

Name : Dr. Avinash I.
Designation : Assistant Professor
Department : Chemistry
Date of Joining : 03.01.2022
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EDUCATIONAL QUALIFICATIONS

Degree	Subject	College/University	Year
Ph.D	Chemistry	Indian Institute of Technology Kanpur	2020
M.Sc	Chemistry	The American College, Madurai	2010
B.Sc	Chemistry	St. Joseph's College, Trichy	2008

EXPERIENCE (TEACHING & RESEARCH)

Institution	Position	Period	Nature of work
Indian Institute of Technology Kanpur	Tutor	December 2011 – April 2012	Teaching

Specialisation in Teaching: Organic Chemistry, Inorganic Chemistry and Organometallic Chemistry

RESEARCH INTEREST:

- Organometallic Chemistry
- Chemical Education
- Main group chemistry
- Catalysis and Luminescence properties

PROJECTS WORKED ON

- DST-SERB Project** (CHM/SERB/ 2014143, PI: Dr. G. Anantharaman, IIT Kanpur) :
Project Title : N-Heterocyclic carbene (NHC) stabilized metal alkoxides/aryloxides:
Potential precursor for the preparation of heterobimetallic oxides
Designation: Senior student research associate

ARTICLES PUBLISHED IN INTERNATIONAL JOURNALS

1. 'A straightforward synthesis of 4,5-dihalofunctionalized imidazol-2-ylidene/imidazolyl-metal complexes from trihaloimidazolium salts/imidazoles: Structure and catalytic studies'
Iruthayaraj Avinash, Vivek Gupta, Vedhagiri Karthik and Ganapathi Anantharaman, *Journal of Organometallic Chemistry*, **2017**, *851*, 104-114. (Elsevier publication)
2. 'A six-membered bimetallic imidazol-4-yl-palladacycle: Synthesis, structure and catalytic activity'
Iruthayaraj Avinash, Sabeeha Parveen and Ganapathi Anantharaman, *Journal of Indian Chemical Society*, **95**, **2018**, 713-719.
(Invited article for the special issue on organometallics and catalysis by Indian Chemical society publication)
3. 'Nickel(II)- and Palladium(II)-NHC Complexes from Hydroxypyridine Functionalized C,O Chelate Type Ligands: Synthesis, Structure, and Catalytic Activity toward Kumada–Tamao–Corriu Reaction'
Irshad Ahmad Bhat, **Iruthayaraj Avinash** and Ganapathi Anantharaman, *Organometallics*, **2019**, *38*, 1699-1708. (American Chemical Society publication)
4. 'Hydrolysis of NHC stabilized zinc diaryloxide [(NHC)Zn(OAr)₂]: Impact of stoichiometric quantity of water and base'
Kandasamy Elango, **Iruthayaraj Avinash**, Sharad Kumar Sachan, Ganapathi Anantharaman, *Journal of Organometallic Chemistry*, **2019**, *893*, 78-84. (Elsevier publication)
5. 'Backbone Boron-Functionalized Imidazole/imidazolium Salts: Synthesis, Structure, Metalation studies and Fluoride Sensing properties', **Iruthayaraj Avinash**, Sabeeha Parveen and Ganapathi Anantharaman, *Inorganic Chemistry*, **2020**, *59*, 5646-5661 (American Chemical Society publication)
6. 'Efficient Synthesis of Cu(II)-N-Heterocyclic Carbene Complexes in Water and Their Activity Towards Aerobic Alcohol Oxidation', Irshad Ahmad Bhat, **Iruthayaraj Avinash**, Sharad Kumar Sachan, Sadhana Singh and Ganapathi Anantharaman *European Journal of Inorganic Chemistry*, **2021**, *44*, 4560-4565. (Wiley publication)

CONFERENCES (During Doctoral studies):

- Presented a poster in 'Modern Trends in Inorganic Chemistry' (MTIC) held in Jadavpur University, Kolkata, December 2015
- Presented a poster and received best poster award in '21st CRSI National symposium' held at CSIR-Indian Institute of Chemical Technology, Hyderabad in July, 2017
- Presented a poster in "1st International Symposium on Main-group Molecules to Materials (MMM)" held at Indian Institute of Science, Bangalore in October, 2018
- Presented a oral presentation and received young scientist award at International Seminar on Recent Advances in Chemistry & Material Sciences held in August 2020.

AWARDS/RECOGNITION:

- Awarded **S. S. Bhatnagar Young Scientist Award** by **Indian Chemical Society** for the oral presentation at International Seminar on Recent Advances in Chemistry & Material Sciences held in August 2020.
- Received **Best poster award** by ACS Omega in 21st CRSI National symposium held at CSIR-Indian Institute of Chemical Technology, Hyderabad in July, 2017
- Received **Appreciation letter from the director of IIT Kanpur for excellent teaching** in CHM 101 lab course in 2012
- Qualified **GATE-2010 with All India Rank (AIR) 197**

RESEARCH/ACADEMIC ACTIVITIES SINCE JANUARY 2022

(AFTER JOINING THE AMERICAN COLLEGE):

Seminar / Conference / Workshop / FDP Details

Name of the Seminar / Conference / Workshop / FDP	Name of the Institution conducted	Date	Organised/Participated/ Paper Presented/Acted as Resource Person
Workshop on Chemistry Laboratory Practices	Department of Chemistry, The American College, Madurai	September 2, 2023	Convener
Workshop on skill development in analytical skills	Department of Chemistry, The American College, Madurai	February 2 & 3, 2023	Resource Person
Five day summer training programme on Chromatographic Techniques and Spectrophotometer Analysis DBT Star College Scheme	Department of Chemistry, Vivekananda College, Thiruvudakam West - 625234	July 14, 2022	Resource Person
Chemistry Association Meeting	St. Joseph's College, Tiruchirappalli -620002	September 19, 2022	Resource Person
Two Day Workshop on Green Chemistry	Department of Chemistry, The American College, Madurai	January 22 & 23, 2024	Participation
Recent Trends in Chemistry	Department of Chemistry, The American College, Madurai	March 3, 2023	Participation
Art and science of methodical scientific writing and publishing in high impact journal	IQAC, The American College	March 6, 2023	Participation
Faculty Orientation Programme	IQAC, The American College	September 20, 2022	Participation

PUBLICATION OF BOOKS/BOOK CHAPTERS:

Title of the Paper / Book Chapter / Book	Name of the Journal / Publisher (with month, year)	UGC care list / Web of Science / SCOPUS / PubMed	DOI Link	ISSN/ISBN
International Conference on Advances in Chemistry Proceedings (Editorial Board member)	PG & Research Department of Chemistry, The American College, December 04, 2023	-	-	978-93-80368-45-0