

CURRICULUM VITAE

Personal Details

Name : **Dr. AHIPA T. N.**
Office Address : **Assistant Professor**
Centre for Nano and Material
Sciences Jain Global Campus,
Jakkasandra
Post,
Kanakapura
Taluk,
Ramanagara District,
Karnataka. Email:
tn.ahipa@jainuniversity.ac.in
ahipatn@gmail.com
Mobile: 9480170854
Webpage: <http://cnms.jainuniversity.ac.in/Faculty-Ahipa.htm>

ORCID ID : 0000-0002-7550-994X
Scopus Author ID :
55037457000 *Researcher ID*
: N-2268-
2018*Scopus ID* :
55037457000

Residency Address : S/o Nagaraja Bhatt T. S.,
M. K. Street,
Sringeri Taluk,
Chickmagalur
Dist.Pin Code:
577 139

Father's Name : Late Nagaraja Bhatta T.S.
Mother's Name : Bhagya
Date of Birth : 23-07-1986
Place of birth : Koppa, Chikmagalur District
Sex : Male



Marital Status : Married
Nationality : Indian
Languages Known : English, Kannada (Mother Tongue)
Hobbies : Reading Books; Photography.

Education

Degree	Duration
Ph.D. in (Synthetic) Organic Chemistry from National Institute of Technology Karnataka, Surathkal, Mangalore, India.	2010-2014
Title of Thesis: “Synthesis, characterization and mesomorphic properties of new pyridine derivatives” under the guidance of Prof. A. V. Adhikari.	
Degree awarded in the year 2014.	
Five years integrated M.Sc (Hons) in Applied Chemistry from Sahyadri Science College (affiliated to Kuvempu University), Shimoga, India.	2004-2009
Degree awarded in the year 2009.	

Current Position: *Professional Experience*

Assistant Professor at Centre for Nano and Material Science, Jain University, JainGlobal Campus, Jakkasandra Post, Kanakapura Taluk, Ramanagara District, Karnataka.

Period: 1st September 2015 to till date.

Research Area: Organic Synthesis; Luminescent Liquid Crystals; Conjugated Polymers, Hole Transporting Materials, Solar Cells.

Previous employment:

1. **Senior Research Associate** at Centre for Nano and Material Science, Jain University, Jain Global Campus, Jakkasandra Post, Kanakapura Taluk, Ramanagara District, Karnataka.

Period: 1st April 2014 to 31st August 2015.

Research Area: Synthesis of conjugated polymer for Organic Solar Cell Application.

2. **Research Scholar** at National Institute of Technology Karnataka (NITK) –Surathkal, Mangalore, Karnataka.

Period: 20th Dec. 2010 to 31st March 2014

Research Area: Organic Luminescent Liquid Crystals.

3. **Junior Research Fellow** at Indian Plywood Industries Research and Training Institute, Bangalore, Karnataka.

Period: 20th Oct. 2009 to 13th Dec. 2010

Project: Synthesis, Extraction & Characterization of Furfural based various Resin.

Research Activities

- Developed Synthetic Organic Chemistry Laboratory augmented the facilities with vital requirements for the smooth synthesis, isolation and purification of organic compounds.
- Successfully supervised one PhD student, eight M.Sc students and three Project Fellows for their project work since the date of joining the institute. In addition, three Ph.D. and two M.Sc students are pursuing their project work.
- Credit for 39 publications in peer reviewed national/ international

journals out of which 30 are research articles and 9 are review articles and 24 research paper presentations in national/international conferences.

- Two research projects with a total worth of 59,22,264-00 funded by an external agency (Young Scientist Scheme, SERB and Core Research Grant, SERB) as principal investigator out of which the first project is completed and the second project is under progress.
- Reviewing the research papers of reputed journals (Solar Energy, Journal of Molecular Liquids, Dyes and Pigments, RSC Advances, Journal of Luminescence, Environmental Progress & Sustainable Energy, International Journal of Polymer Science, Journal of Scientific & Industrial Research, Optical Engineering, Journal of Molecular Structure, ChemistrySelect, Materialstoday Proceedings, Letters in Organic Chemistry, etc.) and reporting the comments to the editor.
- Attending the national/ international conferences and workshops to interact with top level scientists/ researchers.

Teaching Activities

- Taught, developed and coordinated courses for MSc Chemistry.
- Modernized laboratories introduced new experiments and authored laboratory manuals for labs. Developed course work and experiments for new PG laboratories.

Membership/Professional Affiliations

NATIONAL:

- Life member, Indian Council of Chemists, Agra, India (Membership No.:LF/1826)

INTERNATIONAL:

- Life member, Asian Polymer Association (Membership No.: L532)

Editorial Board Member

- Associate Editorial Board Member [Field: Polymer Chemistry] for the journal “Current Indian Science”, Bentham Science, (Duration (2 years): March 22, 2022 to March 21, 2024)
- International Journal of Energy and Environmental Science

(IJEES)- SciencePublishing Group (Duration: Dec 28, 2018 to Dec. 31, 2020)

Research Projects Undertaken

Ongoing project, 2020-23 (three years): *Design and development of new cost effective carbazole based hole transporting materials for perovskite solar cells* sanctioned by **Science and Engineering Research Board (SERB)** under the scheme of **Core Research Grant (CRG)** (Project amount of **39,82,264-00**). Grant Number: CRG/2020/003151; Project start date: 22nd-December-2020.

Completed project, 2015-18 (three years): *Luminescent Liquid Crystals for Organo- electronic Devices* sanctioned by **Science and Engineering Research Board (SERB)** under the scheme of **Young Scientist** (Project amount of **19,40,000-00**). Grant Number: YSS/2014/000835; Project start date: 14-Oct-2015; End date: 13-Oct-2018. (3 Years).

Publications

Book Chapters:

1. Deepak Devadiga and **T.N. Ahipa** (January 2nd 2020). Betanin: A Red-Violet Pigment - Chemistry and Applications [Online First], IntechOpen, DOI: 10.5772/intechopen.88939. Available from: <https://www.intechopen.com/online-first/betanin-a-red-violet-pigment-chemistry-and-applications>.

Papers published in international journals:

Research Articles:

1. Devadiga, D.; Selvakumar, M.; Shetty, P.; Mahesha, M. G.; Devadiga, D.; **Ahipa, T. N.**; Kumar, S. S., Novel photosensitizer for dye-sensitized solar cell based on ionic liquid-doped blend polymer electrolyte. *Journal of Solid State Electrochemistry* **2021**, 25 (4), 1461-1478. (IF: **2.646**). **Q2-Journal**
2. Devadiga, D.; **Ahipa, T. N.**, Cyanopyridone doped PMMA films as UV and blue light filters: Preparation and characterization. *Optik* **2021**, 229, 166233. (IF: **2.443**). **Q1- Journal**
3. Gautam, A.; Shahini, C. R.; Siddappa, A. P.; Jan Grzegorz, M.; Hemavathi, B.; **Ahipa, T. N.**; Srinivasa, B., Palladium(II) complexes of coumarin substituted 1,2,4-triazol-5-ylidenes for catalytic C-C cross-coupling and C-H activation reactions. *Journal of Organometallic Chemistry* **2021**, 934, 121540. (IF: **2.369**). **Q1-Journal**
4. Swathi, M. G.; Devadiga, D.; **Ahipa, T. N.**, Mechanochromic studies of new cyanopyridone based fluorescent conjugated molecules. *Journal of Luminescence* **2020**, 217, 116818. (IF: **3.599**). **Q1-Journal**
5. Hemavathi, B.; V, J.; Ramamurthy, P. C.; Pai, R. K.; K. N, N. U.; **T. N. Ahipa**; Soman, S.; Balakrishna, R. G., Variation of the donor and acceptor in D-A- π -A based cyanopyridine dyes and its effect on dye sensitized solar cells. *New Journal of Chemistry* **2019**, 43 (39), 15673-

15680. (IF: 3.591) Q2-Journal

6. B, H.; S, A.; Shanmukappagouda; J, K.; Devaiah C, T.; R, S.; Balakrishna, R. G.; T.N, Ahipa., New 2-methoxy-4,6-bis(4-(4-nitrostyryl)phenyl)nicotinonitrile: Synthesis, characterization and DSSC study. *Journal of Photochemistry and Photobiology A: Chemistry* **2019**, 377, 75-79. (IF: 4.291) Q2-Journal

7. Hemavathi, B.; Jagadish, K.; **Ahipa, T. N.**; Balakrishna, R. G., Fabrication of TiO₂/poly (3-Cyanopyridine-fluorene) hybrid nanocomposite as electron transport layer for dye sensitized solar cell. *Journal of Electroanalytical Chemistry* **2019**, 838, 136-141. (IF: 4.464) Q1-Journal

8. Manohara, H. M.; Trupthi Devaiah, C.; Hemavathi, B.; **Ahipa, T. N.**, Synthesis, optical and electrochemical properties of new cyanopyridine derivatives. *Journal of Luminescence* **2019**, 206, 284-291. (IF: 3.599) Q1-Journal

9. Hemavathi, B.; Jayadev, V.; Pradhan, S. C.; Gokul, G.; Jagadish, K.; Chandrashekar, G. K.; Ramamurthy, P. C.; Pai, R. K.; Narayanan Unni, K. N.; **Ahipa, T. N.**; Soman, S.; Geetha Balakrishna, R., Aggregation induced light harvesting of molecularly engineered D-A- π -A carbazole dyes for dye-sensitized solar cells. *Solar Energy* **2018**, 174, 1085-1096. (IF: 5.742) Q2-Journal

10. Hemavathi, B.; Kesavan, A. V.; Chandrashekar, G. K.; Ramamurthy, P. C.; Pai, R. K.; **Ahipa, T. N.**; Geetha Balakrishna, R., Polycondensation of thiophene-flanked cyanopyridine and carbazole via direct arylation polymerization for solar cell application. *Reactive and Functional Polymers* **2018**, 133, 1-8. (IF: 3.975) Q2-Journal

11. Swathi, M. G.; **Ahipa, T. N.**, Aggregation induced emission properties of new cyanopyridone derivatives. *Journal of Molecular Liquids* **2018**, 265,

747-755. (IF: 6.165) Q2-Journal

12. Hemavathi, B.; Trupthi Devaiah, C.; Swathi, M. G.; **Ahipa, T. N.**, Influence of terminal alkoxy chain lengths on the solvatochromic and AIE properties of 4,6-bis(4-(3,4-bis(alkoxy)styryl)phenyl)-2-methoxynicotinonitriles. *Dyes and Pigments* **2018**, *159*, 1-7. (IF: 4.889) Q1-Journal

13. Trupthi Devaiah, C.; Hemavathi, B.; Ros, M. B.; Barberá, J.; Tejedor, R. M.; Sadasivuni, K. K.; **Ahipa, T. N.**, Blue luminescent cyanopyridone based molecular architectures: A structure-property study. *Journal of Molecular Liquids* **2018**, *255*, 233-243. (IF: 6.165) Q2-Journal

14. Hemavathi, B.; Geetha, B. R.; **Ahipa, T. N.**, Alcohol soluble cyanopyridine based conjugated donor-acceptor polymers: Synthesis, photophysical and their charge transport behavior. *European Polymer Journal* **2017**, *95*, 1-10. (IF: 4.598) Q1-Journal

15. Ulla, H.; Kiran, M. R.; Garudachari, B.; **Ahipa, T. N.**; Tarafder, K.; Adhikari, A. V.; Umesh, G.; Satyanarayan, M. N., Blue emitting 1,8-naphthalimides with electron transport properties for organic light emitting diode applications. *Journal of Molecular Structure* **2017**, *1143*, 344-354. (IF: 3.196) Q3-Journal

16. Trupthi Devaiah C.; Hemavathi B.; **Ahipa T.N.**, New blue emissive conjugated small molecules with low lying HOMO energy levels for optoelectronic applications. *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy* **2017**, *175*, 222-228. (IF: 4.098) Q1-Journal

17. Hemavathi, B.; **Ahipa, T. N.**; Pillai, S.; Pai, R. K., Synthesis of Cyanopyridine Based Conjugated Polymer. *Data in Brief* **2016**, *7*, 1314-1320.

18. Pai, R. K.; Pillai, S.; **Ahipa, T. N.**, Microscopic analysis of polymer honeycomb thin film studied by PeakForce TUNA for organic solar cell application. *Journal of Renewable and Sustainable Energy* 2016, 8 (2), 023703. (IF: 2.219). **Q4-Journal**
19. Pai, R. K.; Hemavathi, B.; **Ahipa, T. N.**; Anoop, K. M., Solvent-induced surface morphology of polymer honeycomb thin films for power generating solar windows. *Environmental Progress & Sustainable Energy* 2016, 35 (4), 1207-1214. (IF: 2.431). **Q3-Journal**
20. Hemavathi, B.; **Ahipa, T. N.**; Pillai, S.; Pai, R. K., Cyanopyridine based conjugated polymer-synthesis and characterization. *Polymer* 2015, 78, 22-30. (IF: 4.430). **Q1-Journal**
21. **Ahipa, T. N.**; K. M, A.; Krishna Pai, R., Hexagonal columnar liquid crystals as a processing additive to a P3HT:PCBM photoactive layer. *New Journal of Chemistry* 2015, 39 (11), 8439-8445. (IF: 3.591) **Q2-Journal**
22. **Ahipa, T. N.**, Synthesis, Characterization, and Mesomorphic Properties of New Pyridine Derivatives. *ChemistryOpen* 2015, 4 (6), 786-791. (IF: 2.911) **Q3-Journal**
23. **Ahipa, T. N.**; Adhikari, A. V., 2-Methoxypyridine derivatives: synthesis, liquid crystalline and photo-physical properties. *New Journal of Chemistry* 2014, 38 (10), 5018- 5029. (IF: 3.591) **Q2-Journal**
24. **Ahipa, T. N.**; Adhikari, A. V., New cyanopyridone based luminescent liquid crystalline materials: synthesis and characterization. *Photochemical & Photobiological Sciences* 2014, 13 (11), 1496-1508. **Cover Page Article.** (IF: 3.982) **Q2-Journal**
25. **Ahipa, T. N.**; Kumar, V.; Shankar Rao, D. S.; Prasad, S. K.; Adhikari, A. V., New 4-(2-(4-alkoxyphenyl)-6-methoxypyridin-4-yl)benzotriles: synthesis, liquid crystalline behavior and photo physical properties. *CrystEngComm* 2014, 16 (25), 5573- 5582. (IF: 3.545) **Q2-Journal**

26. **Ahipa, T. N.;** Kamath, P. R.; Kumar, V.; Adhikari, A. V., New luminescent 2-methoxy-6-(4-methoxy-phenyl)-4-p-tolyl-nicotinonitrile: Synthesis, crystal structure, DFT and photophysical studies. *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy* **2014**, *124*, 230-236. **(IF: 4.098) Q1-Journal**
27. **Ahipa, T. N.;** Kumar, V.; Adhikari, A. V., New columnar liquid crystal materials based on luminescent 2-methoxy-3-cyanopyridines. *Structural Chemistry* **2014**, *25* (4), 1165-1174. **(IF: 1.887) Q2-Journal**
28. **Ahipa, T. N.;** Adhikari, A. V., Trihydrazone functionalized cyanopyridine discoids: synthesis, mesogenic and optical properties. *Tetrahedron Letters* **2014**, *55* (2), 495-500. **(IF: 2.415) Q2-Journal**
29. **Ahipa, T. N.;** Adhikari, A. V., Synthesis and mesomorphism of new 2-methoxy-3-cyanopyridine mesogens, SPIE OPTO, SPIE: 2012; p 10.
30. **Ahipa, T. N.;** Kumar, V.; Adhikari, A. V., Synthesis, structural analysis and solvatochromic behaviour of 4,6-bis (4-butoxyphenyl)-2-methoxynicotinonitrile mesogen. *Liquid Crystals* 2013, *40* (1), 31-38. **(IF: 2.908) Q2-Journal**

Review Articles:

1. Devadiga, D.; Ahipa, T. N., A review on the emerging applications of 4-cyano-4'-alkylbiphenyl (nCB) liquid crystals beyond display. *Materials Science and Engineering: B* **2022**, *275*, 115522. **(IF: 4.051) Q1-Journal**
2. Gokul, V.; Devadiga, D.; Ahipa, T. N., Pyridine based mechanochromic compounds: An overview. *Dyes and Pigments* **2021**, *195*, 109692. **(IF: 4.889) Q1-Journal**
3. Devadiga, D.; Ahipa, T. N., An up-to-date review on halogen-bonded liquid crystals. *Journal of Molecular Liquids* **2021**, *333*, 115961. **(IF: 6.165) Q2-Journal**

4. Devadiga, D.; Ahipa, T. N., Heterodimeric hydrogen-bonded mesogens comprising pyridine moiety: a review. *Liquid Crystals Reviews* **2020**, 8 (1), 5-28. (IF: 6.214). **Q1-Journal**
5. Devadiga, D.; Ahipa, T. N., Recent advancements in the mesogens comprising of 1,3,5-triazine core moiety. *Liquid Crystals Reviews* **2019**, 7 (2), 107-141. (IF: 6.214). **Q1-Journal**
6. Devadiga, D.; Ahipa, T. N., Recent synthetic advances in pyridine-based thermotropic mesogens. *RSC Advances* **2019**, 9 (40), 23161-23228. (IF: 3.361). **Q2- Journal**
7. Sadasivuni, K. K.; Deshmukh, K.; Ahipa, T. N.; Muzaffar, A.; Ahamed, M. B.; Pasha, S. K. K.; Al-Maadeed, M. A.-A., Flexible, biodegradable and recyclable solar cells: a review. *Journal of Materials Science: Materials in Electronics* **2019**, 30 (2), 951- 974. (IF: 2.478) **Q2-Journal**
8. Pai, R. K.; Ahipa, T. N.; B, Hemavathi, Rational design of benzodithiophene based conjugated polymers for better solar cell performance. *RSC Advances* **2016**, 6 (28), 23760-23774. (IF: 3.361). **Q2-Journal**
9. Hemavathi, B.; Ahipa, T. N.; Pai, R. K., Polymer design for solar cell – Current trend and future scenario. *European Polymer Journal* **2015**, 72, 309-340. (IF: 4.598). **Q1-Journal**

Invited Talks:

1. Delivered an invited talk on “*New pyridine derivatives as blue fluorescent emitters*” at Alumini Connect Webinar organized by Department of Integrated MSc (HONS) Chemistry in association with IQAC, Sahyadri Science College, Shimoga, 27th July 2021.

Research papers presented in international/national conference:

1. Deepak Devadiga and **Ahipa T.N.** “Synthesis and Characterization of PMMA Films Doped by Cyanopyridone - based Blue Emissive Conjugated Small Molecule”. National Conference on Trends in Materials and Chemical Sciences- TMCS 2019 organized by Department of Chemistry, Manipal Institute of Technology Manipal Academy of Higher Education, Manipal 576 104, Karnataka, India, 4th -5th, November 2019. (Oral Presentation)
2. Swathi M.G.; Deepak Devadiga and **Ahipa T.N.** “Mechanochromic Studies of New Cyanopyridone Derivatives”. International Conference on Modern Approaches of Chemical Science and Nanomaterials – 2019 (ICMACSN-2019), Organized by Mody University of Science and Technology, Lakshmanagarh, Rajasthan, India, 26th-27th August 2019. (Poster Presentation)
3. Deepak Devadiga and **Ahipa T.N.** “Study of hydrogen bonded complexes by using IR and Raman techniques”. International Conference on Frontiers in Materials from Basic Science to Real-time Applications (F2DM) organized by Centre for Nano and Material Sciences, JAIN (Deemed-to-be University), Jain Global Campus, Kanakapura Taluk, Ramanagara District - 562 112, 13-16th March, 2019. (Poster Presentation)
4. Meenakshy K.R.; Nagaraju D.H.; and **Ahipa T.N.** “Electron barrier properties of conjugated organic semiconductors for molecular wire applications”. International Conference on Frontiers in Materials from Basic Science to Real-time Applications (F2DM) organized by Centre for Nano and Material Sciences, JAIN (Deemed-to-be University), Jain Global Campus, Kanakapura Taluk, Ramanagara District - 562 112, 13-16th March, 2019. (Poster Presentation)
5. Swathi M.G. and **Ahipa T.N.** “Aggregation induced emission properties of new cyanopyridone derivatives”. International Conference on Green Methods for Separation, Purification and Nanomaterial Synthesis 2018 (GMSP & NS 2018), organized by Centre for Nano and Material Sciences, Jain University, Jain Global Campus, Kanakapura Taluk, Ramanagara District - 562 112, 24-25 April, 2018. (Poster Presentation)
6. Hemavathi B., Trupthi Devaiah C., Swathi M.G., and **Ahipa T.N.**, “Influence of terminal alkoxy chain lengths on the solvatochromic and AIE

properties of 4,6-bis(4-(3,4-bis(alkoxy)styryl)phenyl)-2-methoxynicotinonitriles”. International Conference on Green Methods for Separation, Purification and Nanomaterial Synthesis 2018 (GMSP & NS 2018), organized by Centre for Nano and Material Sciences, Jain University, Jain Global Campus, Kanakapura Taluk, Ramanagara District - 562 112, 24-25 April, 2018. (Poster Presentation)

7. Samreen S. and **Ahipa T.N.**, “New cyanopyridone derivatives: Design, synthesis and their photophysical properties”. International Conference on Green Methods for Separation, Purification and Nanomaterial Synthesis 2018 (GMSP & NS 2018), organized by Centre for Nano and Material Sciences, Jain University, Jain Global Campus, Kanakapura Taluk, Ramanagara District - 562 112, 24-25 April, 2018. (Poster Presentation)

8. Hemavathi B., Suraj Soman, and **Ahipa T.N.**, Geetha R Balakrishna, “New 3- cyanopyridine π -extended carbazole based dye for dye sensitized solar cells”. International symposium on functional materials (ISFM-2018): Energy and Bio-medical applications, 13-15 April 2018, Hotel Shivalikview, Chandigarh, India. (Oral Presentation)

9. Manohara H.M., Trupthi Devaiah C., Hemavathi B., **Ahipa T.N.**, “Design, Synthesis and Structural Characterization of New Pyridine Based Luminescent Materials”. International Conference on Green Chemistry & Nanotechnology Opportunities & Challenges 2017, organized by Department of Chemistry, Food Science and Technology & DDU Kaushal Kendra held at ST ALOYSIUS COLLEGE (Autonomous), Mangalore, 575003, on 27th - 28th February 2017. (Oral Presentation)

10. Hemavathi B., Kusuma J., Shanmukappagouda., Trupthi Devaiah C., R. Geetha Balakrishna and **Ahipa T.N.**, “Enhancement of Photovoltaic Performance in Dye Sensitized Solar Cell by Co-sensitization of Pyridine Based Novel Dyes”. International Conference on Green Chemistry & Nanotechnology Opportunities & Challenges 2017, organized by Department of Chemistry, Food Science and Technology & DDU Kaushal Kendra held at ST ALOYSIUS COLLEGE (Autonomous), Mangalore, 575003, on 27th - 28th February 2017. (Oral Presentation)

11. Manohara H.M., Trupthi Devaiah C., Hemavathi B., **Ahipa T.N.**, “Optical and Luminescence Properties of New Cyanopyridine Derivatives”. International Conference on Electronics, Physics and Chemistry-2017 (ICEPC-2017), Jyoti Nivas College Autonomous, Bangalore, India, during 16-18 February, 2017.
12. Hemavathi B., Kusuma J, Geetha R. Balakrishna, **Ahipa T.N.**, Synthesis of New Cyanopyridine based Dye End-capped with Cyanoacetic Acid Groups for Solar Cell Application”. New Trends in Applied Chemistry (NTAC-2017), Sacred Heart College and Hotel Crowne Plaza, Thevara, Kochi, 682 013, Kerala, India, during 09-11 February 2017.
13. Hemavathi B., Geetha R. Balakrishna*, **Ahipa T.N.**, “Synthesis of Donor- Acceptor Copolymer of Carbazole and Cyanopyridine Units via Direct Arylation Polymerization for Solar Cell Applications”. 2nd International Conference on Solar Energy Photovoltaic, held at School of Electronic Engineering, Campus 12, KIIT University, Bhubaneswar, 751024, India, during 17th - 19th December 2016.
14. Trupthi Devaiah C. Hemavathi B., **Ahipa T.N.**, “New Blue Emissive Conjugated Small Molecules with Low Lying HOMO Energy Levels for Optoelectronic Applications”. International Conference of Young Researchers on Advanced Materials (IUMRS-ICYRAM-2016), held at J N Tata Auditorium, Indian Institute of Science, Bangalore-560012, during 11th - 15th December 2016.
15. Hemavathi B., Shanmukappagouda, Trupthi Devaiah C., **Ahipa T.N.**, “Synthesis of new Cyanopyridine based Small Molecules for Optoelectronic Application”. International Conference of Young Researchers on Advanced Materials (IUMRS- ICYRAM-2016), held at J N Tata Auditorium, Indian Institute of Science, Bangalore- 560012, during 11th - 15th December 2016.
16. Hemavathi B., Geetha R. Balakrishna, **Ahipa T.N.**, “Amino Functionalized Polymer as Charge Transport Layer for Solar Cell Application”. International Conference on Advanced Materials and Technology (ICMAT-16), Organized by Sri Jayachamarajendra College of Engineering, Mysuru during 26th - 28th May 2016.
17. Hemavathi B., **Ahipa T.N.**, Anoop K.M. and Ranjith Krishna Pai. “Effect of Solvent and Morphology on PPV based Polymer Solar Cells.”

International Conference on Energy Harvesting Storage and Conversion (IC-EEE 2015), Department of Physics, Cochin University of Science and Technology, Cochin, India, February 4-7, 2015.

18. **Ahipa T.N.**, Anoop K.M. and Ranjith Krishna Pai. "Hexagonal Columnar Liquid Crystals as a Processing Additives for P3HT:PCBM Photoactive Layer." International Conference on Energy Harvesting Storage and Conversion (IC-EEE 2015), Department of Physics, Cochin University of Science and Technology, Cochin, India, February 4-7, 2015.

19. Anoop K.M., **Ahipa T.N.** and Ranjith Krishna Pai. "Effect of TOPO Capped CdTe Quantum Dots on P3HT:PCBM Layer Based Solar Cells". International Conference on Energy Harvesting Storage and Conversion (IC-EEE 2015), Department of Physics, Cochin University of Science and Technology, Cochin, India, February 4-7, 2015.

20. Hemavathi B., Ranjith Krishna Pai, **Ahipa T.N.**, Anoop K.M. "Role of solvent and surface morphological studies on honeycomb structured Poly{2,5-Bis[3-(N, N-Diethylamino)-1-Oxapropyl]-1,4-Phenylenevinylene}." 7th BANGALORE INDIANANO, Research-Industry-Academia, The Lalit Ashok, Bengaluru, December 5-6, 2014.

21. Anoop K.M., **Ahipa T.N.**, Chandan H.R., Geetha Balakrishna and Ranjith Krishna Pai. "Influence of CdTe Quantum dots on the morphology of P3HT:PCBM bulk- heterojunction solar cells." 7th BANGALORE INDIANANO, Research-Industry- Academia, The Lalit Ashok, Bengaluru, December 5-6, 2014.

22. **Ahipa. T.N.**, Vijith Kumar, Doddamane S. Shankar Rao, Subbarao Krishna Prasad and Airody Vasudeva Adhikari. "Synthesis, characterization and liquid crystalline behavior of new methoxy pyridines carrying terminal alkoxy pendent and polar nitrile group." International Conference on Recent Advances in Material Science and Technology - 2013 (ICRAMST – 13), National Institute of Technology Karnataka, Surathkal, January 17th - 19th, 2013.

23. **Ahipa T.N.**, Airody Vasudeva Adhikari, "Synthesis and mesomorphism of new 2- methoxy-3-cyanopyridine mesogens." Emerging Liquid Crystal Technologies VII (SPIE OPTO), San Francisco, California, United States, January 21-26, 2012.

24. **Ahipa T.N.**, Airody Vasudeva Adhikari, “Synthesis, characterization and mesomorphic properties of 2-methoxy-3-cyanopyridine core.” International Conference on Synthetic and Structural Chemistry (ICSSC-2011), Mangalore University Mangalore, December 8-10, 2011.

National Seminar/Workshops/ Symposium attended:

1. Participated in the National Conference on Changing Trends in Polymer Science and Technology (CTPST-2021) held at National Institute of Technology Calicut, India during 20-21 January 2021.

2. Participated in International Conference on Modern Approaches of Chemical Science and Nanomaterials – 2019 (ICMACSN-2019), Organized by Mody University of Science and Technology, Lakshmanagarh, Rajasthan, India, 26th-27th August 2019.

3. Participated and acted as session chair in KSTA sponsored National seminar on “Frontiers in Materials and Chemical Sciences” held at CNMS, JAIN (Deemed-to-be University), Bengaluru, India during 30th and 31st August 2018.

4. Participated in **8th BANGALORE INDIA NANO**, Research-Industry-Academia, on March 3-4, 2016 at The Lalit Ashok, Bengaluru.

5. Participated in “**FICCI Technology Expo and Innovator - Investor Meet**” on 15th October 2015 at Hotel ITC Gardenia in Bangalore.

6. Participated in the workshop on ***Atomic Force Microscopy and New Possibilities*** on 24th April, 2015 at CeNSc , IISc Bangalore.

7. Participated in **7th BANGALORE INDIA NANO**, Research-Industry-Academia, on December 5-6, 2014 at The Lalit Ashok, Bengaluru.

8. Participated in the **Advanced Workshop on *Scanning Probe Microscopy*** on 4th July, 2014 at CeNSE, IISc, Bangalore.

9. Participated in the **Australia-India Future Materials and Technology Symposium 2014** on 14th October, 2014 at Vivanta by Taj, M G Road, Bangalore.

International/ National Webinars Attended:

- 1) Attended the Webinar on “*RSC-IISER Desktop Seminar with OBC*” organized by RSC publishing webinars held on 25th September 2021.
- 2) Participated in a National webinar on “*Nanomaterials for energy devices- environmental remediation and biomedical applications*” organized by Department of Chemistry, Bapuji Institute of Engineering and Technology, Davangere on 21st August 2021.
- 3) Attended the Webinar on “*RSC-IISER Desktop Seminar with ChemComm*” organized by RSC publishing webinars held on 6th August 2021.
- 4) Participated in the live webinar lecture series on APA Sustainability Forum “*Circularity and Sustainability of Plastic*” organized by Asian Polymer Association held on 1st May, 2021.
- 5) Attended the Webinar on “*What does trustworthy peer review look like?*” organized by Royal Society of Chemistry held on 23rd September 2020.
- 6) Actively Participated in the International Webinar of “*Applications of Mass Spectroscopy in Chemistry and Beyond*”, organized by Department of Chemistry, BMS Institute of Technology & Management, Bengaluru, India held on 19th September, 2020.
- 7) Attended the Lectures in the 2nd National Seminar on *Frontiers in Materials and Chemical Sciences* (NSFMC 2020), organized by Centre for Nano and Material Sciences, JAIN (Deemed-to-be University), Bengaluru, India held on 31st August to 4th September 2020.
- 8) Attended the Webinar on *N-containing Conjugated Microporous Polymers for Energy Applications* held on 12th of August 2020 organized by Department of Chemistry, School of Engineering, Presidency University, Bengaluru.
- 9) Participated in the webinar “*Post COVID-19: Science and Technology*” organized by SRM University-AP, in association with India’s

national newspaper, “THE-HINDU” held on 29th May 2020.

Details of Session Chaired at National & International Conferences:

- Session Chaired for the theme: “*Nanomaterials: Basics, synthesis, Properties & Applications*” at International Conference on Frontiers in Materials from Basic Science to Real-time Applications (F2DM) organized by Centre for Nano and Material Sciences, JAIN (Deemed-to-be University), Jain Global Campus, Kanakapura Taluk, Ramanagara District - 562 112, 13-16th March, 2019.
- Session Co-chaired at National Seminar on Frontier in Materials and Chemical Sciences organized by Centre for Nano and Material Sciences (CNMS), Jain University, Jain Global Campus, Kanakapura Taluk, Ramanagara District - 562 112, 30-31st August, 2018.

Details of Faculty Development Programs Attended

- Participated in 02 Days FDP Program on “Power System Design Simulation and Analysis using DIgSILENT PowerFactory Software” of DIgSILENT GmbH, Germany in association with M/s DELLSOFT Technologies Pvt. Ltd. New Delhi, (July, 27 - 28, 2021).

Panel Member:

- As panel member for Chemistry Discipline during the RESEARCH RETREAT program organized by JAIN (Deemed-to-be University), Bengaluru, India on 19th and 20th December, 2020.
- As panel member for Chemistry Discipline during Annual University RESEARCH RETREAT program organized by JAIN (Deemed-to-be University), Bengaluru, India on 23rd and 24th November 2019.

Details of Department/ University Responsibilities Undertaken.

- **Management Information System (MIS) Report Incharge:** Collecting, Verifying and forwarding MIS reports and other related supporting files of the faculties to the concerned department.
- **Department Web Update Incharge:** Collecting, Verifying and forwarding Web Update files and other related supporting files of the faculties to the concerned department.
- **Alcohol Handling Incharge:** Collecting request letters from the faculties and the issuing of alcohol for their research activities.
- **PhD Scholar Synopsis Presentation Incharge:** Planning and Scheduling of the PhD Scholar synopsis presentation.

Details of PhD supervised/ working:

Sl. No.	Name of Student	Name of the Guide/ Co-Guide	Date of Joining	Date of Viva Voce	Year completed/ working	Title of the project thesis
1.	Ms. Samrudhi B.M. (Sep 2021-)	Dr. Ahipa T.N.	01-09-2021		Working	Design and Synthesis of New Carbazole based HTMs for Perovskite Solar Cells.
2.	Ms. Krishnapriya R (Jan 2021-)	Dr. Ahipa T.N.	01-02-2021		Working	Design and Synthesis of New Organic Hole Transporting Materials for

						Perovskite Solar Cells
3.	Mr. Deepak (Jan 2019-)	Dr. Ahipa T.N.	01-03-2019		Working	Phase transition studies of some pyridine/triazine based discotic liquid crystals
4.	Mrs. Hemavathi B (Jan 2016-Aug 2019)	Dr. Ahipa T.N. (Co-Guide)	1-12-2015	09-08-2019	Completed	Synthesis of conjugated small molecules and polymers for photovoltaic applications

Details of Project Assistants supervised/ working:

Sl. No.	Name of Student	Duration		Title of the project
		From	To	
1.	Ms. Rachel Chetri	21/03/2022	Working	Synthesis of new organic hole transporting molecules
2.	Mr. Deepak	17/09/2018	31/12/2018	Synthesis of Some Liquid Crystal Molecules
3.	Ms. Swathi M G	06/08/2017	10/08/2018	Mechanochromic Studies of New Cyanopyridone Based Fluorescent Conjugated Molecules
4.	Ms. Trupthi Devaiah C.	1/08/2016	13/07/2017	Blue Luminescent Cyanopyridone Based Molecular Architectures: A Structure-Property Study

M.Sc projects supervised/working:

Sl. No.	Name of Student	Name of the Guide	Year completed /working	Title of the project thesis
1.	Mr. Srikanth G	Dr. Ahipa T.N.	working	Design and synthesis of neworganic blue emitters for OLED applications.
2.	Ms. Rima Yadav	Dr. Ahipa T.N.	working	Novel Conducting Polymersfor Supercapacitor Applications
3.	Mr. Gokul V	Dr. Ahipa T.N.	2021	Design and Synthesis of New Mechanochromic Compounds
4.	Ms. Krishnapriya R (Jyoti Nivas College, Bangalore), MSc-Intern	Dr. Ahipa T.N.	2020	Synthesis and Characterization of A Novel Carbazole Based Hole Transporting Material For Perovskite Solar Cell
5.	Ms. Meenakshy K R	Dr. Ahipa T.N.	2019	Electron Barrier Properties of Conjugated Organic Semiconductors for Molecular Wire Applications
6.	Ms. Samreen S.	Dr. Ahipa T.N.	2018	Synthesis, Aggregation Induced Emission and Mechanochromic

				Fluorescence of New Cyanopyridone Derivatives
7.	Ms. Anitha N.	Dr. Ahipa T.N.	2018	New Cyanopyridone Derivatives: Design, Synthesis, and their Photophysical Properties
8.	Mr. Manohara H.M.	Dr. Ahipa T.N.	2017	Synthesis, Characterization, Photoluminescence and Electrochemical Properties of New Cyanopyridone Derivatives
9.	Ms. Trupthi Devaiah C.	Dr. Ahipa T.N.	2016	New cyanopyridone derivatives: synthesis, characterization and their application in DSSC
10.	Mr. Shanmukappaguda	Dr. Ahipa T.N.	2016	Synthesis and Characterization of New Donor-Acceptor Materials for Solar Cell Application

Students Achievements

- Best Oral Presentation award to Mr. Manohara H.M., postgraduate student for the paper on “Design, Synthesis and Structural Characterization of New Pyridine Based Luminescent Materials”. International Conference on Green Chemistry & Nanotechnology Opportunities & Challenges 2017, organized by Department of Chemistry, Food Science and Technology &

DDU Kaushal Kendra held at ST ALOYSIUS COLLEGE (Autonomous), Mangalore, 575003, on 27th - 28th February 2017.

- Best Oral Presentation award to Mrs. Hemavathi B., research student for the paper on “Amino Functionalized Polymer as Charge Transport Layer for Solar Cell Application”. International Conference on Advanced Materials and Technology (ICMAT-16), Organized by Sri Jayachamarajendra College of Engineering, Mysuru during 26th - 28th May 2016.

Awards/ Recognitions

- 2018-2019: Elsevier Reviewer Recognition Certificate issued from Dyes and Pigments
- 2017: Elsevier Reviewer Recognition Certificate issued from Journal of Molecular Liquids
- 2015: Start Up Research Grant - Young Scientists Awarded by SERB, New Delhi, India. (Ref. No.: YSS/2014/000835)
- 2014-2015: Senior Research Associate Fellowship Awarded by Centre for Nano and Material Sciences, Jain University, Bangalore, Karnataka, India.
- 2010-2014: Ph.D. Research Fellowship Awarded by National Institute of Technology Karnataka, Surathkal (NITK), Mangalore, Karnataka, India. (Ref. No.: Ph.D/Fellowship/2010-11/E1)
- 2009-2010: Junior Research Fellowship Awarded by Indian Plywood Industries Research and Training Institute (GOI), Bangalore, Karnataka, India. (Ref. No.: ES/119E/2639)
