

Dr. V. SREEJA

Assistant Professor of Chemistry

International Publications – 06

Conferences (International – 10) (National – 12)

<u>Citation indices</u>	<u>All</u>	<u>Since 2016</u>
Citations	408	223
h-index	05	05
i10-index	05	05



ADMINISTRATIVE DISTINCTION

- Coordinator, Young Innovators Programme, Kerala Development and Strategic Council (K-DISC)
- Convenor, Reading Club, Computer awareness club
- Coordinator, Website Committee
- Member, Women Empowerment Cell, Admission Committee, DLMC etc
- Technical Coordinator, Webinar Organizing Committee
- National Service Scheme (NSS) Programme Officer (2019-2020)
- External Examiner, Board of Examiners for the fourth Semester B.Sc Chemistry and Industrial Chemistry Degree Practical Examinations 2020
- External Examiner, Board of Examiners for the Sixth Semester B.Sc Chemistry Degree Practical Examinations 2019



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AWARDS & ACHIEVEMENTS

- Awarded **Research Fellowship** in April 2007 from **CSIR**, Govt. of India to pursue doctoral studies in chemical sciences during 2007- 2011.
- Awarded **Best Poster Award** in Science day celebrations held at National Chemical Laboratory, Pune in February 2008
- Awarded **Travel Fellowship (2009)** from Department of Science and Technology, Govt. of India to present research paper in international conferences outside India
- Awarded **CSIR travel grant (2009)** from CSIR, Govt. of India to present research paper in international conferences outside India
- Awarded **Travel Fellowship (2010)** from Indian National Science Academy, Govt. of India to present research paper in international conferences outside India
- Won First prize in Chess, Carom, and Rummy completion in Research Scholar Meet held at National Chemical Laboratory, Pune during the year 2007, 2008, & 2009.

QUALIFICATION

M.Sc., M.Tech., Ph.D.

DATE OF JOINING

17.01.2019

EXPERIENCE IN YEARS

3 years

AREA OF RESEARCH

Magnetic nanoparticles
Material Science,
Nanomaterials,
Catalysis,
Molecular Docking
Computer Aided Drug Design

MEMBERSHIP IN PROFESSIONAL BODIES

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

PUBLICATIONS

- 1) Magnetic Properties of Maghemite Nanoparticles Synthesized by Microwave Hydrothermal Method
V. Sreeja and P.A.Joy*, *Material Research Bulletin*, 42 (2007) 1570–1576
- (2) Size dependent coordination behavior of $MgAl_2O_4$ nanoparticles from ^{27}Al solid state NMR studies
V. Sreeja, T. S. Smitha, Deepak Nand, P.K.Madhu and T.G.Ajithkumar and P. A. Joy, *J. Phys. Chem. C*, 112 (38), (2008) 14737–14744
- (3) Magnetic and Mössbauer spectroscopic studies of NiZn ferrite nanoparticles synthesized by a combustion method
V. Sreeja, S. Vijayanand, S. Deka and P. A. Joy, *Hyperfine Interactions* 183, (2008) 99–107
- (4) Effect of interparticle interaction on the magnetic properties of magnetite nanoparticles after coating with Dextran
V. Sreeja, H.S. Potdar and P. A. Joy*, *International Journal of Nanotechnology* 2009, (in press)
- (5) Rapid generation of hierarchical nanoarchitectures of CdS via facile microwave assisted hydrothermal/semi-solvothermal route
Manish D. Shinde, Amol U. Pawar, **V.Sreeja**, Sunit Rane, Hari S. Potdar and Dinesh P. Amalnerkar. *Int. J. Nanotechnol.*, Vol. 7, Nos. 9/10/11/12, 2010
- (6) Water-dispersible ascorbic-acid-coated magnetite nanoparticles for contrast enhancement in MRI
Sreeja, V, Jayaprabha, KN, Joy, PA Joy *Applied Nanoscience* 2015, Volume 5, Issue 4, pp 435–441

INVITED LECTURES (as Resource Person)

- Participated and presented an oral demonstration entitled CADD using Discovery Studio and Autodock vina in **“Workshop on Innovations and entrepreneurship in Industrial Chemistry”** held at TKMM college, Nangiyarkulengara, Kerala during February 2019
- Invited talk and demonstration on e-Brochure Designing in **“Workshop on e-Brochure Designing”** (Online mode) as a part of Platinum Jubilee Celebration organized by SD College Alappuzha, Kerala on 14th August 2021
- Invited talk and demonstration on e-Brochure Designing in **“Workshop on e-Brochure Designing & e-Certificate Generation”** (Online mode) organized by VTM NSS College, Dhanuvachapuram, Trivandrum, Kerala from 21st January 2022 to 23rd January 2022.
- Invited talk and demonstration on e-Brochure Designing in **“How to design a brochure???”** organized by Science Club & PG Department of Chemistry, T. K. Madhava Memorial College, Nangiarkulangara, Kerala on 28th January 2022.

PROJECT

“Studies on lead optimization of plant derived bioactive compound as coronavirus main protease inhibitor” funded by The Kerala Council for Science Technology & Environment (KSCSTE) from 2021 onwards

ORIENTATION/REFRESHER/SHORT TERM COURSES ATTENDED

- One-month Induction Training programme conducted by PMMMNMST, School of Education, Central University of Kerala, Kasaragod from 23. 09.2019 to 22.10.2019.
- Four Week Online Course on Learn Moodle Basics conducted by Moodle HQ, Perth Australia during April 2020.
- Online Course on How to write a helpful peer review report conducted by Research Academy, Elsevier, Amsterdam, Netherlands during April 2020.
- Online Course on How to peer review a review article conducted by Research Academy, Elsevier, Amsterdam, Netherlands during April 2020.

- Online Course on Teach 2030 Facilitator Training Course conducted by Commonwealth Education Trust, London, UK during May 2020.
- Online Course on Introduction to LateX conducted by Geo University, Sepapaja 6, 15551 Tallinn, Estonia during April 2020.
- Online Course on Introduction to Remote Sensing conducted by Geo University, Sepapaja 6, 15551 Tallinn, Estonia during April 2020.
- 10-hour course on Technology, innovation and management conducted by the Open University of UK, Milton Kynes during April 2020.
- Five days FDP on G Chem Pain and LibreOffice Suite Writer conducted by DKMM College for Women, Vellore, Tamil Nadu in association with Spoken Tutorial Project, IIT Bombay, MHRD, Govt. of India (under PMMMNMTT), from 04. 05.2020 to 10.05.2020.
- Five days FDP on Innovative Teaching Learning Methodologies conducted by Teaching Learning Centre (under PMMMNMTT), Coimbatore Institute of Technology, from 06. 07.2020 to 10.07.2020.
- Online Short-Term Course on Research Methodology conducted by Shri RLT College of Science, Akola in association with Amaravati University, India from 13. 07.2020 to 16.07.2020.
- One Week online FDP on E-Content and ICT Tools for Innovative and effective Teaching conducted by K.S. Jain Institute of Engineering and Technology (Approved by AICTE) Ghaziabad, Lucknow, India from 15. 07.2020 to 21.07.2020.
- Six days online FDP on Educational Video Creation for Teachers conducted by Rajarshi Chatrapati Sahoo College Kolhapur from 22. 07.2020 to 27.07.2020.
- One Week online FDP on E-Content and ICT Tools for “Implementation of Information and Communication Technology in Teaching, School of Legal Studies, CUSAT I collaboration with The Kerala State Higher Education Council from 18. 07.2020 to 24.07.2020.
- Five days Faculty Development Program on Nanomaterials Characterization Techniques and Results Analysis Methodology: Ideas Innovations & Initiatives conducted by Savitribai Phule Pune University (under PMMMNMTT), Pune, India from 27.07.2020 to 31.07.2020
- Five days Faculty Development Program on Towards a Digital Era of Teaching and Learning conducted by KSMDDB College Sasthamkotta in association with UGC HRDC University of Kerala from 12.08.2020 to 18.08.2020
- Five days Faculty Development Programme on “Research and Career” held from 19th to 23rd October 2020 organized by Vimala College (Autonomous) Thrissur, Kerala, supported by DBT-STAR College Scheme, Government of India.
- National Virtual Workshop on Computational Biology and Chemistry tools for Drug Designing, from October 03-06, 2020” Organized by Department of Zoology and Microbiology, Thiagarajar College, Madurai.
- One day workshop on “Artificial Intelligence in Drug Discovery” organized by CSIR-North East Institute of Science and Technology, Jorhat on 01-09-2020.
- One Week National Faculty Development Program on Research Ethics and Characterisation Techniques in Material Science from 09-15 September jointly organized by Guru Angad Dev Teaching Learning Centre, S.G.T.B. Khalsa College, University of Delhi under the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT) of MHRD and Bishop Moore College, Mavelikara, Affiliated to the University of Kerala & St. John's College, Agra.
- One Week National Faculty Development Program on Multimedia Enriched PowerPoint Presentation from 11-16th August 2020 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.
- Refresher course in Material science : Recombinant Mimetics, conducted by UGC-HRDC, University of Calicut, From 21/10/2020 to 06/11/2020.

- Online Course on Teach 2030 Facilitator Training Course conducted by Commonwealth Education Trust, London, UK during May 2020.
- Online Course on Introduction to LateX conducted by Geo University, Sepapaja 6, 15551 Tallinn, Estonia during April 2020.
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- One Week National Faculty Development Program on Research Ethics and Characterisation Techniques in Material Science from 09-15 September jointly organized by Guru Angad Dev Teaching Learning Centre, S.G.T.B. Khalsa College, University of Delhi under the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT) of MHRD and Bishop Moore College, Mavelikara, Affiliated to the University of Kerala & St. John's College, Agra.
- One Week National Faculty Development Program on Multimedia Enriched PowerPoint Presentation from 11-16th August 2020 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.
- Refresher course in Material science : Recombinant Mimetics, conducted by UGC-HRDC, University of Calicut, From 21/10/2020 to 06/11/2020.

- Organized and presented a ***DIGICHEM- 2020 – a mobile application quiz*** on 25.01.2020 for UG chemistry students at TKMM College Nangiarkulangara, Haripad.
- Organized and presented a mind freaking game: ***Got Science*** on 28-01-2020 for UG students at TKMM College Nangiarkulangara, Haripad.
- Organized a ***Break the Chain Campaign*** on 18.03.2020 for preparing sanitizer and distributed in the examination halls at TKMM College Nangiarkulangara, Haripad
- Participated and officiated as an Organizing secretary in the webinar on “Role of Chemistry in Crime Investigation” as a part of International Day of Women and Girls in Science” organized by Department of Chemistry, TKMM College Nangiarkulangara on 11th February 2021.
- Participated in **Inter-National seminar** on ‘Outcome based Education: How to write measurable Learning Objectives’ organized by Dept of Mathematics in association with IQAC & NAAC, TKMM College Nnagiarkulangara on 15th February 2021.
- Participated and officiated as programme co-ordinator in the webinar on “Role of Chemistry in Crime Investigation” as a part of International Day of Women and Girls in Science” organized by Departments of Chemistry, Zoology & IQAC, TKMM College Nangiarkulangara on 20th February 2021.
- Participated and officiated as programme co-ordinator in the webinar on “ The Puzzle of Life” as a part of Science Day Celebration organized by Departments of Chemistry, TKMM College Nangiarkulangara on 27th February 2021.
- Participated and officiated as Technical Coordinator in the “e-DARSHAN Webinar Lecture Series-2020” on “Horizons of Virtual Teaching” organized by Department of Commerce & IQAC, T.K.M.M. College Nangiarkulangara on 26th May 2020.
- 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 (PMMMNTI) of MHRD from 13th April, 2020
- Participated in the **Online Workshop on MSc Physical Chemistry Practicals** on 20th and 21st May 2021, organised by Post Graduate & Research Department of Chemistry & IQAC, Sanatana Dharma College, Alappuzha.
- Participated in the **Online Workshop on MSc Organic Chemistry Practicals** on 28th May 2021, organised by Post Graduate & Research Department of Chemistry & IQAC, Sanatana Dharma College, Alappuzha.
- Participated and presented a paper entitled ***“Solid State NMR Studies on Particle Size Dependent Co-ordination Behavior of Al in Spinel Aluminate Nanoparticles”*** in ICONN 2010 held at Sydney Convention and Exhibition Centre, Sydney, Australia during February 2010
- Participated and presented a paper entitled ***“ Superparamagnetic properties of dextran coated Fe₃O₄ nanoparticles”*** in 11th CRSI National Symposium in Chemistry conducted by NCL-Research Foundation on February 2009 at National Chemical Laboratory, India.
- Participated and presented a paper entitled ***“Magnetic and Mossbauer spectroscopic studies of NiZn ferrite nanocrystals synthesized by combustion method”*** in the special symposium on “29th International conference on the applications of the Mossbauer effect” (ICAME 2007) held at