

Brief Biodata

NAME: DR. P. SIDDHURAJU

Designation: Professor and Head & Dean of Research
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Education

- 1994: Ph. D., Botany, Bharathiar University, Coimbatore, TN, India (Highly Commended).
- 1990: M. Phil., Botany, Bharathiar University, Coimbatore, TN, India
- 1988: M.Sc., (72.8%) Botany, Annamalai University, Chidambaram, TN, India
- 1986: B.Sc., (66.0%) Botany, Gobi Arts and Science College (Affl. to Bharathiar University), Coimbatore, TN, India.

Current Area of Research

Research Discipline: BIORESOURCE TECHNOLOGY

Specialisation

Bioresource Potential of Underutilised Crops, Environmental Food Security, Sewage Waste Water Reuse, Microplastics, Zero Waste Agroecosystem.

- Bioresource potential of lesser utilised/neglected or wild relatives of cultivated crops: Impact on sustainable environmental food security, agrobiodiversity, soil fertility improvement and livestock management in rural areas/remote villages/semi urban areas.
- The germplasm collection, conservation, evaluation of Food/Feed potential and nutraceutical attributes of neglected/little known legumes, millets, tubers, fruits and vegetables.
- Domestic Sewage wastewater irrigation and application of sludge on crop productivity and agroecosystem management.
- Microplastic pollution and their characterization in sewage wastewater and soil and their impact on environment, plant and animal growth performance.

Professional Experience (In Chronological Order from Ph. D. onwards)

- Ph.D Work with served as Senior Research Fellow (CSIR-SRF, New Delhi) in the Department of Botany, Bharathiar University, Coimbatore 641046, TN, India from November 1991 to August 1994.
- Served as Research Associate (CSIR-RA, New Delhi) in the Department of Botany, Bharathiar University, Coimbatore, TN, India from July 1995 to December 1996.
- Served as Post-Doctoral Research Scientist in the Department of Metabolism and Nutrition, Instituto Del Frio (IDF), Spanish National Research Council (CSIC), Madrid, Spain from January 1997 to December 1997.
- Served as a Lecturer and Head in charge in the Department of Biochemistry, PGP College of Arts and Science, Namakkal, TN, India from June 1998 to January 1999.
- Served as Alexander von Humboldt (AvH) Post-Doctoral Research Scientist in the Department of Animal Nutrition and Aquaculture, Institute for Animal Production in the

Tropics and Subtropics, University of Hohenheim (480b), Stuttgart, Germany from 1999 to 2001.

- Served as Alexander von Humboldt (AvH) Senior Post Doctoral Research Scientist in the Department of Animal Nutrition and Aquaculture, Institute for Animal Production in the Tropics and Subtropics, University of Hohenheim (480b), Stuttgart, Germany from 2001 to 2003.
- Served as Senior Scientist in the Department of Animal Nutrition and Aquaculture, Institute for Animal Production in the Tropics and Subtropics, University of Hohenheim (480b), Stuttgart, Germany from 2003 to 2004.
- Served as Lecturer in the Department of Biotechnology, Karpagam Arts and Science College, Coimbatore, TN from 02. 06. 2004 to 19. 07. 2005.
- Served as Guest Lecturer in the Department of Botany, Bharathiar University, Coimbatore, from 2nd July 2006 to January 13th 2008.
- Served as Lecturer in the Department of Biotechnology, Bharathiar University, Coimbatore, TN from January 14th AN 2008 to January 31stFN 2009.
- Served as Reader in the Department of Environmental Sciences, Bharathiar University, Coimbatore, TN from January 31st AN 2009 to 31stAN of January 2012.
- Served as Associate Professor in the Department of Environmental Sciences, Bharathiar University, Coimbatore, TN from February 1stFN 2012 to 31stAN January 2015.
- Served as Professor in the Department of Environmental Sciences, Bharathiar University, Coimbatore, TN from 01.02.2015 FN to 30. 06. 2016 AN.
- Served as Professor and Head in the Department of Environmental Sciences, Bharathiar University, Coimbatore, TN from 01. 07. 2016 FN to 13.01.2021FN.
- Serving as Professor and Dean of Research, Department of Environmental Sciences, School of Life Sciences, Bharathiar University, Coimbatore, TN since 13. 01. 2021 (AN) to 13. 6. 2022
- Serving as Professor and Head & Dean of Research, Department of Environmental Sciences, School of Life Sciences, Bharathiar University, Coimbatore, TN since 14. 06. 2022 (FN) to till date.
- As per UGC-Norms and Regulations, total Teaching and Research Experience (Together) is: 28 years and 9 Months (up to November, 2022).

Additional Responsibilities (In Bharathiar University)

- Member, Board of Studies in Bharathiar University Department (UD), Department of Environmental Sciences, Coimbatore, 2009 onwards.
- Member, scrutinizing question papers for various examinations, Bharathiar University, Coimbatore between 30th and 31st, Oct. 2014.
- Question paper setter for M.Sc. Environmental Science Programme, School of Distance Education (SDE mode), Bharathiar University, Coimbatore, since 2015.
- Served as Question Paper setter (Subject: Environmental Sciences) for conducting common eligibility test for M. Phil and Ph. D Admissions at Bharathiar University, Coimbatore-46, since 2016.
- Served as Course Coordinator to conduct the Summer Programme- Refresher course on Environmental Sciences (ID) Interdisciplinary Nature for College/University Teachers organized by UGC-Human Resource Development Centre, Bharathiar University, Coimbatore, 2016.
- Chairman of the PG results passing board and Board of Studies (UD), Environmental Sciences, Bharathiar University, Coimbatore, since 2016.
- Member, DST-PURSE Phase-I (New Delhi), Project implementing Group (PIG), Bharathiar University, Coimbatore from 2011 to 2016.
- Senate Member, (UD), Bharathiar University, Coimbatore, 2016-2021.
- Member, Documentation Verification Committee for NAAC, Bharathiar University, Coimbatore from 21st-23rd March 2016.

- Member of the Standing Committee on Academic Affairs-DES, Bharathiar University, Coimbatore-641046 effective from 22.06.2017.
- Member, Purchase Committee, Dept. of Environmental Sciences, Bharathiar University, Coimbatore since July 2017.
- Member, Ethical and Grievances Readdressal Committee, Bharathiar University, Coimbatore, 2016-17.
- Chairman, PG Board of Studies (SDE), Environmental Sciences, Bharathiar University, Coimbatore, since 2016.
- Appointed as member, TEM-Purchase Committee under DST-PURSE-Phase II, New Delhi, Bharathiar University, Coimbatore, Dec 2019.
- Appointed as member, Swachh Bharat Mission, Bharathiar University, Coimbatore, 23.09.2016 onwards.
- Co-ordinator, Department and Faculty Performance Assessment, Faculty of Sciences, Bharathiar University, Coimbatore, 2020.
- Chairman, BOS in M.Sc. Environmental Sciences, Verification of candidate admission for SDE mode in Bharathiar University, Coimbatore, 2020.
- Member, Ethical and Grievances Readdressal Committee (M.Phil and Ph.D), Bharathiar University, Coimbatore, 2021.
- Member, Standing Committee on Academic Affairs, Bharathiar University, Coimbatore, 2021.
- Member, Board of Studies in Research and Interdisciplinary Research (BOS-RIR), Bharathiar University, Coimbatore-641046. 2021.
- Preliminary and Internal Screening Committee Member, CRTD-Bharathiar University, Coimbatore-46, Research Project Proposal submitting to Tamil Nadu State Council for Higher Education (TANSCH), Chennai-05, 2022.
- Senate Member, Bharathiar University, Coimbatore-641046 since June 2022. To till date.
- Chairperson, Board of Studies in Research and Interdisciplinary Research for Affiliated Colleges/Institutions, Bharathiar University, Coimbatore with effect from 01.01.2022 to 31.12.2023.
- Member, the Disciplinary Action Committee for Research Scholar/Supervisor, Bharathiar University, Coimbatore, 25.08.2022.

Workshops/Training Programmes/Refresher Course etc Organised

1. Organized and conducted a one day workshop and hands on training on ICP-MS under DST-PURSE for Research Scholars on 18th December, 2015 in the Department of Environmental Sciences, Bharathiar University, Coimbatore-46
2. Organized and conducted two days workshop and Training Programme on ICP-MS under DST-PURSE for Faculties/Research Scholars on 16th and 17th of March, 2016 in the Department of Environmental Sciences, Bharathiar University, Coimbatore 46.
3. Served as organizing secretary of world Environment Day (June 5) celebration on June, 8th 2016 in the Department of Environmental Sciences, Bharathiar University, Coimbatore-46
4. Served as Course Coordinator to conduct the Summer Programme-Refresher course on Environmental Sciences (ID) Interdisciplinary Nature for College/University Teachers organized by UGC-Human Resource Development Centre, Bharathiar University, Coimbatore from 10. 05. 2017 to 30. 05. 2017.
5. Organized and conducted two days workshop and Training Programme on ICP-MS and Kjeldahl Nitrogen Analyser under DST-PURSE for Faculties/Research Scholars on 13th and 14th of December, 2017 in the Department of Environmental Sciences, Bharathiar University, Coimbatore 46.
6. Organized and conducted two days workshop and Training Programme on ICP-MS and Kjeldahl Nitrogen Analyser under DST-PURSE for Faculties/Research Scholars on 11th and 12th

of December, 2018 in the Department of Environmental Sciences, Bharathiar University, Coimbatore 46.

Other Academic Responsibilities (National and International)

Served as Chairman of PG and UG Question Paper Setters in Several Universities, Member of Faculty CAS Promotion assessment committee in several Universities, Subject Expert, EVS-PG Board of Studies in several Universities, External Examiner for Ph.D Thesis Evaluation in Several Universities, Syllabus Evaluation Committee Member in Tamil Nadu State Council for Higher Education (TNSCHE), Chennai, Academic Council Member in Autonomous Colleges Affiliated to Bharathiar University, Subject Expert and Member in RUSA 2.0 BEICH-MHRD Project Evaluation Committee (Environmental Sciences) for other Universities, Member in District Environmental Committee, Implementation of “Ban on use of use and throwaway plastics” in Coimbatore District, Reviewer in Several National and International journals, Editor, Indian Journal of Ecology, India, Member in Panel of Eminent Faculty and Advisor to the Rajasthan Public Service Commission (RPSC), Examiner, Tamil Nadu Public Service Commission (TNPSC), Chennai, Member, Tamil Nadu State Council for Higher Education (TANSCH), Chennai etc.

Awards/ Fellowships/Recognitions

1. Selected as a Guest Editor in Frontiers Nutrition –A leading Journal, Lausanne, Switzerland based on the strong research achievements and research publications (e-mail letter dt. 08.07.2022).
2. Awarded an International Distinguished Research Excellence Award 2022 in Environmental Sciences by Centre for Professional Advancement Continuous Education (A Unit of IMRF Regd. with Govt. of India NITI Aayog NGO Darpan), Vijayawada, AP, India, (Letter dt. 30.06.2022) 22nd July, 2022.
3. Appreciation letter awarded for achieving the much coveted status of World to 2% Scientists position (in India) which is based on SCOPUS data released by Stanford University, in Oct. 2021 by Bharathiar University Authority, Coimbatore-46, dt. 28.10.2021, IInd Time.
4. Recognized as One of the World Top 2% Scientist from India in the Field of Environmental Food Security (Food Science) (C-Score: 3.70802447; World Wide Subject Rank: 190; Top Percentage 0.392132582), Study Done by Stanford University, Oct. 2021. USA. IInd Time.
5. Selected as Member of the Royal Society of Research (RSR) based on the “potential research ranking among the top few globally” -Professional Research Membership (PRes), London, England-selection and invitation letter dated on 15. 08. 2021 and Membership dated from 6th September, 2021. Allotted Coupon (ID) No. : RSRPRODB2N.
6. Selected and Awarded E-Membership, Society of Chemical Industry (SCI), London, UK, Membership Number: 225527; Dated 28/07/2021.
7. Department of Science and Technology (DST)–Scientific and Engineering Research Board (SERB), New Delhi, India recognized and awarded SERB Qualified Unique Identification Document (SQUID) Number: SQUID-1965-PS-4698. 2021.
8. Recognized one of the Top 2% Scientist from India in the field of Food Science study done by Stanford University, USA. Research Discipline: Bioresource Technology. Specialization: Environmental Food Security (Food Science). (2020), Ist Time.
9. Awarded a Certificate of Appreciation in grateful recognition of valuable contribution towards achieving top 2% Scientist from India in the field of Food Science (study done by Stanford University, USA) by Bharathiar University, Coimbatore, TN, India. (2020), Ist Time.
10. Awarded Research Citation Certificate by Bharathiar University, Coimbatore, TN, India. 2020.
11. Awarded Reviewer Certificate for served as a Potential Reviewer for Soil Use and Management journal, British Society of Soil Science, UK, (2020).
12. Biography has been selected as one of the 2000 Outstanding Scientists 2008/2009 by the Research Department of the International Biographical Centre (IBC), Cambridge, England.

13. Awarded AvH Foundation equipment grant along with a collaborative Research project (Letter No. 3.4 INI/1051260; 2008-2009) by Alexander von Humboldt (AvH) Foundation, Bonn, Germany.
14. Awarded Visiting Scientist Fellowship at Institute of Feed Science, Zhejiang University, Zhejiang, P.R. China (2006).
15. Awarded Alexander von Humboldt (AvH) Senior Post Doctoral Research Fellowship, AvH Foundation, Bonn, Germany-2001-2003 at the Department of Animal Nutrition and Aquaculture, Institute for Animal Production in Tropics and Subtropics, University of Hohenheim (480b), Stuttgart, Germany (Under long term cooperation programme).
16. Awarded Alexander von Humboldt (AvH) Post-Doctoral Research Fellowship, AvH Foundation, Bonn, Germany-1999-2001 at the Department of Animal Nutrition and Aquaculture, Institute for Animal Production in Tropics and Subtropics, University of Hohenheim (480b), Stuttgart, Germany.
17. Awarded Fellowship for Intensive 8 week German language speaking certificate course-Grundstufe 1, (AvH Foundation, Bonn; Goethe Institute, Schwäbisch-Hall), Germany (Mar. 1999-Apr. 1999).
18. Awarded Post-Doctoral Research Fellowship by Spanish Ministry of Education & Science, Madrid, Spain-1996-1997 at the Department of Metabolism and Nutrition, Instituto Del Frio (IDF), Spanish National Research Council (CSIC), Madrid, Spain.
19. Awarded Travel Grants from Council of Scientific and Industrial Research (CSIR; letter No. 7/1(719)96-HRD; dt. 4.6.1996) Govt. of India, New Delhi and
20. Department of Science and Technology (DST; letter No. SP/PF/260-B/96; dt. 20.6.1996), Govt. of India, New Delhi to attend and present a research paper in the International Conference on *Domestication, Production and Utilisation of New Crops; Practical Approaches* held at University of Southampton, Southampton, UK on 8th-10th July, 1996.
21. Awarded a Research Associateship (RA) by Council of Scientific and Industrial Research (CSIR; letter No. 9/472(59)/95-EMR-I; dt. 11. 7. 1995), Govt. of India, New Delhi from 1995-1996 at Department of Botany, Bharathiar University, Coimbatore, TN, India.
22. Awarded a Senior Research Fellowship (SRF) by Council of Scientific and Industrial Research (CSIR; letter No. 9/472(24)92-EMR-I; dt. 21. 09. 1992), Govt. of India, New Delhi from 1992-1994 at Department of Botany, Bharathiar University, Coimbatore, TN, India.

Membership in Research and Academic Bodies

1. Life member in the Nutrition Society of India, National Institute of Nutrition (NIN), Hyderabad, India.
2. Member in the Association of Food Scientists and Technologists (India), CFTRI, Mysore, India.
3. Member in the Society for Plant Biochemistry and Biotechnology (SPBB), IARI, New Delhi, India.
4. Member in the American Chemical Society (ACS), Washington DC, USA.
5. Life Member in Indian Ecological Society (IES), PAU, Ludhiana, India.
6. Life Member in Indian Science Congress Association (ISCA), No. L40268, Kolkata, India.
7. Member in International Society of Tropical Ecology (ISTE), Banaras Hindu University, Varanasi, India.
8. Life Member in National Ecology and Environment Foundation (NEEF), Mumbai, India.
9. Honorary Member in Indian Society for Life Cycle Assessment (ISLCA), promoted by NEEF, Mumbai, India.

Technical Experiences

Working knowledge and operational techniques of some of the sophisticated instruments like HPLC, AAS, GC, Amino acid Analyser, ICP-MS, UV-Visible Spectrophotometer, Spectrofluorometer, Gel Electrophoresis, FTIR, Ultracentrifuge, Lyophiliser, Rotary Vacuum Evaporator, ELISA, PCR, Micro-Kjeldahl apparatus, Infra-Red based Moisture Analyser, Retsch Ball Mill (Mixer Mill MM

400), Heidolph-Silent Crusher S (Homogeniser), Bomb Calorimeter and Chromatography (ion exchange, gel filtration, affinity chromatography), plant based protein quality assessment through *in vitro* dialysis cell method have been acquired. The experiences have also been gained in the conducting of animal feeding studies such as rat, fish and Poultry.

The Subjects Teaching for PG Degree Programme - Environmental Sciences

1. Waste Management and Bioremediation
2. Instrumental Methods of Analysis
3. Basics in Chemistry and Biology for Environmental Sciences
4. Ecotourism
5. Environmental Management and Sustainable Development
6. Bioresource Technology
7. Vermicomposting
8. Agroforestry
9. Industrial Ecology
10. Introduction to Industry 4.0
11. Natural Hazards and Disaster Management
12. Environmental Toxicology
13. Air Quality Monitoring
14. Practicals: Waste Management and Bioremediation, Environmental Chemistry, Environmental Pollution and Instrumental Methods of Analysis.
15. Mentor/Coordinator: Field/Industrial Visits for PG Students
16. Mentor/Supervisor: Summer Internship Programme Offered for PG Project Students at Bio resource Technology lab.

Ph.D Scholars Fellowships

1. Sathya, A., UGC-Project Fellow, Bioresource Technology Lab, Dept of Environmental Sciences, Bharathiar University, Coimbatore-641046, 2009.
2. Sasipriya, G., BU-University Research Fellow, Bioresource Technology Lab., Dept. of Environmental Sciences, Bharathiar University, Coimbatore-641046, 2011.
3. Nithiyantham, S. Project Fellow, Jatropwer AG, Switzerland and Bioresource Technology Lab., Dept. of Environmental Sciences, Bharathiar University, Coimbatore 641046, 2009.
4. Sangeethapriya, M., BU-University Research Fellow, Bioresource Technology Lab., Dept. of Environmental Sciences, Bharathiar University, Coimbatore-641046, 2011.
5. Aathira, M., BU-University Research Fellow, Bioresource Technology Lab., Dept. of Environmental Sciences, Bharathiar University, Coimbatore-641046, 2016.
6. Dhanya, V., DST-INSPIRE Fellow, New Delhi, Bioresource Technology Lab., Dept. of Environmental Sciences, Bharathiar University, Coimbatore 641046, 2015.
7. Saipriya, V., DST-PURSE Fellow, Phase II, New Delhi, Bioresource Technology Lab., Dept. of Environmental Sciences, Bharathiar University, Coimbatore 641046, 2017.
8. Haritha T Nair., DST-INSPIRE Fellow, New Delhi, Bioresource Technol. Lab., Dept. of Environmental Sciences, Bharathiar University, Coimbatore 641046, 2019.
9. Karthick, V., RUSA 2.0-BEICH-MHRD Project Fellow, New Delhi, Bioresource Technology Lab., Dept. of Environmental Sciences, Bharathiar University, Coimbatore 641046, 2020.
10. Roopika, S. BU-University Research Fellow, Bioresource Technology Lab., Dept. of Environmental Sciences, Bharathiar University, Coimbatore-641046, 2022.

Post-Doctoral Fellow

1. Dr. Navneet Kaur Chahal, UGC-Dr. D. S. Kothari (DSK-PDF) (F-4.2/2006 (BSR) ES/18-19-0034., dt. Oct. 2019) (BU order issued to transfer from Central University of Punjab, Bathinda to Bharathiar University, Coimbatore dt. 17.11.2021).

Sponsored Projects

Completed : 7 (Rs. 74, 86, 600)

Research Guidance

Ph.D : Completed – 11; Submitted -0; Ongoing - 4; M. Phil: Completed -3;
M. Sc : Completed- 47; Ongoing- 1; D. Sc: Awarded – 2: N-PDF: Ongoing -1

Research Publications

Journals: International: 99 National: 3 Training Manual: 1
Conference Papers (Presented): International: 12 National: 43
Books: 1 Book Chapters: 1

Research Citation

	Scopus	Semantic Scholar	Google Scholar
Total Citation	6405	9308	12461
h-index	39	43	47
i10 index	-	-	82

Invited/Special/Guest Lectures

1. Addressed a special lecture on *Experience in Foreign Institutions-Higher Education in Abroad* in a two day workshop (22-23, March, 2007) on Career Guidance for TNAU Graduates Organised by Directorate of Students' Welfare held at Tamil Nadu Agricultural University (TNAU), Coimbatore, 23. 03. 2007.
2. Addressed a guest lecture on *Alternative protein source from under-utilised crops: A case study* in Orientation Course conducted for University and College Teachers, UGC Academic Staff College, Bharathiar University, Coimbatore, 18.01.2008.
3. Addressed a guest lecture on *Bioreosurce Exploration of Underutilized Legumes* in a Refresher Course on Environmental Studies (Multidisciplinary) conducted for University and college teachers from 05. 03. 2009 to 25.03.2009 by UGC-Academic Staff College at Department of Environmental Sciences, Bharathiar University, Coimbatore, 20. 03. 2009.
4. Addressed a invited guest lecture on *Climate Change and Food Security* in the Eco-Club, Department of Chemistry at Dr. Mahalingam College of Engineering and Technology, Pollachi, 04. 04. 2009.
5. Addressed a guest lecture on *Climate Change and Food Security* in UGC-Academic Staff College (Dept. of Botany), Bharathiar University, Coimbatore, 25. 06. 2011.
6. Addressed a guest lecture on *Agricultural Ecosystems-Facts and Trends* in a Refresher Course on Environmental Studies (Multidisciplinary) conducted for University and College teachers from 19.11.2013 to 09.12.2013 by UGC-Academic Staff College at Department of Environmental Sciences, Bharathiar University, Coimbatore, 05.12. 2013.
7. Addressed a guest lecture on *Climate Change and Food Security* in a Refresher Course on Environmental Studies (Multidisciplinary) conducted for University and College teachers from 19.11.2013 to 09.12.2013 by UGC-Academic Staff College at Department of Environmental Sciences, Bharathiar University, Coimbatore, 05. 12. 2013.
8. Addressed an invited lecture on *Recent Trends in Agrobiodiversity* in One day Symposium on Emerging trends in Zoology, organized by Sri Vasavi College, Erode, 26.02.2015.
9. Addressed an invited lecture on *Underutilised Plant Resources and Rural Food Security* in One week Training Programme on Environmental Studies organized by the Department of Botany, Zoology and Faculty of Engineering, Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore, 29. 04. 2015.
10. Addressed a guest lecture on *Recent Trends in Agrobiodiversity* in a Refresher Course on Life Sciences (Interdisciplinary) conducted for University and College teachers from 06. 05. 2015

- to 26. 05. 2015 by UGC-Academic Staff College at Department of Botany, Bharathiar University, Coimbatore, 25. 05. 2015.
11. Addressed a guest lecture on *Recent trends in Agroecosystem* in Summer Programme-Refresher Course on Environmental Sciences (ID), conducted by UGC-Human Resource Development Centre and Department of Environmental Sciences, Bharathiar University, Coimbatore, TN from 10.05.2017 to 30.05.2017.
 12. Addressed a guest lecture on *Neglected Crops on Environmental Food Security* in Summer Programme-Refresher Course on Environmental Sciences (ID), conducted by UGC-Human Resource Development Centre and Department of Environmental Sciences, Bharathiar University, Coimbatore, TN, from 10.05.2017 to 30.05.2017.
 13. Addressed a guest lecture on *ICPMS: Environmental and Biological Applications* in Summer Programme-Refresher Course on Environmental Sciences (ID), conducted by UGC-Human Resource Development Centre and Department of Environmental Sciences, Bharathiar University, Coimbatore, TN, from 10.05.2017 to 30.05.2017.
 14. Addressed an invited guest Lecture on *Recent Trends in Environmental Sciences and Functional Ecosystem*, Dept. of Biotechnology, Dr. NGP College of Arts and Science, Coimbatore, 16.08. 2017.
 15. Addressed special lecture on *Environmental Sciences as a novel multidisciplinary subject: An over view* addressed for the B. Sc. Chemistry students along with two faculty members from Vellalar College for Women (Autonomous), College with potential for Excellence, Erode under a Part of DBT Star College Scheme Programme visited the Department of Environmental Sciences, Bharathiar University, Coimbatore on 06.03.2018.
 16. Addressed an Invited lecture on *Climate Change and Functional Ecosystem Perspectives* in Two days lecture workshop on Impact of Climate Change on Biodiversity and Environment held on 19th and 20th December 2018 at Department of Environmental Sciences, Bharathiar University Coimbatore.
 17. Addressed a three days invited guest lecture on *Eco-Textiles Testing, Standards and Sustainability* for II PG (M.Sc.) Textiles and Apparel Design students on 23, 24 & 29. 10. 2018 in the Dept. of Textiles and Apparel Design, Bharathiar University, Coimbatore-46.
 18. Addressed a National Science Day Invited Lecture on *Plastic Pollution and Environmental Management* in the Department of Chemistry, Nirmala College for Women, Coimbatore, 28.02.2019.
 19. Addressed a guest lecture on *Plastic Pollution and Their Impact in Functional Ecosystem* for Refresher Course in Chemistry for the University and College Teachers conducted by UGC-Human Resource Development Centre and Department of Chemistry, Bharathiar University, Coimbatore on 21.06.2019.
 20. Addressed a guest lecture on *Nature Based Solution for Agricultural Water Management and Environmental Food Security* for Refresher Course in Botany for University and College Teachers conducted from 12.09.2019 to 25.09.2019 by UGC-Human Resource Development Centre and Department of Botany, Bharathiar University, Coimbatore, 19.09.2019.
 21. Addressed a three days invited guest lecture on *Eco-Textiles Testing, Standards and Sustainability* for II PG (M.Sc.) Textiles and Apparel Design students on 09, 10 & 13. 10. 2019 in the Dept. of Textiles and Apparel Design, Bharathiar University, Coimbatore-46.TN.
 22. Addressed an invited guest lecture on *Laboratory Waste Management: Strategic Approaches* under DBT-Star College Programme organized in the Department of Biochemistry, Dr. N G P Arts and Science College, Coimbatore, 01.02.2020.
 23. Addressed a guest lecture on *Forest Bioresource Potential and Management Strategies* for Refresher Course in Environmental Studies (ID) for the University and College Teachers conducted from 06.02 .2020 to 19. 02. 2020 by UGC-Human Resource Development Centre and Department of Environmental Sciences, Bharathiar University, Coimbatore, 19.02.2020.
 24. Delivered an invited lecture on *SDGs: Environment and Climate Change* under the programme of "Guru Dakshata-2021-2022" organised by IQAC-Phase III-a seven-day

Faculty Induction Programme (FIP) for newly recruited faculty members on 13. 05. 2022 (Session-19), Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore.

25. Addressed an invited lecture on *Recent Status of Water Resources* for Refresher Course in Environmental Studies (Multidisciplinary) for the University and College Teachers conducted from 22.11.2022 to 05.12.2022 by UGC-Human Resource Development Centre and Department of Environmental Sciences, Bharathiar University, Coimbatore (25.11.2022 at 2.00 pm to 3.30 pm; I Session)
26. Addressed an invited lecture on *Traditional Strategies of Water Utilisation and Water Conservation* for Refresher Course in Environmental Sciences (Multidisciplinary) for the University and College Teachers conducted from 22.11.2022 to 05.12.2022 by UGC-Human Resource Development Centre and Department of Environmental Sciences, Bharathiar University, Coimbatore (25.11.2022 at 3.30 pm to 5.00 pm; II Session).

Research Articles Recognition

1. Thomson, Essential Science Indicators, in-cites has produced a listing as Rising Star Scientist in Agricultural Sciences that has achieved the highest percentage increase in total citations from the sixth bimonthly period of 2005 to the first bimonthly period of 2006 that is, from December 2005 to February 2006.
2. Food Chemistry, 101(1): 10-19 -selected as one of the top 25 hottest articles in the field of Agricultural and Biological Sciences-Food Chemistry, Elsevier, (January-March, 2007).
3. LWT-Food Science and Technology, 40(6): 982-990-selected as one of the top 25 hottest articles in the field of Agricultural and Biological Sciences-LWT-Food Science and Technology Elsevier, (April-June, 2007).
4. Food Chemistry 107: 1000-1007-selected as one of the top 25 hottest articles in the field of Agricultural and Biological Sciences-Food Chemistry, Elsevier, (October-December, 2007).
5. Asian Pacific Journal of Tropical Medicine, 5: 757-765-selected as one of the top 25 hottest articles in the field of Medicine and Dentistry-Asian Pacific Journal of Tropical Medicine Elsevier, (October-December, 2012).
6. Journal of Food Composition and Analysis, 27: 52-60-selected as one of the top 25 hottest articles in the field of Agricultural and Biological Sciences-Journal of Food Composition and Analysis, Elsevier, (July-September, 2012).

Some of the Recent Research Publications

- Red Amaranth (*Amaranthus tricolor* L.) Irrigated with Domestic Sewage Wastewater as a Source of Irrigation: Environmental Food Security and Safety Assessment Perspectives through Acute and Sub-Acute Toxicity Study. Siddhuraju, P., Dhanya, V., Haritha, T Nair., and Roopika, S. Ecology, Environment and Conservation, **29**, IF:0.450 (2023).
- Effect of Micro plastics and Nano plastics in Terrestrial Animals, Birds, Human and their Implications on Integrated Functional Ecosystem. Roopika, S., and Siddhuraju, P. Indian Journal of Ecology, **49 (6)**, IF: 0.130, (2022).
- Microplastics and Nanoplastics-contaminants of emerging concern in freshwater ecosystem. A review on its sources and ecological risks. Haritha, T Nair., and Siddhuraju, P. International Journal of Ecology, vol.**2022**, ID: **1234078**, IF: 1.600, (2022).
- Is the COVID-19 Pandemic Increasing the Microplastic Load in Our Environment? Haritha, T Nair. and Siddhuraju, P. Pollution Research, **40 (3)**, 144-149, (2021).
- Effect of Domestic Sewage Waste Water Irrigation on Nutritional and Nutraceutical Perspectives of *Eleusine coracana* and *Zea mays* (raw and processed) from Selected Semi urban and rural areas of Coimbatore, Tamilnadu. V. Dhanya, S. Roopika and P. Siddhuraju. Human and Ecological Risk Assessment **26 (8)**, 2203-2224, (2020).

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