azariah and P.Ramasamy, International Workshop on Preparation and characterization of technologically Important Single crystals, National Physical Laboratory, New Delhi, Feb. 26-28, 2001.

18. Effect of L-lysine on the solution stability, growth and characterization of Triglycine Sulphate single crystals, S.Arulmozhi Packiaseeli, S.Sankar, G.Ravi, **A. S. Haja Hameed** and P.Ramasamy, National Seminar on Current Trends in Material Science –200, Mahatma Gandhi University, Kottayam, March 23-24, 2001.
19. Growth, structural, thermal and optical studies of deuterated L-Arginine Sulpho Phosphate (dLASP) single crystals, **A. S. Haja Hameed**, G.Ravi, A. Nixon Azariah and P.Ramasamy, National Seminar on Current Trends in Material Science –200, Mahatma Gandhi University, Kottayam, March 23-24, 2001.
20. Growth of orthorhombic LAP2 single crystals and its characterization, **A. S. Haja Hameed**, G.Ravi, R.Ilangovan and P.Ramasamy, The Thirteenth International Conference on Crystal Growth (ICCG-13), Doshisha University, Kyoto, Japan, July 30 – August 4, 2001.
21. Solvent effects on the solubility and nucleation of 4-Nitro-4'-Methoxy Benzylidene Aniline, A.NixonAzariah, G.Ravi, **A. S. Haja Hameed**, M. Noal and P.Ramasamy, The Thirteenth International Conference on Crystal Growth (ICCG-13), Doshisha University, Kyoto, Japan, July 30 – August 4, 2001.
22. Impact of solvents, morphological, structural and thermal features of NMOBA, A. Nixon Azariah, G.Ravi, **A. S. Haja Hameed** and P.Ramasamy, International conference on Photo responsive Organics and Polymers, (ICPOP'01), Hannam University, Korea and Tohoku University, Japan, August 19-25, 2001.
23. An investigation on the nucleation, growth and characterization of organic nonlinear optical crystal: L-tartaric acid –nicotinamide (LTN), **A. S. Haja Hameed**, C.I. Wu and C.W. Lan, The Fourteenth International Conference on Crystal Growth (ICCG-14), Grenoble, France, August 9-13, 2004.
24. Characterization studies of a hybrid nonlinear optical material:3-Nitroaniline Dihydrogen Phosphate, **A. S. Haja Hameed**, C.I. Wu and C.W. Lan, The Fourteenth International Conference on Crystal Growth (ICCG-14), Grenoble, France, August 9-13, 2004.
25. Effect of NaTS on the Nucleation, Growth and Characterization of DAST Single crystals, **A. S. Haja Hameed**, W.C. Yu, C.Y. Tai and C.W. Lan, The 3rd Asian Conference on Crystal Growth and Crystal Technology (CGCT-3), China, October 16-19, 2005.
26. State Level Seminar on Recent trends in Power Science UGC Department of Physics, Jamal Mohamed College, 23-07-2008.

27. Awareness Programme on Nanotechnology (APNT), Bharathidasan University Centre for nanoscience & nanotechnology, School of Physics, Bharathidasan University, 27-02-2010-2802-2010.
28. State Level Seminar on Advanced Research in Physics – A Few Perspectives, UGC, Department of Physics, Jamal Mohamed College, 28-02-12.
29. National Level seminar on Nanoscience and laser materials processing, UGC, Department of Physics, Jamal Mohamed College,09-03-2013.
30. International Seminar on Crystalline materials and Optoelectronic devices, UGC, Department of Physics, Jamal Mohamed College,03-02-2014.
31. State Level Seminar on Avenues for Higher Scientific Pursuits (AHSP-2014), Jamal Mohamed College, Department of Physics, Jamal Mohamed College,08-09-2014.
32. A three-Day Workshop on Amateur Radio, Jamal Mohamed College, Department of Physics, Jamal Mohamed College,13-03-2015 to 15-03-2015.
33. Fabrication and characterization of DNA-lipid complex films for optical amplification, **A. S. Haja Hameed**, Nano conference (2009), The international conference for nanotechnology industries, King Saud university.
34. Structural and photoluminescence properties of ZnO nanoparticles synthesized by sol-gel method using different solvents, **A. S. Haja Hameed**, C. Karthikeyan and G. Ravi. 1st International Conference on Emerging Advanced Nanomaterials, The University of Queensland, Brisbane, Australia. Hotel Mercure, Brisbane, Australia 22-10-2012 to 25-10-2012.

## XII. Research Guidance:

Academic year	No. of Candidates		
	Awarded	Submitted	Pursuing
M.Phil - (2008–2016)	<b>19</b>	-	-
M.Phil - (2017–2023)	<b>14</b>	-	-
Ph.D - 2010- till date	<b>2</b>		<b>1</b>

**XIII. List of M. Phil candidates Completed:**

<b>S. No</b>	<b>Name of the Candidate</b>	<b>Registration No.</b>	<b>Month-year</b>
1	R. Gowthar	09MFPH08	August-2010
2	S. Priya	09MFPH15	August-2010
3	K. Karthick	10MFPH02	August-2011
4	M. Amali	10MPPH10	Febraury-2012
5	G. Elavarasi	10MPPH11	Febraury-2012
6	A. Sundhandira Raja	11MPFPH014	August-2012
7	M. Parabakaran	11MPFPH009	August-2012
8	P. Kathiravan	11MPFPH004	August-2012
9	S. S. Karthik	12MPFPH008	August-2013
10	S. Thiruvarasu	12MPFPH002	August-2013
11	A. Rahamathulla	12MPPPH004	October-2014
12	R. Prabakaran	13MPFPH005	August-2014
13	K. K. Selva Kumar	13MPFPH007	August-2014
14	A. Nagarajan	14MPFPH004	August-2015
15	K. Vishnu Kumar	14MPPPH012	March-2016
16	M. Jeyaram	14MPPPH013	March-2016
17	P. Loganathan	14MPPPH017	March-2016
18	R. Saraswathi	14MPPPH024	March-2016
19	M. Munusamy	15MPFPH002	September-2016
20	M. Kayal Vizhi	15MPPPH013	March-2017
21	K. Malavika	15MPPPH018	March-2017
22	H. Mohamed Ismail	16MPFPH001	September 2017
23	G. Ramkumar	16MPPPH004	May-2018
24	T. Vijayarani	16MPPPH009	May-2018
25	S. Parves Fathima	16MPPPH011	May-2018
26	S.Ponnaiyan	17MPFPH001	December-2018

27	E. John Raja	17MPPPH002	June-2019
28	K. Ramesh	17MPPPH005	June-2019
29	J. Shobana	18MPFPH006	August-2019
30	Geetha A	18MPPPH014	May-2020
31	Sathish Kumar D	18MPPPH008	May-2020
32	B. Sangeetha	19MPPPH008	December-2021
33	D. Sundararaj	20MPPPH003	September-2022
34	Silambuselvi G	20MPPPH014	December-2022

**XIV. List of Ph.D candidates completed/thesis submitted/pursuing**

<b>S. No</b>	<b>Name of the Candidate</b>	<b>Registration</b>	<b>Broad Area of Research</b>
1	C. Karthikeyan	Completed (2014)	Organic NLO materials, metal oxide nanoparticles and their biomedical applications
2	Golda Louis	Completed (2018)	Growth and Characterization of organic NLO materials