

FULL NAME: PREETHANUJ PREETHALAYAM**Researcher (Synthetic organic chemistry with adequate computational chemistry knowledge) and Teacher****Address:** Preethalayam, Pallikkovval, Karivellur(PO), Kannur, Kerala**ORCID ID:** 0000-0002-5170-8493,**Researcher ID:** G-5205-2016**Date of Birth:** 20-09-1985**Sex/status:** Male/Married**E-mail:** preethanuj106@gmail.com**Ph. No:** 9809045770**ACADEMIC CHRONICLE**

Qualification	Year	School/College	University	Marks (%)
PDF	2021-Present	Uppsala University	Uppsala University	Full time
Ph.D.	2018	CSIR-NIIST	Kerala University	Full time
M. Sc CHEMISTRY	2006-2008	Government College Kasaragod	Kannur University	71%
B. Sc CHEMISTRY	2003-2006	Government College Kasaragod	Kannur University	87.5%

PhD

Name of University	Kerala University (Work carried out from CSIR-NIIST)
Title of thesis	Transition Metal Catalyzed Transformations of Pentafulvenes and Its Derivatives: Facile Strategies Toward Carbocycles and Heterocycles

PROFESSIONAL EXPERIENCE:**A). Current (or most recent) role**

Job Title	Post-Doctoral Fellow
Dates from/to	From September 2021 to Present (up to August 31, 2023)
Employer's Name	Uppsala university
Employer's Address	Department of Chemistry – Ångström, Ångström Laboratory, Polacksbacken Lägerhyddsvägen 1, Uppsala
Number of Staff Supervised	1 (Internship)
Description of Duties	Synthesis of singlet fission chromophores and Triplet sensitizers for dimerization of isoprene for jet fuel production. Computational calculations related to singlet fission and triplet sensitizers. Excited state aromaticity and antiaromaticity and their applications. Photodegradation of polystyrene. Supervision of Master and Ph.D. students

B) Previous role

Job Title	Assistant Professor on Contract
Dates from/to	November 2018 to March 2020
Employer's Name	Payyannur College
Employer's Address	Payyanur, P.O Edat - 670327 Kannur Dt., Kerala, India
Number of Staff Supervised	1 (M.Sc. student) and 10 (B. Sc. Students)
Description of Duties	Teaching and mentoring of B. Sc. And M. Sc. Students. Tutor of First year B.Sc. Students. Lab demonstration and conducting seminar section. Report correction for project students.

c) Role prior to B

Job Title	Researcher	
Dates from/to	From May 2009 to August 2017	
Employer's Name	CSIR-NIIST	
Employer's Address	CSIR – National Institute for Interdisciplinary Science and Technology (NIIST) Council of Scientific and Industrial Research (CSIR) Ministry of Science and Technology, Government of India Industrial Estate PO, Thiruvananthapuram, India	
Number of Staff Supervised	<i>directly</i>	<i>indirectly</i>
		12
Description of Duties	Development of synthetic methodology. Synthesis and transformations of fulvenes and It's derivatives. Lab training and supervision of both M.Sc. and Ph. D. students. Transition metal (Pd, Rh, Ru, Ir) catalysis of norbornadiene systems, Zirconium and Titanium metal catalysis for endo cyclic activation	

KEY SKILLS

Serial Number	Skills	
1	Knowledge acquisition	
2	Research techniques and experiment design	
3	Communication skills	Writing – papers, funding proposals
		Verbal presentations, meeting, posters
		Teaching and Demonstration
4	Leadership/management	Mentoring UG/PG/PHD students
		Establish priorities/goals
		Managing people and time
		Strategy development

PUBLISHED MATERIAL

Number of:15

Papers (International Peer Reviewed Journals)

15 + 1(under revision in Chem. Eur. J.)

PUBLICATIONS

1. "Azaboracyclooctatetraenes reveal that the different aspects of triplet state Baird-aromaticity are nothing but different" **Preethanuj Preethalayam**, Nathalie Proos Vedin, Slavko Radenković, Henrik Ottosson, *J. Phys. Org. Chem.* **2022** <https://doi.org/10.1002/poc.4455>. IF: 2.155
2. "Diazanorbornene: A Valuable Synthon towards Carbocycles and Heterocycles" **Preethanuj Preethalayam**, Jijy E., Praveen Prakash, Sarath Chand S, Ajesh Vijayan, Kokkuvayil Vasu Radhakrishnan, Jubi John, *Eur. J. Org. Chem.* **2020**, 6588. IF: 3.261
3. "Calix[4]arene Based Redox Sensitive Molecular Probe for SERS Guided Recognition of Labile Iron Pool in Tumor Cells" P. Sreedevi.; J. B. Nair; **P. Preethanuj**; B. S. Jeeja; C. H. Suresh; K. K. Maiti; R. L. Varma *Anal. Chem.* **2018**, 90, 7148. IF: 8.008
4. "Generation of ϵ,ϵ -difluorinated metal-pentadienyl species through lanthanide-mediated C-F activation". T. Kumar; F. Massicot; D. Harakat; S. Chevreux; A. Martinez; **P. Preethanuj**; K. V. Radhakrishnan; J.-B. Behr; J.-L. Vasse; F. Jaroschik. *Chem. Eur. J.* **2017**, 23, 16460. IF: 5.02
5. "Lewis acid promoted Regioselective Double Hydro(hetero) arylation of 6,6'-dialkyl Substituted Pentafulvene: A Facile Approach to Bisindole Derivatives". P. Sasikumar; B. Prabha; S. S. Chand; M. Aswathy; **P. Preethanuj**; E. Suresh; F. Jaroschik.; K. V. Radhakrishnan. *Eur. J. Org. Chem.* **2017**, 4469. IF: 3.261
6. "Recent Advances in the Chemistry of Pentafulvenes" **P. Preethanuj**, S. Krishnan; S. Thulasi; S. Chand; V. Nair.; F. Jaroschik; J. Joseph.; K. V. Radhakrishnan, *Chem. Rev.* **2017**, 117, 3930. IF: 72.087
7. "Sequential Tandem Transformations of Functionalized Diazanorbornenes: Facile Strategy towards Pentacyclic Framework with Multiple Stereocenters" **P. Preethanuj**., V. Jijitha., Ajesh Vijayan., Jubi John., K. V. Radhakrishnan, *Synthesis.* **2017**, 49 (8), 1816. IF: 3.019
8. "Lewis Acid Catalyzed Regioselective Hydroheteroarylation of Pentafulvenes" S. S. Chand.; G. Gopalan; P. V. Santhini; **P. Preethanuj**; J. John.; D. Harakat.; F. Jaroschik; K. V. Radhakrishnan. *Org. Lett.*, **2016**, 18, 964. IF: 6.072
9. "Titanium and Zirconium Hydride-Catalyzed Regioselective Isomerization of 1,4-Dihydrofulvenes: Access to 1-Substituted 1,2-Dihydrofulvenes" J. Joseph.; **P. Preethanuj**; K. V. Radhakrishnan; F. Jaroschik; J.-L. Vasse, *Org. Lett.* **2015**, 17, 6202. IF: 6.072
10. "Lewis Acid Catalyzed C-3 Alkylidenecyclopentenylolation of Indoles: An Easy Access to Functionalized Indoles and Bisindoles" S. Sarath Chand.; B. S. Sasidhar.; Praveen Prakash.; P. Sasikumar.; **P. Preethanuj**; F. Jaroschik.; D. Harakat.; J.-L. Vasse.; K. V. Radhakrishnan. *RSC Adv.*, **2015**, 5, 38075. IF: 4.036
11. "Bis-Functionalization of 1,3-Dienes through 1,4-Conjugate Addition of Amphiphilic Bis- π -Allyl and Related Palladium Intermediates. Bis-Functionalization of 1,3-Dienes T. V. Baiju.; Ajesh Vijayan.; Nayana Joseph.; **P. Preethanuj**.; K. V. Radhakrishnan.; E. Suresh.; Y. Yamamoto. *Synlett* **2014**, 25, 359. IF: 2.206
12. "Trapping the Lewis Acid Generated Transient Species from Pentafulvene Derived Diazanorbornenes with *ortho*-Functionalized Aryl Iodides and Aliphatic Alcohols" S. Sarath Chand.; S. Saranya.; **P. Preethanuj**.; B. P. Dhanya.; E. Jijy.; Praveen Prakash.; B. S. Sasidhar.; Jan Szymoniak.; P. V. Santhini.; K. V. Radhakrishnan. *Org. Biomol. Chem.* **2014**, 12, 3045. IF: 3.2
13. "Palladium-Catalyzed Skeletal Rearrangement of Spirotricyclic Olefins: A Facile One-Pot Strategy for the Synthesis of a Novel Motif with Cyclopentene Fused to Benzofuran and Pyrazolidine" P. Prakash.; E. Jijy.; **P. Preethanuj**; P. M. Pihko.; S. S. Chand.; K. V. Radhakrishnan. *Chem. Eur. J.* **2013**, 19, 10473. IF: 5.02
14. "Palladium/Lewis Acid Mediated Domino Reaction of Pentafulvene Derived Diazabicyclic Olefins: Efficient Access to Spiropentacyclic Motif with an Indoline and Pyrazolidine Fused to Cyclopentene"

S. S. Chand.; E. Jijy.; P. Prakash.; J. Szymoniak.; **P. Preethanuj**; B. P. Dhanya; K. V. Radhakrishnan. *Org. Lett.*, **2013**, 15, 3338. IF: 6.072

15. "Rhodium (III)-catalyzed ring-opening of strained olefins through C–H activation of O-acetyl ketoximes: an efficient synthesis of trans-functionalized cyclopentenones and spiro[2.4]heptenes" E. Jijy.; P. Prakash; M. Shimi.; S. Saranya; **P. Preethanuj**; P. M. Pihko.; S. Varughese.; K. V. Radhakrishnan. *Tett. Lett.* **2013**, 54, 7127. IF: 2.032

MEMBERSHIPS AND POSITIONS OF TRUST IN SCIENTIFIC SOCIETIES

Serial Number	Name of the Society	Membership type	Membership Number
1	American Chemical Society	Member	30622702
2	Royal Society of Chemistry	Associate Member	680820
3	Indian Chemical Society	Life time member	8259(LM)
4	World Society of Sustainable Energy Technologies	Member	2752

AWARDS AND DISTINCTIONS

Serial Number	Awards and Distinctions
1	Junior Research Fellow (CSIR-UGC JRF) (2011)
2	Senior Research Fellowship (CSIR-UGC SRF) (2013)
3	National Eligibility Test (NET) for College Lecturer
4	Wenner-Gren International Post-Doctoral Fellowship (2021)

BIBLIOGRAPHICAL SYNOPSES (GOOGLE SCHOLAR)

Total citation	270
Number of publications	15
Papers Presented at Conferences	5
Number of MOOC completed	10
Number of FDP	4
h-index	8
Total Impact Factor/ Average impact factor per paper	131.515/ 8.77

REFERENCES

1. Dr. K. V. Radhakrishnan

Scientist, Organic Chemistry Section
CSIR-NIIST, Trivandrum-695019, Kerala, India
+91-9446555258
e-mail: radhu2005@gmail.com

2. Prof. Henrik Ottosson

Associate Professor and Senior Lecturer
Department of Chemistry - Ångström Laboratory
Uppsala University, Box 523, 751 20 Uppsala, Sweden
Tel: **+46-(0)18-4717476**, Mobile: **+46-(0)704-776333**
e-mail: henrik.ottosson@kemi.uu.se