

Dr. T. SREEJA

Assistant Professor of Chemistry (Research Guide)

International Publications – 13

Conferences (International – 21) (National – 12)

<u>Citation indices</u>	<u>All</u>	<u>Since 2017</u>
Citations	376	131
h-index	08	05
i10-index	08	05



ADMINISTRATIVE DISTINCTION

- National Service Scheme (NSS) Programme Officer (2011-2014)
- Convenor, Science Club (2011-2015)
- FLAIR Intern (2014 onwards)
- Nodal coordinator, VALUE Virtual Lab (2014 onwards)
- Member, IQAC, Women Empowerment Cell, Calendar Committee, Sree Narayana Study Centre
- Deputy Chairman, Board of Examiners for the Sixth Semester B.Sc Chemistry and Industrial Chemistry Degree Examinations
- Coordinator, IQAC (2015-2017)
- Convenor, Admission Committee for the academic year 2017-18
- Co-convenor, Admission Committee for the academic year 2018-19
- Coordinator, NAAC (2020 onwards)
- Member, Malpractice Prevention Squads to take stringent measures against Malpractices during University examinations in Alappuzha-Pathanamthitta Districts in the University of Kerala from 16.11.2016 to 24.01.2017
- Chairman, Board of Examiners for the First, Third and Fifth Semester B.Sc Chemistry and Industrial Chemistry Degree Examinations 2017-2018
- Chairman, Board of Examiners for the Sixth Semester B.Sc Chemistry and Industrial Chemistry Degree Examinations 2017-18
- Chairman, Board of Examiners for the Sixth Semester B.Sc Chemistry and Industrial Chemistry Degree Examinations 2020-21
- **Member, Academic Committee (UG Chemistry) of Sree Narayana Guru Open University**

MEMBERSHIP IN PROFESSIONAL BODIES

- ACT (Academy of Chemistry teachers) State level professional body
- Nuclear Magnetic Resonance Society of India
- Alappuzha Natural Historical Society



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QUALIFICATION

M.Sc., Ph.D.

DATE OF JOINING

03.01.2011

EXPERIENCE IN YEARS

11 years

AREA OF RESEARCH

Calixarene & thiacalixarene
Multicomponent reactions,
Cycloaddition,
Catalysis,
Molecular Docking
Computer Aided Drug Design

AWARDS & ACHIEVEMENTS

- Received the best paper presentation award for presenting a paper entitled “Upper rim alkoxy-substitution of calix[4]arene via a bis(spiro dienone) route” at the KSCSTE Sponsored National Seminar on RECENT ADVANCES IN SUPRAMOLECULAR AND NANOCHEMISTRY organized by the department of chemistry, Assumption College, Changanacherry on 16th and 17th November-2017.
- Awarded the best performing nodal coordinator of VALUE VIRTUAL LABS Amrita University, Kollam on 12th May, 2017 Annual Nodal Center Conference.
- Awarded FLAIR (Fostering Linkages in Academic Innovation and Research) internship by Higher Education Council by Government of Kerala in November 2014.
- Awarded the first prize in oral presentation at National Seminar on Recent Trends in Organic Chemistry (RETROC-2009) (student lecture) National symposium in chemistry held at Mahatma Gandhi University, January, 2009.
- Senior Research Fellowship (SRF), Council of Scientific and Industrial Research (CSIR), India (September 2007 – 2010)
- Awarded the prestigious CSIR, Junior Research Fellowship (JRF) of the Council of Scientific and Industrial Research, Government of India in September 2005-August 2007.

INVITED LECTURES (as Resource Person)

- Delivered a talk on “Green Chemistry” on the occasion of Chemistry Association Inauguration at St. Joseph’s College for Women, Alappuzha on 07-02-2014
- Delivered a talk on “Recent Trends in Chemistry” in the National Seminar on “Reaching the Unreached Through Science and Technology (RURTST-2018)” at S. N. College, Kollam on 14th February 2018.
- Delivered a lecture in the Workshop on ‘Outcome Based Education & Information and Communications Technology’ organized by the Department of Chemistry and IQAC, St. Michael’s College, Cherthala, supported by Kerala State Higher Education Council, Thriuvananthapuram on 10th March, 2020.
- Subject Expert for the Selection of Assistant Professor (on contract) of Chemistry at SN College, Cherthala in 2020 & 2021.

PUBLICATIONS

- “Recent Advances in the Chemistry of Pentafulvenes” Preethanuj Preethalayam, K. Syam Krishnan, Sreeja Thulasi, S. Sarath Chand, Jomy Joseph, Vijay Nair, Florian Jaroschik, and K. V. Radhakrishnan Chem. Rev., 2017, 117 (5), pp 3930–3989. DOI: 10.1021/acs.chemrev.6b00210, Publication Date (Web): February 2, 2017.
- Narrow-Rim Functionalization of Calix[4]arene through Ugi-4CR: Synthesis of a Series of Calix[4]arene Peptoids. Anupriya Savithri, Sreeja Thulasi, and Ramavarma Luxmi Varma. The Journal of Organic Chemistry 2014, 79, 4, 1683- 1689.(doi: 10.1021/jo4025732).
- Synthesis of upper rim N-formamido and isocyanocalix[4]arenes: adaptation of Ugi4-CR on calix[4]arenes towards peptide-like architectures. Anupriya Savithri, Sreeja Thulasi, Luxmi Varma. Tetrahedron 2012, 68, 31, 6323-6328. (<http://dx.doi.org/10.1016/j.tet.2012.05.023>).
- Expeditious synthesis of N-bridged heterocycles via dipolar cycloaddition of pentafulvenes with 3-oxidopyridinium betaines. Jinesh M. Kuthanapillil, Sreeja Thulasi, Rani Rajan, K. Syam Krishnan, E. Suresh, K.V. Radhakrishnan. Tetrahedron 2011, 67, 1272-1280. (doi:10.1016/j.tet.2010.11.084).

5. Palladium Catalyzed 1,8-Conjugate Addition to Heptafulvene via Bis- π -allyl Palladium Complexes. Sholly Clair George, Sreeja Thulasi, S. Anas, K. V. Radhakrishnan, Yoshinori Yamamoto. *Organic Letters* 2011, 13, 4984–4987. (10.1021/ol202137m).
6. Transition metal catalyzed carboannulation of diazabicyclic alkenes with ambiphilic bifunctional reagents: a facile route towards functionalized indanones and indanols. Nayana Joseph, Jubi John, Rani Rajan, Sreeja Thulasi, Anupa Mohan, E. Suresh, K.V. Radhakrishnan. *Tetrahedron* 67, 2011, 4905-4913. <https://doi.org/10.1016/j.tet.2011.04.087>
7. Calix[4]bis(spirodienone) as a versatile synthon for upper rim alkoxylation of calixarenes and synthesis of novel triazole-based biscalixarene by 'CuAAC' chemistry. Thulasi, S., Savithri, A., Varma, R. L. *Supramolecular Chemistry* 2011, 23, 7, 501-508.(DOI:10.1080/10610278.2011.556252).
8. Hybrid macrocyclic receptors based on lower rim functionalised thiacalix[4]arene and amino acids: Synthesis, structure and binding properties towards metal ions. Thulasi Sreeja, Viswanathan Bhagavathy Ganga, Lakshmananpillai Praveen, Ramavarma Luxmi Varma. *Indian Journal of Chemistry* 2011, 50B, 704-714. ([http://nopr.niscair.res.in/bitstream/123456789/11688/1/IJCB%2050B\(5\)%20704-714.pdf](http://nopr.niscair.res.in/bitstream/123456789/11688/1/IJCB%2050B(5)%20704-714.pdf)).
9. Trapping the p -Allylpalladium Intermediate from Fulvene-Derived Azabicyclic Olefin with Soft Nucleophiles. Rani Rajan, Jubi John, Sreeja Thulasi, Nayana Joseph, K. V. Radhakrishnan,* R. C. Sawant. *Synthesis* 2010, No. 21, 3649–3656.
10. Direct Access to Upper Rim Substituted Mono- and Diaryloxy Calix[4]arenes via Bis(spirodienone) route. Sreeja T.; Jisha, B.; Adarsh, B.; Viji, S.; Varma, L. R. *Tetrahedron* 2010, 66, 5270-5276.
11. A Novel methodology for the wider rim alkoxy substitution of calix[4]arene through bis(spirodienone) route. T. Sreeja, V. B. Ganga, E. Jiji and R. Luxmi Varma. *Tetrahedron Lett.* 2009, 50, 770-772.
12. A New Hg²⁺ Selective Fluorescent Sensor Based on a 1,3-Alternate Thiacalixarene Anchored with Four 8-Quinolinoloxo Groups. Praveen, L.; Ganga, V. B.; Thirumalai, R.; Sreeja, T.; Reddy, M. L. P.; Varma, L. R. *Inorg. Chem.* 2007, 46, 6277-6282.
13. Studies on the Reactivity of Calix[4]arene Derived Bis(spirodienone) with Carbo- and Heterodienophiles and Dichlorocarbene: Synthesis of Highly Functionalized Macrocycles. Ganga, V. B.; Sreeja, T.; Suresh, E.; Varma, L. R. *Tetrahedron* 2007, 63, 4134-4143. <https://doi.org/10.1016/j.tet.2007.02.100>

ORIENTATION/REFRESHER/SHORT TERM COURSES ATTENDED

- Participated in UGC sponsored Refresher Course in Chemistry conducted by UGC Academic Staff College, University of Kerala, Kariavattom from 30-01-2013 to 20-02-2013 and obtained 'A' grade.
- Participated in UGC sponsored 5-day Residential SAM Workshop on Capacity building for Women in Higher Education held at CMS College, Kottayam from 16-04-2013 to 20-04-2013.
- Participated in the Orientation Program for NSS Programme Officers at Rajagiri College of Social Sciences, Kalamassery on 6-12th November, 2013.
- Attended the FLAIR (Fostering Linkages in Academic Innovation and Research) Induction training programme, 'Good Learning' from 29-09-2014 to 01-10-2014 conducted under the auspices of New Initiatives in Higher Education' by Directorate of Collegiate Education, Government of Kerala.

- Participated in the UGC sponsored Orientation Programme (IT-Oriented) conducted by UGC-Academic Staff College, University of Kerala, Kariavattom from 14-10-2014 to 10-11-2014 and obtained 'A' grade.
- Attended the FLAIR Induction Training Programme Phase II from 29-07-2015 to 30-07-2015 held at the Centre for Water Education, Vellayambalam, Thiruvananthapuram.
- Attended National Nodal Centre Conference (NNCC) conducted by VALUE Virtual Labs at Amrita Vishwa Vidyapeetham University, Amritapuri on 9th September 2015.
- Attended 2-day Training on IT Tools (Moodle) of the FLAIR Programme arranged at Maria Rani Center, Sreekariyam Thiruvanthapuram from 14-15th December, 2015.
- Attended Personality Development Training Programme of the FLAIR Programme being organized by the Loyola Extension Services, Loyola College for Social Sciences, Sreekariyam, Trivandrum from 4-6th January, 2016.
- Participated in one day workshop on Syllabus Revision of First Degree Programme in Chemistry (Core & Complementary) jointly organized by the Board of Studies in Chemistry (pass), University of Kerala and Academy of Chemistry Teachers (ACT) held at S. N. College, Kollam on 15th December, 2016.
- Attended a two day workshop entitled 'Questioning the Question' - Workshop Towards developing better assessment practices in higher education' organized by FOSTERING LINKAGES IN ACADEMIC INNOVATION AND RESEARCH (FLAIR) at Centre for Water Education, Vellayambalam, Thiruvananthapuram on 21&22 February, 2017.
- Participated in a 3-day Interactive Co-learning Workshop on "Philosophy, Methods and Ethics in Science" held during 18-20th April 2018 at S. N. College, Kollam.
- Participated in the Annual Workshop for Principals and IQAC Coordinators on "Changing Parameters of Quality Assessment in Higher Education" organized by the Council of Principals of Colleges in Kerala on 25th November 2017 at T. K. M. College of Arts & Science, Kollam.
- Completed the ARPIIT Course for Career Advancement Scheme (CAS) promotion Online Refresher Course In Chemistry For Higher Education with a "A" Grade in the proctored examination held on 16.02.2020 Sri Guru Tegh Bahadur Khalsa College, University of Delhi.
- Participated in one day workshop on Outcome Based Syllabus Revision of Organic Courses of First Degree Programme in Chemistry (Core & Complementary) organized by the Board of Studies in Chemistry (pass), University of at S. D. College, Alappuzha on 15th December, 2020.
- Participated in one day National Workshop on "MOOC, Swayam and E-Content Development" conducted by Department of Commerce and IQAC, Bishop Moore College, Mavelikara in association with Educational Multimedia Research Centre (EMMRC), Calicut on 29th February 2020.
- Attended a Three Days' Online Workshop on 'Video Content Creation for Teachers' offered by Marian College, Kuttikanam (Autonomous) from 20th March, 2020
- Completed the online course 'Let's Break the Chain of COVID-19 Infection' offered by Mohammed bin Rashid University of Medicine and Health Sciences, Dubai, as a part of MRBU Community Immunity Ambassador Program on 2nd April, 2020
- One Week Faculty Development Program organized by Guru Angad Dev Teaching Learning Centre SGTB Khalsa College, University of Delhi under the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNTT) of MHRD from 21- 26th May, 2020
- Two Weeks Faculty Development Programme on "ADVANCED CONCEPTS FOR DEVELOPING MOOCS" from July 02 - July 17, 2020 organized by Teaching Learning Centre, Ramanujan College, University of Delhi under the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNTT) of MHRD.
- Participated and successfully completed the One Week online Short term Faculty Development Programme (Interdisciplinary) on "Towards a Digital Era of Teaching and Learning" which was delivered as MOOC with four quadrants, organised by UGC-HRDC, University of Kerala, Thiruvananthapuram in collaboration with KSMD College, Sasthamcotta from August 12-18,

- National Faculty Development Programme (FDP) on Capacity Building In Drafting Proposals For Funded Research (5th to 11th October 2020) organized by the Theresian Research Consultancy Cell (TRACC), St. Theresa's College (Autonomous) in collaboration with Guru Angad Dev Teaching Learning Centre of MHRD, under the Scheme of Pandit Madan Mohan Malviya National Mission on Teachers & Teaching from 5th -11th October, 2020

Skill Development/Training Programmes During Lockdown (From April 2020)

- One week workshop on “MOODLE Site Creation” organised by IQAC, Marian College, Kuttikanam (Autonomous) on 6th-11th April, 2020
- Two weeks MOOC course (e-learning) on "Online learning and content development" organised by FLAIR Kerala from 18.04.2020 to 02.05.2020
- National Webinar on “Development of Higher Education in India: An Overview” organized by Guru Angad Dev Teaching Learning Centre SGTB Khalsa College, University of Delhi under the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT) of MHRD from 9th April, 2020 (This is equivalent to a regular National Seminar)
- National Webinar on “ICT Enabled Higher Education in India: Challenges & Opportunities” organized by Guru Angad Dev Teaching Learning Centre SGTB Khalsa College, University of Delhi under the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT) of MHRD from 13th April, 2020 (This is equivalent to a regular National Seminar)
- National Webinar on “Re-engineering Higher Education: A Seamless Learning Management System for the University” organized by Guru Angad Dev Teaching Learning Centre SGTB Khalsa College, University of Delhi under the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT) of MHRD from 22nd April, 2020 (This is equivalent to a regular National Seminar)
- National Webinar on “Role of Teachers in Technology driven Higher Education” organized by Guru Angad Dev Teaching Learning Centre SGTB Khalsa College, University of Delhi under the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT) of MHRD from 25th April, 2020 (This is equivalent to a regular National Seminar)
- National Worksop on “Development of Teacher's ekit” organized by Guru Angad Dev Teaching Learning Centre SGTB Khalsa College, University of Delhi under the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT) of MHRD from 27th April, 2020 (This is equivalent to a regular National Seminar)
- National Webinar on “Towards Excellence in Higher Education in India in the 21st Century: Challenges & Opportunities” organized by Guru Angad Dev Teaching Learning Centre SGTB Khalsa College, University of Delhi under the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT) of MHRD from 29th April, 2020 (This is equivalent to a regular National Seminar)
- National Webinar on “Challenges & Opportunities before Indian Higher Education due to Covid-19” organized by Guru Angad Dev Teaching Learning Centre SGTB Khalsa College, University of Delhi under the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT) of MHRD from 2nd May, 2020 (This is equivalent to a regular National Seminar)
- National Webinar on “Corona Pandemic & Economic Challenges in India” organized by Guru Angad Dev Teaching Learning Centre SGTB Khalsa College, University of Delhi under the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT) of MHRD from 4th May, 2020 (This is equivalent to a regular National Seminar)

- One day Workshop on “Basic Introduction to MOODLE” organised by IQAC, Marian College, Kuttikanam (Autonomous) on May 7th, 2020
- Webinar “Preparing for Online Teaching” by Dr. Muralee Thummarakudy, Operations Manager, Crisis Management Branch, United Nations Environment Programme, Organised by SH College, Thevara (Autonomous) on May 21st 2020
- National webinar on “Achieving excellence in Higher education in India in the 21st Century: Challenges & Opportunities” organised by School of Business Studies & IQAC, Sharda University on 3rd June, 2020
- One week workshop on “Online Teaching & Student Engagement” organised by IQAC, Marian College, Kuttikanam (Autonomous) from 16th – 22nd June, 2020
- Two Days Online National Workshop entitled “Online Teaching-Learning using LMS - MOODLE” organized by Guru Angad Dev Teaching Learning Centre, SGTB Khalsa College, University of Delhi under the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNTT) of MHRD on 24th-25th July 2020 (This is equivalent to a regular National Workshop)
- Participated in the Three Days National Webinar on supported by UGC under Paramarsh scheme and organized by the Internal Quality Assurance Cell (IQAC), Mar Athanasius College (Autonomous), Kothamangalam from 06 August 2020 to 08 August 2020
- Participated in a Webinar on “Awareness about NEP 2020 & NAAC Assessment & Accreditation Process” organized by the IQAC, University of Calicut & National Assessment & Accreditation Council- NAAC, Southern Region, Bengaluru on 24th August, 2020
- Faculty Development Program on ICT Tools in Teaching Chemistry conducted from 2nd September 2020 to 6th September 2020 through Online Mode and secured B grade with 77.2 percent. Organised by Teresian Teaching Learning Centre (An IQAC Initiative) & Department Of Chemistry And Centre For Research
- FDP Webinar “Mapping of Outcomes: Programme Outcomes, Course Outcomes and Learning Outcomes” organised by IQAC, St Thomas College Kozhencherry and KSHEC on 4 November 2020.
- Participated in the One-day IQAC Online Symposium: On NAAC Accreditation Process: Lessons From Recently Accredited A++ Colleges In Kerala on 24th June, 2021 organized by Loyola College of Social Sciences (LCSS), Thiruvananthapuram In Collaboration with Kerala State Higher Education Council (KSHEC), Rajagiri College of Social Sciences Kalamassery, Nirmala College, Muvattupuzha, St. Teresa’s College, Cochin and St. Thomas College, Palai.

T. K. MADHURANGA MURTHY