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Google Scholar URL : <https://scholar.google.co.in/citations?user=REBP8EkAAAAJ&hl=en>
Alper-Doger Scientific Index : <https://www.adscientificindex.com/scientist/munisamy-govindaraju/484604>
Research Gate ID : <https://www.researchgate.net/profile/Govindaraju-Munisamy>

Contact

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Academic Qualifications

B.Sc. (Zoology), Government Arts College, Dharmapuri-5 (1988)
M.S., (Ecology), Salim Ali School of Ecology, Pondicherry University, Pudhucherry-14 (1992)
PGDSTC., (S & T Communication), Pondicherry University, Pudhucherry-14 (1993)
M.Phil., (Future Studies), Pondicherry University, Pudhucherry-14 (1994)
Ph.D., (Remote Sensing), IRS, CEG, Anna University, Chennai-25 (1995-2003)

Teaching Experience: 21 Years

Research Experience: 30 Years

Additional Responsibilities

- Head, Department of Environmental Biotechnology (Jul 2019- Aug 2022)
- Chair, School of Environmental Sciences (Jun 2019 -Jul 2022)
- Coordinator, Centre for Climate Change Research (March 2017 Onwards)
- Nodal Officer, COVID 19 Prevention, Bharathidasan University (Sep 2020- Oct 2022)
- Director, Students Affairs (Jun 2019-June 2021)
- Coordinator DST-FIST, Dept. Env. Biotech, BDU (April 2018- May 2023)
- Coordinator of Harassment Cell -General (May 2018 Onwards)
- Squad Team Member, Cauvery and Bhavani Male Hostel (Jul2018-Jun 2021)
- Deputy Coordinator of UGC –SAP, Dept. of Env. Biotech, BDU (Aug 2017-Sep 2022)

Areas of Research

- Climate Change Mitigation Studies
- Ecological Restoration and Phytoremediation
- Environmental Remote Sensing and Health GIS
- Urban Bio (Forestry) and CO₂ Sequestration
- Air Pollution and Human Health

Research Supervision / Guidance

	Program of Study	Completed	Ongoing
Research	Ph.D.	14	7
	M.Phil.	15	-
Project	PG	35	-
	UG / Others	7	-

Awards

- Won best paper presentation award during the 2nd Conference on Medical Arthropodology conducted by Centre for Research in Medical Entomology (ICMR), Madurai on 15-16, December 2008
- Council for Scientific and Industrial Research (CSIR) - Government of India awarded Senior Research fellowship for Doctoral Research during April 1997 to March 2000.
- Won Third Prize for best paper presentation during the regional meet on Future studies held at Madurai Kamaraj University - Madurai on 28-29 March 1994.
- Won consolation prize awarded by New Jersey Tamil Sangam, U.S.A. for the essay competition on "*Environmental Protection in Tamil Nadu*" February 1993.

Honours

- University Representative in Academic Council for Sengamala Thayaar Educational Trust Women's College (Autonomous), Sundarakottai, Mannargudi, Thiruvarur (November 2023 onwards)
- University representative in Academic Council for Government of Arts College for Women (Autonomous), Kumbakonam (February 2022-June 2023)
- Chairman, Board of Studies in Environmental Science for UG, PG at Bharathidasan University, Tiruchirappalli (Oct 2021- Nov 2023)
- Subject Expert in Environmental Science for TNPSC, Government of Tamil Nadu (Since 2021)
- Member, Board of Studies in Environmental Science for TANSCH, Government of Tamil Nadu (2020-2023)
- Empanelment of Individual Domain Expert in Environment Management at ICFRE, Dehradun, (2018-2020)
- University Representative on College Committee, Imayam Arts and Science College, Tiruchirappalli-06 (Sep 2021-Sep 2024)
- University Representative on College Committee of Srimad Andavan Arts and Science College, Thiruvanaikovil (Aug 2019-Jun 2022)
- University Representative Board of Studies in Biotechnology for A.V.V.M Sri Pushpan College (Autonomous), Poondi, Thanjavur (Nov 2018- Nov 2021)
- University Representative in Academic Council for Periyar E.V.R. College Thiruchirappalli-23 (2017-2019)

Publication (2005-2024)

International		National		Others	Total
Journals	Conferences	Journals	Conferences	Books / Chapters / Monographs / Manuals	
18	04	41	09	06	78

As on 14.08.2024

h-index : 21
i10 index : 33
Total Citations : 1954

Funded Research Projects

Completed Projects

S. No	Agency	Period		Project Title	Grant (₹ In lakhs)
		From	To		
1.	MoEF& CC	2018	2024	Assessment of air pollution status with co-beneficial factors for Tiruchirappalli city corporation	33.5
2.	UGC STRIDE Component- III (DPR)	2020	2020	Development of Environment and Health Index for Tiruchirappalli City Using Advance Techniques	2.0
3.	OPCFHK	2014	2016	Study on Population Ecology of <i>Rucervuseldii</i> in KeibulLamjao National Park, Indo Burma Biodiversity Hotspot	3.5
4.	DST-SERB	2013	2016	Identification and Evaluation of Novel Plant Species for CO ₂ Sequestration in different Altitudes ranges of Pachamalai Reserve Forest towards Climate Change Mitigation Research	12
5.	NRDMS - DST	2010	2014	Development of Integrated Marine Environment Resource information System (DIMERIS) for Kudankulam Coastal Area – A Sustainable Development approach.	26
6.	ICMR	2009	2012	An Epidemiological Survey of Vector Borne Diseases and Control Strategies for Tribal Health Development Through Remote Sensing and GIS for Sitheri Hills, Dharmapuri District of Tamil Nadu.	16
7.	UGC	2009	2013	An Assessment of Functional Alterations of Forest Ecosystem in Response to Climate Change Through Spatial Technology.	11.75
8.	DST-CO ₂ Sequestration Division	2009	2012	An Integrated Approach to Develop a Specialised Green Belt Model to Minimise Carbon Emission using Remote Sensing, GIS and Biotechnology for NLC Campus, Tamil Nadu.	25

Ongoing Projects

S. No	Agency	Period		Project Title	Grant (₹ In lakhs)
		From	To		
1.	RUSA 2.0	2021	2024	Assessment of Environmental Impact for Tiruchirappalli City and Development of Management Planning Strategies	12.3
2.	DST SERB	2023	2026	Assessment of climate change and its impact on Marine Biodiversity in Gulf of Mannar region using Bio-Spatial technology	25.5
3.	DST-SEED ST-HUB	2024	2027	Development Of Climate Resilience Farming Clusters for the Improvement of Economic Status of Tribal's in Pachamalai Hills of Uppiliapuram Block, Tiruchirappalli District of Tamil Nadu State	138.6

Events organized in leading roles

Number of Seminars / Conferences / Workshops / Events organized: 24

1. National Seminar on “**Air Pollution, Climate Change and Marine Biodiversity**” held on 22.03.2024 organized by Centre for Climate Change Research (CCCR), Department of Environmental Biotechnology, School of Environmental Science, Bharathidasan University, Tiruchirappalli.
2. Researchers Interaction Meet on “**Air Pollution and Human Health**” held on 20.03.2024 organized by Centre for Climate Change Research (CCCR), Department of Environmental Biotechnology, School of Environmental Science, Bharathidasan University, Tiruchirappalli.
3. National Seminar Programme on "**Climate Change and Human Health - A Global Prospective**" held on 28th March 2023 organized by Centre for Climate Change Research (CCCR), Department of Environmental Biotechnology, School of Environmental Science, Bharathidasan University, Tiruchirappalli.
4. RUSA 2.0 Sponsored one day webinar programme on “**Climate Change and Human Health**” organized by Centre for Climate Change Research (CCCR), Department of Environmental Biotechnology, Bharathidasan University, Tiruchirappalli, held on 18th March 2022

5. Webinar Programme on “**Climate Change Impact and Mitigations**” organized by Centre for Climate Change Research (CCCR), Department of Environmental Biotechnology, Bharathidasan University, Tiruchirappalli, held on **28th February 2022**.
6. Webinar programme on “**Ecological Restoration-A need for future**” organized by Centre for Climate Change Research (CCCR), Department of Environmental Biotechnology, Bharathidasan University, Tiruchirappalli, held on **5th June 2021**.
7. Webinar program on “**BUDS THINK 2020**” on the Topic: “**Life Below Water and Life on Land**” organized by Department of Environmental Biotechnology, School of Environmental Sciences, Bharathidasan University, Tiruchirappalli on 31st March 2021
8. Webinar programme on “**Essential of Environmental Studies for Human Life**” organized by Department of Environmental Biotechnology, Bharathidasan University, Tiruchirappalli held on **5th June 2020**
9. National level workshop on “**Health GIS 2020**” organized by Centre for Climate Change Research, Department of Environmental Biotechnology, Bharathidasan University, Tiruchirappalli held on 5th and 6th March 2020.
10. Organized “**World Environment Day**” celebrations at Department of Environmental Biotechnology, Bharathidasan University, Tiruchirappalli on 6th June, 2019.
11. Organized “**National Conference on Impact of Climate Change on Public Health**” at Department of Environmental Biotechnology, Bharathidasan University, Tiruchirappalli on 6th – 7th March, 2018.
12. Organized “**International Seminar on Biology for Sustainable Environment**” at Department of Environmental Biotechnology, Bharathidasan University, Tiruchirappalli on 7th – 8th March, 2017.
13. Organized “**International Conference on Environment and Health in Changing Climate**” at Department of Environmental Biotechnology, Bharathidasan University, Tiruchirappalli on 14th – 16th September, 2016.
14. Organized “**One day Seminar on Environment and Health**” at AGM Higher Secondary School, Eragudi, Tiruchirappalli Dt, TN on 30th October, 2015
15. Organized “**Training Program on Remote Sensing and GIS for Environmental Studies**” at Department of Environmental Biotechnology, Bharathidasan University, Tiruchirappalli on 23rd – 25th March, 2015.
16. Organized “**One day workshop cum awareness program on Environment and Health**” at Government Tribal Residential Higher Secondary School, Top Sengattupatti (Pachamalai Hills), Tiruchirappalli on 5th June, 2014.

17. Organized Training Programme on “**Reduction of CO₂ and other Air Pollutants through Phytoremediation**” held during 29th – 30th December 2011 at Department of Environmental Biotechnology, Bharathidasan University, Tiruchirappalli – 24
18. Organized user Interfaces training program on “**Arc GIS 10 – Environment and Health GIS**” held during 11-15 May 2011 at Department of Environmental Biotechnology, Bharathidasan University, Tiruchirappalli – 24.
19. Organize done day practical training program on “**Global Positioning System**” sponsored by AIMIL Ltd. at Department of Environmental Biotechnology, Bharathidasan University, Tiruchirappalli on 16th June.2011
20. Organize done day training program on “**ERDAS**” held at Department of Environmental Biotechnology, Bharathidasan University, and Tiruchirappalli on 12th May 2011
21. Organized National Conference on “**Climate change and Environment**” held on 17th October 2007 at Bharathidasan University, Tiruchirappalli – 24
22. Contributed as convener “**International Conference on Biotechnological Approaches in Bioresource Management**” (ICBAM – 07) during 23 – 26th January 2007 at Bharathidasan University.
23. Contributed as assistant Co- Ordinator of Refresher Course on “**Environmental Education**” during 2 – 23 November 2006 at UGC – Academic Staff College, Bharathidasan University
24. Organized National Conference on “**Environmental Genomics**” held on 20th March 2006 at Bharathidasan University, Tiruchirappalli – 24 .

Events Participated

Conferences / Seminars / Workshops: 38

International

1. Participated in Aqua- Terr Golden Jubilee International Conference on Genome Biology and Host Defence: Bacteria to Mammals (GBHD 2019) organized by Department of Biological Sciences, Madurai Kamaraj University, Madurai on February 27th- March1st, 2019.
2. Participated in International Conference on Nanomedicine (ICON 2019) organized by Department of Chemistry and Biotechnology, Madurai Kamaraj University, Madurai on February 25th- 26th, 2019.
3. Participated in International Conference on Current Scenario of Physiology and Behaviour (CSPB 2019) organized by Department of Zoology, Periyar Univeristy, Salem on February 22nd – 23rd, 2019.

4. Participated in 2nd International Conference on Environment and Ecology” (ICEE 2016) organized by Department of Environmental Sciences, Bharathiar University, Coimbatore on 7-9th March, 2016.
5. Participated in International Conference on Biodiversity and Biotechnology (ICBB - 2016) organized by Department of Biotechnology, Bharathidasan University, Tiruchirappalli on 25-27th February, 2016
6. Presented a paper during the “International Conference on Solid Waste 2011 Moving towards Sustainable Resource Management” held during 3 – 7 May 2011 organized by Hong Kong Baptist University, Hong Kong SAR, China.
7. Presented a poster in “World Congress on Biotechnology” held during 21-23rd March 2011 at the International convention centre, Hyderabad.
8. Participated in International Seminar on Climate change and Sustainable resource Management” held during 25-26 February 2011 organized by Department of Geography, University of Madras, Chennai.
9. Participated in the “International Conference on E-resources in Higher Education: Issues, Developments, Opportunities & Challenges” held during 19 – 20th February, 2010 organized by Department of Educational Technology & Department of Library and Information Science, Bharathidasan University, Tiruchirappalli.
10. Presented in the “International symposium on Environmental Pollution Ecology and Human Health” held during 25 – 27th July, 2009 organized by Department of Zoology, S.V. University, Tirupati, India.
11. Presented a paper during 6th Annual International Conference and Exhibition on Geographic Information Technology and Applications “Map Asia – 2007” held during 14 – 16th August, 2007 organized by GIS development SDN at Conventional Centre Kuala Lumpur Convention Centre, Kuala Lumpur, Malaysia.
12. Participated in the “8th International Symposium on Vectors & Vector Borne Diseases” held during 13 – 15th October, 2006 organized by Centre for Research in Medical Entomology (Indian Council of Medical Research), Madurai.
13. Presented a poster at the International conference on “Coastal and Freshwater Issues” held on 8 – 10 December, 2003 organized by Institute for Ocean Management, Anna University, Chennai.
14. Presented a paper in the International Conference on Ecological Engineering held 23 – 27th November, 1998 at Science City, Calcutta.

National

1. Participated in the National Conference on Recent Trends in Microbial Biotechnology (RTMBT-2023) organized by Department of Marine Biotechnology, Bharathidasan University, Tiruchirappalli on 24th February 2023.

2. Participated in the National Seminar on Biomolecular Structure and Dynamics (BSAD-2019) organized by Department of Physics, Periyar University, Salem on 28th to 29th March 2019.
3. Presented a paper during ESRI India User Conference 2017 titled “Assessment of Land Use/Land Cover Changes and Its Impact on Wetland Ecosystem of Loktak Lake using Remote Sensing and GIS Techniques - A Ramsar Site in Indo Burma Biodiversity Hotspot” held during 19-20th January, 2017 organized by ESRI India, New Delhi.
4. Participated in the National Conference on “Advances in Biological and Environmental Sciences” (NCABES-2016) organized by Department of Biology, Gandhigram Rural Institute-Deemed University, Dindigul on 25th – 26th February, 2016.
5. Presented a paper during Tropical Ecology Congress: Tropical Ecosystems in a changing World titled “Assessment of Vegetation density dynamics and its influence on landscape ecology of Pachamalai Reserve Forest, using NDVI techniques” held during 10-12th December, 2014 organized by School of Environmental Sciences, Jawaharlal Nehru University, New Delhi.
6. Participated in “15th Esri India User Conference” held on 9-11th December, 2014 organized by Esri India, Delhi.
7. Presented a paper during the User Interaction Meet 2014 titled “Application of Remote Sensing Techniques for Vector Ecology and Pollution Studies” held during 20-21st January 2014 organized by National Remote Sensing Centre and Indian Space Research Organization.
8. Presented a paper during the “Brain storming Conference on Dengue Scenario in India: Disease burden, Surveillance and Control” held during 25 -26 July 2013 organized by Centre for Research in Medical Entomology (Indian Council of Medical Research), Madurai.
9. Presented a paper during “Second Indian Biodiversity Congress a national seminar” held during 9-11 December 2012 organized by Centre for Innovation in Science & Social Association at Indian Institute of Science, Bangalore.
10. Presented a paper during the “6th Conference of Medical Arthropodology” held during 18 – 19th October 2012 organized by Centre for Research in Medical Entomology (Indian Council of Medical Research), Madurai.
11. Presented a paper during the “5th Conference of Medical Arthropodology” held during 18 – 19 October 2011 organized by Centre for Research in Medical Entomology (Indian Council of Medical Research), Madurai.
12. Participated “National seminar on spatial strategies for Sustainable Management” held on 14-16 February 2011 organized by Department of Environmental Management, Bharathidasan University, Tiruchirappalli.

13. Participated in the seminar on “Looking Forward: Challenges of Climate on Water and Land in commemoration of World Water Day and World Forest Day 2010” held on 22 March 2010 organized by Centre for Climate Change and Adaptation Research, Anna university, Chennai.
14. Participated in the National Seminar on “Current Trends in Bioinformatics Teaching & Research” held during 16 – 18 February 2009 organized by Centre for Excellence in Bioinformatics, Pondicherry University, Puducherry, India.
15. Participated in the “2nd Conference of Medical Arthropodology – Climate Change & Vector Borne Diseases” held during 15–16 December 2008 organized by Centre for Research in Medical Entomology (Indian Council of Medical Research), Madurai.
16. Participated in the one-day seminar on “Oil & Gas Industry – Academia Interface” held during 5 April 2007 organized by Institute of Remote Sensing, Anna University, Chennai.
17. Participated as a resource person at AICTE Training programme on “GIS techniques for Environmental Governance, Urban Management and Rural Development” held during 21–04 May 2008 organized by BU-DRDO Center for Life Sciences, Bharathiar University Campus, Coimbatore.
18. Presented a paper during the “National Seminar on Disaster Management & Mitigation” held on 12 April 2006 organized by Department of Civil Engineering, Mahendra Engineering College, Namakkal.
19. Participated in the National Level Workshop on “Electronic Engine Management – AUTOMAT-2K5” held on 18 March, 2005 organized by Department of Mechanical Engineering, Jayam College of Engineering & Technology, Dharmapuri.
20. Participated in the National Level workshop on “Environmental Degradation & Pollution Awareness” held on 28 June 2004 organized by Department of Science & Humanities, Jayam College of Engineering & Technology, Dharmapuri.
21. Presented a paper during the National Conference on “Trend in Technology for Convergence” held on 25 June, 2004 organized by Jayam College of Engineering & Technology, Dharmapuri.
22. Participated in the “FOPCOM-2K4-National Level workshop on Fiber optic communication” held on 11–12 June, 2004 organized by School of Electronic & Communication and Electrical Science, Jayam College of Engineering and Technology, Dharmapuri.
23. Participated in National Level Workshop on “Nano Technology” held on 28–29 May, 2004 organized by School of Mechanical Sciences, Jayam College of Engineering & Technology, Dharmapuri.
24. Participated in AICTE sponsored workshop on “Information Technology in Bio-medical Engineering” held on 7–8 May 2004 organized by Jayam College of Engineering and Technology, Dharmapuri.

25. Presented a paper at the Regional Meet on Future Studies held on 28–29 March 1994 organized by Centre for Future studies, Madurai Kamaraj University, Madurai.

Other Training Programs

- 1) Completed “**Refresher’s course for Environmental Studies**” at Academic Staff College, Bharathidasan University, Tiruchirappalli during 28th February, 2015 to 20th March 2015.
- 2) Completed **sponsored Refresher Course on Renewable Energy (Inter Disciplinary)**” at Rural Energy Centre, Gandhigram Rural Institute – Deemed University, Gandhigram during 01–22 December 2011.
- 3) Completed a training programme on “**The Aspects of Remote sensing**” held at Department of Geology, Bharathidasan University, Tiruchirappalli from 26- 30, October 2006.
- 4) Completed a training programme on “**Introduction to ArcGIS 9**” at ESRI India, Chennai from 19–23 June 2006.
- 5) Completed “**UGC Sponsored Orientation program**” during 10 May – 06 June 2006 conducted by Bharathidasan University, Tiruchirappalli - 24.
- 6) Completed the “**Faculty Induction Program**” during 26 – 27th December 2005 conducted by Bharathidasan University, Tiruchirappalli 24.
- 7) Completed one-week training programme on **Lead Auditor/ Auditor (ISO 9001 – 2000)** during 20– 24 April 2004 at BSI (P) Limited, Chennai – 40.
- 8) Completed the training Programme on “**Application of Remote Sensing and GIS to Coastal and Marine Studies**” from 10– 28 February 2004 at Institute of Ocean Management, Anna University, Chennai – 25.
- 9) Completed training Programme on “**Remote Sensing and GIS**” during 9 February to 13 March 1998 (Arc/Info) at Institute of Remote Sensing, Anna University, and Chennai - 25.

Refresher Course Organized

- 1) Served as Deputy Coordinator for “**Environmental Education**” organized by Academic Staff College, Bharathidasan University, Tiruchirappalli during the period of 02.11.2006 to 23.11.2006.
- 2) Served as Coordinator for “**UGC Sponsored Online Refresher Course in Environmental Sciences (Multidisciplinary)**” organized by Human Resource Development Centre, Bharathidasan University, Tiruchirappalli during the period of 24.02.2021 to 09.03.2021

Overseas Exposure / Visits

1. Presented a paper in the International Conference “The International Conference of Solid Waste 2011” Moving towards Sustainable Resource Management” held on 3 – 7 May 2011, Baptist University, Hong Kong, SAR.
2. Presented a paper in the International Conference “Map Asia 2007” held on 14 – 16 August 2007 at Conventional Centre, Twin towers, Kuala Lumpur, Malaysia and Visited Monash University.

Membership Professional Bodies

1. The International Association for Ecology (INTECOL) – Life member.
2. Indian Society of Remote Sensing (ISRS) – Life Member.
3. Indian Climate Research Network (ICRN) – Life member
4. Institute of Electrical and Electronics Engineers (IEEE) – Annual Member (2003)

Editorial Board

- Indian Journal of Biotechnology
- Applied Nanoscience (Springer)
- International Journal of Advanced Remote Sensing And GIS
- Journal of Environmental Biology
- Universal Journal of Medicine and Dentistry
- International Journal of Plants, animals And Environmental Science
- Journal of Chemical Engineering and Material Science
- International Research Journal of Biochemistry and Bioinformatics
- African Journal of Environmental Science
- Journal of Engineering and Technology Research
- International Journal of Livestock Production
- Journal of Environmental Chemistry and Ecotoxicology
- Journal of Law and Conflict Resolution
- International Journal of Oceans and Oceanography

Advisory Board

- 1) Member of Scientific Advisory Committee in Centre for Research in Medical Entomology (ICMR), Madurai – 02(2006- 2016)

Academic Bodies

1. Member Board of studies for A.V.V.M. Sri Pushpam college, Poondi, Thanjavur (2018 – 2021)

2. Member in Academic Council for Periyar EVR College, Trichy – 23 (2017 -2019)
3. Member Board of studies for PG Environmental Biotechnology, Bharathidasan University (2019 - 2021).
4. Doctoral Committee member for more than 15 research scholars at various University Departments and Colleges
5. External Examiner for several Colleges and Universities.
6. Question papers Setter for PG level Examination from various colleges - Mahendra college of arts and science, PSG College of Arts and Science, A.V.C. College, Bharathidasan University, Periyar University, Bharathiyar University, Manonmaniam Sundaranar University, etc.,
7. Member Board of studies for PG Environmental Sciences, Bharathidasan University (2016 - 2019).
8. Member of Centre for Research in Medical Entomology (ICMR), - Institutional Animal Ethical Committee – 2011.
9. Member of Scientific Advisory Committee in Centre for Research in Medical Entomology (ICMR), Madurai – 02 (2009 to 2015)
10. Member of Periyar University Institutional Animal Ethical Committee and Construction of Animal house – 2010.

Others

- 1) Member of Institutional Animal Ethical Committee in Centre Research in Medical Entomology (CRME), Madurai - 2011.
- 2) Member of Institutional Animal Ethical Committee in Periyar University, Salem – 2010

Resource persons in various capacities

Number of Invited / Special Lectures delivered: 40

1. Invited lecture delivered on **“Climate Change Monitoring Using Remote Sensing and Geographic Information System”** and **“Biological Disasters-An Overview”** during Refresher Course in Environmental Studies (Multidisciplinary) organized by HRDC, Bharathiyar University, Coimbatore on 9th December 2023
2. Invited lecture delivered on **“Natural Resources Management through Remote Sensing and GIS ”** during UGC-Sponsored Short Term Course on ‘Environmental Education organized by HRDC, Bharathiyar University, Coimbatore on 11th October 2023.

3. Invited lecture Delivered on “**Art of Writing Project proposals**” organized by CICRSD, Holy Cross College (Autonomous), Tiruchirappalli on 20th September 2022.
4. Delivered lecture on **UGC-Sponsored Online Refresher Course in Life Sciences (ID) topic on “Bioresources Monitoring Assessment and Conservation for Sustainable Future”** organized by HRDC, Bharathiar University, Coimbatore – 46 held on 13th September 2022.
5. Invited lecture delivered on “Air Pollution Impact on Human Health” organized by SRM Medical College and Research Center, Irungalur, Tiruchirappalli on 21st May 2022.
6. Delivered lecture on AICTE - Sponsored Six Days Online STTP on “Disaster Risk Management - Phase III” topic on “**Global Warming Climate Change Induced Disasters**” organized by Anna University, BIT Campus, Tiruchirappalli-24 held on 15th December 2021
7. Delivered lecture on AICTE - Sponsored Six Days Online STTP on “Disaster Risk Management - Phase III” topic on “**Remote Sensing and GIS for Disaster Management**” organized by Anna University, BIT Campus, Tiruchirappalli-24 held on 15th December 2021.
8. Delivered lecture on AICTE - Sponsored Six Days Online STTP on “Disaster Risk Management - Phase I” topic on “**Environmental Disasters**” organized by Anna University, BIT Campus, Tiruchirappalli-24 held on 01 December 2021.
9. Delivered lecture on AICTE - Sponsored Six Days Online STTP on “Disaster Risk Management - Phase I” topic on “**Biological Disasters**” organized by Anna University, BIT Campus, Tiruchirappalli-24 held on 01 December 2021
10. Delivered lecture on **UGC-Sponsored Online Refresher Course in Environmental Studies (Multidisciplinary)** organized by Department of Environmental Sciences Bharathiyar University, Coimbatore – 46 held on 16 November 2021
11. Delivered lecture on in **UGC-Sponsored Online Refresher Course in Environmental Sciences (Multidisciplinary)** held on 8th March 2021
12. Delivered lecture on International E- Colloquium **topic on “Environment Degradation and Climate Change”** organized by Centre for Environmental Science, University of Madras, Chennai held on 27 August 2021
13. Delivered lecture on **Refresher Course in Nanoscience** organized by **UGC-Human Resource Development Centre**, University of Madras held on 17st October 2020
14. Delivered a lecture for **World Environment Day celebrations 2020** organized by **Department of Environmental Biotechnology**, School of Environmental Sciences, **Bharathidasan University**, Tiruchirappalli held on 6th June 2020.
15. Delivered a lecture for **International Conference on Combating Climate Change**,

saving Lives and Sustainable Development -2020 organized by Departments of Civil Engineering, Biotechnology, Mechanical Engineering and Centre for Energy and Environment in **Periyar Maniammai Institute of Science & Technology** in association with **Cape Breton University & Poovulagin Nanbargal, Chennai** at **Valluvar Hall, PMIST, Vallam, Thanjavur** held on 23rd and 24th January 2020

16. Delivered an lecture and Judge for “**Exhibition Cum Plenary Lecture on Immunology and Immunotechnology** (EEI-2019) organized by Department of Marine Biotechnology, Bharathidasan Univeristy, Tiruchirappalli on 12th to 13th March, 2019.
17. Delivered invited lecture on “**Anti Plastic Campaign** ” during the period of 9th, 10th, and 11th October, 2018 on **Plastic And Environment Effects** at the Department of Commerce, Physical Education and Chemistry of Bharathidasan University, Tiruchirappalli respectively.
18. Delivered an invited lecture on “**Application of Remote Sensing and GIS technology on Agriculture**” during the One-day interactive workshop on “Engineering interventions on soil and water conservation measures – Challenges for their ecofriendly adoption” organized by Tamil Nadu Agricultural University, Kumulur on 19th July 2017.
19. Delivered a lead lecture on “**Remote Sensing and GIS for Environmental Studies**” during the 2nd International Conference on Environment and Ecology (ICEE 16) organized by Department of Environmental Sciences, Bharathiar University, Coimbatore on 7-9th March, 2016.
20. Delivered a lecture on “**Phytoremediation techniques to enhance biological sequestration of CO2- Case studies**” held on 30th July, 2015 during ACBCCS 2015 at Climate Change Research Institute, University of Madras, Chepauk, Chennai-600 005.
21. Delivered an invited lecture on” Environmental **Impact of E-Waste and Management practices through Remote Sensing and GIS**” during the CSIR sponsored seminar on Issues and Challenges in E-Waste Management and Recycling organized by School of Communication and Computer Sciences, Electronics and Communication Engineering, Kongu Engineering College, Erode, 21st September, 2013.
22. Delivered an invited lecture on “**Biotechnology in Sustainable Environmental Management**” during the Students Awareness Program organized by Mahendra Arts and Science College, Tiruchengode, on 7th September, 2012.
23. Delivered an invited lecture on “**Antimalarial activity of synthesized Silver Nanoparticles – An Overview**” during the 5th Conference of Medical Arthropodology organized by Centre for Research in Medical Entomology (Indian Council of Medical Research), Madurai, during 18 – 19 October, 2011.
24. Delivered an invited lecture on “**Sustainable Technologies for Green Environment**” during the sponsored staff development program at Kalaingar Karunanidhi Institute of Technology. Coimbatore during 01 – 14 June, 2011

25. Delivered an invited talk at the National Conference on Biotechnological approaches for sustainable environment held on 6-7 August, 2010 at J.J. College of Arts and Science, Pudukottai.
26. Delivered an invited lecture on “**Atmospheric pollution**” and “**Air quality monitoring through Remote sensing and GIS**” in ISRO sponsored Training programme on “Applications of Atmospheric science and Remote sensing in Environmental Management” in Bharathiyar University, Coimbatore on 19th May 2010.
27. Delivered an invited lecture on “**Global climatic changes and its effects on earth**” in a meet held by Tamil University, Thanjavur on 23rd April 2010.
28. Delivered an Invited lecture at the “**National Conference on Natural Resource Management**” held on 16th February 2010 at Tamil University, Thanjavur.
29. Delivered an invited lecture at the “**National Workshop on Remote sensing and GIS**” held on 6th February, 2010 at Jayam College of Engineering, Dharmapuri.
30. Delivered an invited lecture on “**Environmental Awareness Meet**” held by National Bank for Agriculture and Rural Development, Pudukottai on 29th January, 2009.
31. Delivered an invited talk on “**Climatic change assessment and its influence on vector borne diseases – An Overview**” during the 2nd Conference on “Climate change and vector borne diseases: Forecasting epidemics, Prevention and control” held at Centre for Research in Medical Entomology (ICMR), Madurai on 15-16 December, 2008.
32. Delivered a Plenary lecture on “**Forecasting of Vector Borne Diseases out breaks in respect with Climate - an Integrated Approach using Remote Sensing, GIS and Vector Biology**” during the 2nd Conference on “Climate change and vector borne diseases: Forecasting epidemics, Prevention and control” held at Centre for Research in Medical Entomology (ICMR), Madurai on 15-16 December, 2008.
33. Delivered an invited lecture on “**Vector Borne Diseases surveillance – Mapping and monitoring using Remote Sensing and Geographical Information System (GIS)**” during "Multi-colloquial Brain storming meeting on Vector Borne Diseases" held at Centre for Research in Medical Entomology (ICMR), Madurai on 10-11 May, 2008.
34. Delivered an invited lecture during the refresher course on “**GIS Techniques for Environmental governance, Urban Management and Rural Development**” held at BU-DRDO center for Life Sciences, Bharathiar University, Coimbatore from 21st April 2008 – 4th May 2008.
35. Delivered an invited lecture on “**Eco-restoration in Tsunami Affected areas using Remote Sensing and GIS**” during the National Seminar on Natural Disasters and Management on 28th December 2006 at P.G. Department of Zoology, Vivekananda College, Madurai.
36. Delivered an invited lecture on “**Ecosystem Types and Management using Remote Sensing and GIS**” during the refresher course on Environmental Education at UGC-BDU Academic Staff College, Bharathidasan University, Tiruchirappalli - 24 on 5th November 2006.

37. Delivered an invited lecture on “**Remote Sensing and GIS for Land use and Cover Change studies and Diseases Control**” during the training programme on “Basic Principles of Remote Sensing” at Department of Geology, Bharathidasan University, Tiruchirappalli - 24 from 21 – 24 November 2006.
38. Delivered an invited lecture on “**Remote Sensing and GIS Applications for Disaster Management and Mitigation: A Special focus on Tsunami**” and **Chief Guest for Valedictory function** during the National Seminar on Disaster Management and Mitigation on 12th April 2006 at Department of Civil Engineering, Mahendra Engineering College, Mallasumudaram, Tiruchengode.
39. Delivered an invited lecture on “**Remote Sensing and GIS in Environmental Impact Assessment**” during the training programme on Remote Sensing, GIS and GPS Application for Modern Surveying and Earth Environmental Studies at Department of Civil Engineering, Adhiyamaan Engineering College, Hosur – 635109 on 20 – 24th March 2006.
40. Delivered an invited lecture on “**Identification of Breeding Habitats of Vectors using Remote Sensing and Geographic Information System**” at Centre for Research in Medical Entomology (ICMR), Madurai – 2 on 18th January 2006

Others

1. Articles published in Newspapers / Magazines: --
2. Products developed: --
3. No. of PhD Thesis evaluated: **17**
4. No. of PhD Public Viva-Voce Examination conducted: **28**
5. Sequences submitted in Gen Bank: **07**

**Social Interests and Initiatives / Articles in Newspapers etc can also be included: --

Publications (2005-2024)

1. S Vaishaly, Anas Bin Firoz, K Sridhar, **M Govindaraju** (2024), “Comprehensive Analysis of Urban Heat Island and Climate Change Impact on the Environment – An Overview” Journal For Basic Sciences, ISSN No: 1006-8341, Volume 24, Issue 5, 2024, Pg. No: 326-334.
2. Kanagaraj Suganthi., Rathinam, M., Ramkumar, M. K., Sreevathsa, R., **Govindaraju Munisamy**, (2023) entitled “Comparative assessment of leaf photosynthetic traits for improved carbon dioxide fixation in selected tree species of Pachamalai hills” Brazilian Journal of Botany, Volume 46(1), pp1-14.

3. Kalaipriya, P., Vignesh, P., Chakraborty, S, and **Govindaraju Munisamy** (2023) entitled “Assessment of Biochemical Characters and Development of Anticipated Performance Index for Air Pollution Stress Plants in Tiruchirappalli City”. *Journal of Advances in Bioresearch*, Volume14 (2), pp 59-65
4. P.Kalai Priya, P.Vignesh and **M.Govindaraju** (2022), “Air Pollution Tolerance Index of Plants Living in High Traffic Areas of Tiruchirappalli City ” *Indian Journal of Natural Sciences (IJONS)*, Vol 13, 74, pp 48161-48168.
5. J. Fowmitha Banu, P. Vignesh, K. Sridhar and **M. Govindaraju** (2022). “Air Pollution and Its Influence on Human Health: A Public Perception Survey” *Indian Journal of Natural Sciences (IJONS)*, Vol 13, 74, pp 48251-48257.
6. P. Vignesh, J. Fowmitha Banu, P. Kalaipriya, K. Sridhar and **Munisamy Govindaraju** (2021), “A Study on Air Quality Index for Tiruchirappalli City Corporation”. *Ecology, Environment and Conservation*.
7. Kalaipriya, P., Vignesh, P., Senthamilselvi, S., & **Govindaraju, M.** (2021). A Study on Phytochemical Screening, Antioxidant and Antimicrobial Activities of Leaf Extract of *Datura innoxia*. *Asian Journal of Research in Biology*, 24-30. Vol 4 (1)
8. J. Fowmitha Banu, P. Vignesh, K. Sridhar and **M. Govindaraju** (2021), Assessment of “Ambient Air Quality Status in Tiruchirappalli City”. *Pollution Research* (4) Issue.
9. Rajiv Das Kangabam, Muthu Selvaraj, **Munisamy Govindaraju**, (2019), “Assessment of Land Use Land Cover Changes in Loktak Lake in Indo Burma Biodiversity Hotspot using Geospatial Techniques”. *The Egyptian Journal of Remote Sensing and Space Sciences*, Elsevier, Vol 22, pp137-143. **IF-3.670**
10. **M.Govindaraju**, R.S.Ganeshkumar, P.Suganthi, V.R. Muthukumar, P.Kumar, P.Visvanathan, (2018), " Production of Polyclonal Antibody against Rubisco Protein and its Functional Analysis in Selected Plants Grown under Air Pollution Stress Environment”. *Indian Journal of Plant Physiology*. Springer, Germany Vol 23, Issue 2, pp 201- 208.**IF-0.810**
11. P. R. Abhilash, K. Suganthi, B. Sarojini Devi and **M. Govindaraju** (2018). “Assessment of spatio-temporal variations of water quality parameters of Noyyal river, Tiruppur area”. *NDCWWC Journal*. Vol 7, Issue 1, 5-9.

12. Rajiv Das Kangabam, Muthu Selvaraj & **MunisamyGovindaraju** (2018). "Spatio-temporal analysis of floating islands and their behavioral changes in Loktak Lake with respect to biodiversity using remote sensing and GIS techniques". *Environmental Monitoring and Assessment*. Springer, Germany, 190: 118. DOI:10.1007/s10661-018-6485-x(**IF- 1.804**)
13. Suganthi K, Sarojini Devi B, Suganthi P, **Govindaraju M** (2017). "Evaluation of potential storage of organic carbon in soil and trees: A case study". *International Journal of Ecology and Development*. India Vol 32, Issue 4, pp 29-38.
14. Rajiv Das Kangabam and MunisamyGovindaraju (2017). "Anthropogenic activity-induced water quality degradation in the Loktak lake, a Ramsar site in the Indo-Burma biodiversity hotspot". *Environmental Technology*. Taylor&Francis, UK, DOI: 10.1080/09593330.2017.1378267 (**IF- 1.666**)
15. T. Selvankumar, C. Sudhakar, **M. Govindaraju**, K. Selvam, V. Aroulmoji, N. Sivakumar, M. Govarthan (2017). "Process optimization of biogas energy production from cow dung with alkali pre-treated coffee pulp". *3 Biotech*, Springer, Germany, 3-8. (**IF- 1.497**)
16. Rajiv Das Kangabam, Sarojini Devi Boominathan, Suganthi Kanagaraj, **GovindarajuMunisamy**(2017). "Development of a Water Quality Index (WQI) for the Loktak Lake in India". *Applied Water Science*. Springer, Germany Vol 7, Issue 6, pp 2907–2918
17. Suganthi Kanagaraj, Muthu Selvaraj, Rajiv Das Kangabam, **GovindarajuMunisamy** (2017). "Assessment of Tree Species Diversity and its Distribution Pattern in Pachamalai Reserve Forest, Tamil Nadu". *Journal of Sustainable Forestry*. Taylor & Francis, India Vol. 36, Issue 1, pp32-46.**IF:1.27**
18. Rajiv Das Kangabam, Suganthi Kanagaraj, **GovindarajuMunisamy**(2016). "Assessment of carbon sequestration potential of Loktak lake in Manipur - A Biodiversity Hotspot". *International Journal of Conservation Science*. Romania, Vol. 7, Issue 4, pp1145-1152. (**IF- 0.59**)
19. Rajagopal Appavu, Deepa Mohan, Ramu Kakumanu and **GovindarajuMunisamy** (2016) "Fundamental of Secondary Structures in Peptide Based Synthetic Nanovaccine Development". *Transcriptomics*, USA, Vol. 4, Issue 1.
20. C. Sudhakar, T. Selvankumar, K. Selvam and **M. Govindaraju** (2016) "Bauhinia *purpurea* L. flower mediated dye used as sensitizers for TiO₂ based dye sensitized solar cells". *International Journal of Advanced Science And Engineering*, Mahendra publication, India, Vol. 2, Issue 4, pp209-213.
21. Viswanathan and **M. Govindaraju** (2015) "Genetic diversity assessment of green mussel, *pernaviridis* in south indian coastal region using microsatellite markers". *International journal-Asian Journal of Microbiology, Biotechnology and Environmental Science*. Central Fisheries Research Institute (CFRI) Trabzon, , Japan, Vol. 17, Issue 4, pp 109-117

22. Rajiv D Kangabam, Sarojini D Boominathan, **MunisamyGovindaraju** (2015) "Ecology, disturbance and restoration of Loktak Lake in Indo-Burma Biodiversity Hotspot- An overview". NeBIO, NECEER I Imphal, MN, Vol 6, Issue 2, pp 9-15(**IF-0.998**)
23. P. Suganthi, **M. Govindaraju**, B. Sarojini Devi, Rajiv Das Kangabam, K. Suganthi, V. Thenmozhi and B.K. Tyagi (2015) "Mapping of Spatio-Temporal Distribution of Mosquito Vector Density in Sitheri Hills Using GIS Technology". International Journal of Advanced Remote Sensing and GIS. Cloud Publications, India, Vol 4, Issue 1, pp 873-883. (**IF- 1.97**)
24. B. Sarojini Devi, P. Suganthi, K. Suganthi and **M. Govindaraju** (2015) "Mapping of Ground water quality for Ramanathapuram Taluk of Tamil Nadu using Remote Sensing and Geographic Information System". International Journal of Advanced Remote Sensing and GIS. Cloud Publications, India Vol 4, Issue 1, pp 873-882 (**IF- 1.97**)
25. P. R. Abhilash and **M. Govindaraju** (2015) "Assessment of Land Use/ Land Cover change detection and its impact on Environment for Tiruppur Area using Remote Sensing and GIS". Indian Journal of Natural Science. India, Vol. 5, Issue 28, pp 2615-2625. (**IF- 1.97**)
26. P.R. Abilash and **M. Govindaraju** (2015) "Performance Assessment of CETPs Post Zero Liquid Discharge Implementation in Tiruppur, Tamilnadu". International Journal of Current Research. India, Vol. 7, Issue 2, pp -12332-12336.
27. P. Suganthi, **M. Govindaraju**, V. Thenmozhi, and B. K. Tyagi. (2014) "Survey of mosquito vector abundance in and around tribal residential areas". Journal of Entomology and Zoology Studies. Akinik Publications, India Vol. 2, Issue 6, pp 233-239
28. P. Viswanathan, V. R. Muthukumar, **M. Govindaraju**. (2014) "RAPD analysis for genetic diversity of Green Mussel (*Perna viridis*) in South Indian of Coastal Region". Biotechnology International, India, Vol. 7, Issue 2, pp 47-57.
29. P. Kumar, S. Senthamilselvi, **M. Govindaraju**. (2014) "Phloroglucinol encapsulated starch biopolymer: Preparation, antioxidant and cytotoxic effect on HepG2 liver cancer cell lines". RSC advances, Royal Society of Chemistry, UK, Vol. 4, pp 26787-26795. (**IF- 2.936**)
30. P. Kumar, S. Senthamilselvi, **M. Govindaraju** and Renu Sankar. (2014) "Unravelling the caspase-mediated mechanism for phloroglucinol-encapsulated starch biopolymer against the breast cancer cell line MDA-MB-231". RSC Advances, Royal Society of Chemistry, UK, Vol. 4, pp 46157-46163. (**IF- 2.936**)
31. S. Veeralakshmi, S. Nehru, S. Arunachalam, P. Kumar, **M. Govindaraju**. (2014) "Effect of the Single and Double Chain Surfactant-Cobalt (III) Complexes on their Hydrophobicity, Micelle Formation, Interaction with Serum Albumins and Antibacterial activities". Inorganic Chemistry Frontiers, Royal Society of Chemistry, UK, Vol. 1, pp 393-404.

32. Macklin Rani L., Jeevanram R. K., Kannan V., Govindaraju M. (2014) "Estimation of Polonium -210 activity in marine and terrestrial samples and computation of ingestion dose to the public in and around Kanyakumari Coast, India". Journal of Radiation Research and Applied Sciences, Elsevier, Netherland, Vol. 7, Issue2,pp336-341.
33. M. Govarthan, K. Selvam, S. Kamala-Kannan, M. Govindaraju, B. Senthilkumar, T. Selvankumar. (2014) "Process optimization of cellulase production from alkali-treated coffee pulp and pineapple waste using *Acinetobacter* sp. TSK-MASC". RSCAdvances, Royal Society of Chemistry, UK, vol.4, pp 13045-13051(**IF- 2.936**)
34. M. Selvaraj, Rajiv Das Kangabam, P. Kumar, P. Suganthi, **M. Govindaraju**. (2013) "Assessment of forest cover dynamics through Remote Sensing and GIS for Pachamalai Reserve Forest of Tamil Nadu, India". International Journal of Remote Sensing and Geoscience, India, Vol. 2, Issue 5, pp 46-52.(**IF- 0.564**)
35. P. Suganthi, R.S. Ganeshkumar, **M. Govindaraju**, M. Selvaraj, P. Kumar. (2013) "Estimation of Biochemical characters of plants in response to vehicular air pollution stress in Tiruchirappalli city corporation, Tamil Nadu, India". International Journal of Recent Scientific Research, India, Vol.4, Issue8, pp 1282-1289.
36. B. Sarojini Devi, D. Vijayasekaran, Rajiv Das Kangabam, M. Selvaraj, **M. Govindaraju**. (2013) "Dynamics of Land-use and Land-Cover changes on Wetlands of Ramanathapuram district, Tamil Nadu – Remote sensing and GIS perspective" International Journal of Current Research, India, Vol. 5, Issue9, pp 2515-2519.
37. M. Selvaraj, Rajiv Das Kangabam, P. Kumar, **M. Govindaraju**. (2013) "Assessment of Land Use / Land Cover Class Conversions within the Forest Ecosystem through Remote Sensing and GIS Technology" International Journal of Recent Scientific Research, India Vol. 4, Issue 5, pp560-562.**IF:4.29**
38. S. Senthamilselvi, P. Kumar, A. Lakshmi Prabha, **M. Govindaraju** (2013) "Green simplistic biosynthesis of anti-bacterial silver nanoparticles using *Annona squamosa* leaf extract" Nano Biomedicine and Engineering, India, Vol. 5, Issue2, pp 102-106.
39. Rajiv D. Kangabam, K. Medhabati and **M. Govindaraju**. (2013) "Importance of Geographical Indication for Conservation of Traditional Products" NeBIO, India, Vol 4, Issue 2, pp55-58. (**IF- 0.998**)
40. P. Kumar, S. Senthamilselvi, **M. Govindaraju**. (2013) "Seaweed-mediated biosynthesis of silver nanoparticles using *Gracilariacorticata* for its antifungal activity against *Candida* spp". Applied nanoscience, Springer, Germany, Vol. 3, pp 495-500.(**IF- 2.951**)
41. P. Kumar, **M. Govindaraju**, S. Senthamilselvi, K. Premkumar. (2013) "Photocatalytic degradation of methyl orange dye using silver (Ag) nanoparticles synthesized from *Ulva lactuca*". Colloids and Surfaces B: Biointerfaces, Elsevier, Netherland Vol. 103, pp658-661.(**IF- 3.997**)

42. L. Macklin Rani, M.R. Muthukumar, **and M. Govindaraju.** (2013) “Isolation and Functional Characterization of Lead-Resistant Enterobacter Aerogenes (BDUP1) from paint industry effluent contaminated site”. Fresenius Environmental Bulletin, Elsevier, Netherland Vol. 22, Issue 2, pp 336-341. **(IF- 0.673)**
43. P. Kumar, S. Senthamilselvi, **M. Govindaraju.** (2013) “GC-MS Profiling and Antibacterial activity of Sargassum tenerrimum”. Journal of Pharmacy Research, Elsevier, Netherland, Vol. 6, Issue 1, pp 88-92. **IF- 3.90**
44. P. Kumar, S. Senthamilselvi, **M. Govindaraju.** (2012) “In vitro anti-biofilm and anti-bacterial activity of Juncella juncea for its biomedical application” Asian Pacific Journal of Tropical Biomedicine, Vol. 2(12), 930-935.
45. P. Kumar, S. Senthamilselvi, A. Lakshmi Prabha, M. Selvaraj, L. Macklin Rani, P. Suganthi, B. Sarojini Devi, **M. Govindaraju.** (2012) “Anti-bacterial activity and In-vitro cytotoxicity assay against brine shrimp using silver nanoparticles synthesized from Sargassum ilicifolium”. Digest Journal of Nanobiomaterials and Biostructures, Vol. 7(4), 1447-1455. **IF- 0.640**
46. P. Kumar, S. Senthamilselvi, A. Lakshmi Prabha, K. Prem Kumar, V.R. Muthukumar, P. Visvanathan, R.S. Ganeshkumar and **M. Govindaraju.** (2012) “Efficacy of Biosynthesized silver nanoparticles from Acanthophora spicifera to encumber biofilm formation”. Digest Journal of Nanomaterials and Biostructures, Vol. 7(2), 511-522. **IF- 0.640**
47. P. Kumar, S. Senthamilselvi, A. Lakshmi Prabha, K. Prem Kumar, R. S. Ganeshkumar and **M. Govindaraju.** (2012) “Synthesis of silver nanoparticles from Sargassum tenerrimum and screening phytochemicals for its antibacterial activity”. Nano Biomedicine and Engineering, Vol. 4(1), 12–16. **IF- 0.78**
48. **M. Govindaraju,** R. S. Ganeshkumar, V. R. Muthukumar, P. Viswanathan. (2012) “Identification and evaluation of air pollution tolerant plants around lignite based thermal power station for greenbelt development”. Environmental Science and Pollution Research, Vol. 19, 1210-1223. **IF- 3.0**
49. V. R. Muthukumar, P. Visvanathan, R. S. Ganeshkumar, L. Macklin Rani and **Govindaraju. M.** (2011) “Microbial Community Changes Induced By Thiocyanate Released From Sago Factory Effluent”. Environmental Science-An Indian Journal, Vol. 6(6). **IF- 0.45**
50. **M. Govindaraju,** P. Kumar, M. Selvaraj and C. Rajina. (2011) “Study on Physico-Chemical Parameters along the Coastal waters around Kudankulam Nuclear Power Plant”. International Journal of Oceans and Oceanography. Vol. 5(1), 73 – 83. **IF- 0.57**
51. T. Selvankumar, M. Goverthan and **M. Govindaraju.** (2011) “Endoglucanase production by Bacillus amyloliquefaciens using coffee pulp as substrate in solid state fermentation”. International Journal of Pharma and Bioscience. Vol. 2(3), 355-362.

52. **M. Govindaraju**, L. Palanikumar, V.R. Muthukumar., P. Visvanathan and R.S. Ganeshkumar. (2010) "Pollution and its impact on Noyyal river basin – An integrated approach of Remote Sensing and Biotechnology using GIS". *International Journal of Environmental Engineering*, Vol. 2(4), 414-428.
53. T. Selvankumar, M. Goverthanan, **M. Govindaraju**. (2010) "Production of extracellular α -amylase enzyme by *Bacillus amyloliquefaciens* using coffee pulp waste as a substrate. *Biotechnology- An Indian Journal*". Vol. 4(3), 156-159.
54. P. Visvanathan, C. Maruthanayagam and **M. Govindaraju**. (2009)"Effect of Malathion and Endosulfan on Biochemical Changes in *Channa punctatus*". *Journal of Ecotoxicology and Environmental Monitoring*, Vol. 19(3), 251-257
55. P. Visvanathan and **M. Govindaraju**. (2008) "Filariasis Incidence of Thanjavur Town in TamilNadu: An Assessment", *Journal of Ecotoxicology and Environmental Monitoring*, Volume Vol. 18(2), 167-172.
56. V.R. Muthukumar, **M.Govindaraju**, S. Mohandass, P. Visvanathan and R.S. Ganeshkumar (2008) "Evaluation of Neuroprotective role of Garlic (*Allium sativum*) extract and Methionine on Mercury induced toxicity – An Invitro study" *Current Biotica*, Vol. 2(2), 161-172.
57. C. Lakshumanan and **M.Govindaraju**. (2006) "Land use/Land Cover mapping for irrigation sustainability delineation for Agaram watershed using GIS" *Indian Journal of Geographical Society*, Volume 81, (2).
58. **M. Govindaraju**, C. Lakshumanan and V. Nagarathinam. (2005) "Water Resources Potential Assessment using Geomorphic characteristics for Thoothukudi Taluk through Remote Sensing and GIS" *Indian Journal of Geomorphology*, Volume 10(1&2). 59-66.
59. C. Lakshumanan and **M. Govindaraju**. (2005) "Effects of Tsunami Inundation on coastal Landforms and Damage pattern in Tamil Nadu Coast, India" *Indian Journal of Geomorphology*, Volume 10(1&2), 121-136.

Books (Papers as Monograph)

Books (Papers as Monograph)

1. **Munisamy Govindaraju**, J. Fowmitha Banu, K. Sridhar, P. Vignesh, K. Rangarajan, B.K. Tyagi (2021) Identification and Mapping of Mosquitoes Breeding Habitats in Tiruchirappalli City Using Remote Sensing and GIS, Centre for Climate Change, Bharathidasan University, Genetically Modified and other Innovative Vector Control Technologies, 978-981-16-2963-1 Publisher-Springer Nature.
2. **Munisamy Govindaraju**, S, Senthamilselvi, Malti Goel and J. Fowmitha banu (2020) "CO₂ Sequestration Through Phytoremediation Techniques with Special Emphasis on Urban Forestry to Mitigate Climate Change Impact". *Climate Change and Green Chemistry of CO₂ Sequestration*. Pg 263 -271, ISSN 1865-3529 Publisher-Springer.

3. P. Suganthi, **Munisamy Govindaraju**, Rajiv Das Kangabam, K. Suganthi, V. Thenmozhi, B. K. Tyagi, (2018), Identification and Mapping of Breeding Habitats of the Filariasis Vector, *Culexquinquefasciatus* Say, 1823, Using Remote Sensing and GIS Technologies: A Case Study from the Endemic Tamil Nadu State, India. Lymphatic Filariasis, Epidemiology, Treatment and Prevention- The Indian Perspectives. pg. 259-269. Publisher. Springer
4. K. Suganthi, K. Rajiv Das, M. Selvaraj, S. Kurinji, Malti Goel, **M. Govindaraju** (2017). "Assessment of Altitudinal Mediated Changes of CO₂ Sequestration by Trees at Pachamalai Reserve Forest, Tamil Nadu, India". Carbon Utilization: Green Energy and Technology. Pg. 89-99.
5. **Munisamy Govindaraju**, I. P. Sunish, B. K. Tyagi, C. Rajina, P. Suganthi (2011), Development of Health Information System using Spatial Technology for Sitheri Hills – An Integrated Approach, published in the book "Managing Health Geospatially", Teri Publication, pp 17-20.
6. **Munisamy Govindaraju** and P. Rani Lalitha. (2011) Assessment and Mapping of Vector's Distribution and Diversity using Remote Sensing and GIS "Entomology: Ecology & Biodiversity", Dr. B. K. Tyagi & Dr. Vijay Veer (Eds.) pp 337-345.

Conference proceedings

- 1) National Symposium on Environment (NSE-20) on "**Mapping and Assessment of Spatial Distribution of Air quality parameters using Geographic Information System (GIS) for Tiruchirappalli City Corporation**" in Earth Sciences, Indian Institute of Technology (IIT), held on 13, 14 and 15th December 2018, Gandhinagar, Gujarat.
- 2) **International** Conference on Current Scenario of Physiology and Behaviour (CSPB2019), Paper entitled on "**Ambient air pollution and its impact on mental health-an overview**" oral presented in Department of Zoology, **Periyar University**, Salem held on March 2019.
- 3) **National** Seminar on Biodiversity for Human Welfare: Current and Future Trends-India (BHWCFI-2019), Paper entitled on "**Ambient air pollution and its impacts on Urban Biodiversity-an overview**" presented in Department of Zoology, **St. Joseph University**, Dimapur, Nagaland held on November 2019.
- 4) Suganthi Kanagaraj, Chinnappan Ravinder Singh, **Govindaraju Munisamy**, Kandasamy Kathiresan. "In Vitro Propagation of Mangroves for Greenbelt Development to Mitigate Climate Change". Proceedings of the 4th International conference of the IUFRO working party 2.09.02: Somatic embryogenesis and other vegetative propagation technologies held on 19-23rd September, 2016 at University of La Plata, Argentina.

- 5) **M.Govindaraju**, K.Suganthi, P.Kalaipriya and V.Vanitha, 2016, Environment and Health in Climate change- An Overview, Environment and Health, pg.1-4, published by Jazym Publication.
- 6) P.Kalaipriya, V.Vanitha, K.Suganthi and **M.Govindaraju**, 2016, Climate Change and Its Impact on Biodiversity, Environment and Health, pg.5-9, published by Jazym Publication.
- 7) K.Suganthi,P.Kalaipriya and **M.Govindaraju**, 2016, Role of soil microbes in carbon storage a climate change mitigation research- An Overview, Environment and Health, pg.31-34, published by Jazym Publication.
- 8) **M. Govindaraju**, K. Suganthi, Rajiv Das Kangabam and S. Kurinji. “Measurement of gas exchange rate in trees at different altitudes of Pachamalai hills”. Proceedings of the National Conference on Climate Change Impacts and Natural Resource Management held on 18th – 19th February, 2016 at Centre for Climate Change & Adaptation Research, Anna University, Chennai.
- 9) **M. Govindaraju**, P. Suganthi, V. Thenmozhi and B.K. Tyagi. “Development Vector Surveillance System through Bio-spatial Technology for Better Public Health Services – A Case Study”/ Proceedings of the 14th ESRI India User Conference in the special theme on “Urban GIS” held on 11-12th December, 2013 at Hotel Kempinski, New Delhi, India
- 10) **M. Govindaraju**, L. Macklin Rani, C. Rajina, M. Selvaraj. “Integrated Waste Management in Urban Areas using Geographic Information System”. Proceedings of the International Conference on “Solid Waste 2011-Moving towards Sustainable Resource Management” held on 2-6 May, 2011 at Hong Kong SAR, P.R, China.
- 11) **M. Govindaraju**, R.S. Ganeshkumar, M. Selvaraj, L. Macklin Rani, P. Kumar, P. Suganthi, I.P. Sunish, V. Thenmozhi and B.K. Tyagi. “Development of new methodologies using remote sensing and GIS technique to control vector borne diseases for Sitheri hills, Dharamapuri district, Tamil Nadu”. Proceedings of 12th ESRI India User Conference in the special theme on “Understanding the world” held on 7-8th December 2011 at Hotel Radisson Blu, Noida (NCR Delhi), India.
- 12) **M. Govindaraju**, R.S. Ganeshkumar, P. Suganthi, V.R. Muthukumar, P. Visvanathan. “Impact Assessment of Air Pollution Stress on Plant Species through Biochemical Estimation”. Proceedings of World academy of Science, Engineering and Technology held on 25-27th August 2010 at Singapore.
- 13) **M. Govindaraju**, V.R. Muthukumar, P. Visvanathan, R.S. Ganeshkumar. “Environment Assessment for Health Management through Spatial Technology – A Case Study from India”. Proceedings of Third International Conference on HealthGIS held on 24-26th July, 2009 at Hyderabad, India

Completed

1. Dr. V.R. Muthukumar (2011)
2. Dr. R.S. Ganesh Kumar (2012)
3. Dr. T. Selven Kumar (2012)
4. Dr. P. Vishvanathan (2012)
5. Dr. L. Macklin Rani (2014)
6. Dr. P. Kumar (2015)
7. Dr. M. Selvaraj (2015)
8. Dr. P.R. Abhilash (2016)
9. Dr. B. Saroji Devi (2016)
10. Dr. Rajiv Das Kangabam (2017)
11. Dr. P. Suganthi (2017)
12. Dr. K. Suganthi (2018)
13. Dr. P. Velusamy (2020)
14. Dr. P. Kalaipriya (2024)

Ongoing

1. Mr. P. Vignesh (2019-Ongoing)
2. Ms. J Fowmitha Banu (2019-Ongoing)
3. Mr. K. Sridhar (2019-Ongoing)
4. Ms. Swagata Chakraborty (2021-Ongoing)
5. Mr. Anas Bin Firoz (2023-Ongoing)
6. Ms. S. Vaishaly (2024-Ongoing)
7. Mr. A.K. Arun Prasath (2024-Ongoing)