



Dr.M.Biruntha

Assistant Professor

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Vidwan ID:115533 ResearcherID: G-2438-2019**

Website : <https://www.alagappauniversity.ac.in/academics/faculty-of-science/school-of-biological-sciences/docs/36402.pdf>

Academic Qualifications

Degree	Institution	Year	Branch	Class
M.Sc	Annamalai University	2000	Zoology	I
M.Ed	Bharathidasan University	2007	Education	I
M.Phil	Bharathidasan University	2008	Zoology	I
Ph.D	Bharathidasan University	2014	Zoology	Highly Recommended

Teaching Experience

Total Teaching Experience : 16 Years

Position	Institution	Duration
Lecturer	Mother Teresa college of Education, Illuppur, Pudukkottai-Dt	2008-2015
Assistant Professor	Department of Animal Health and Management, Alagappa University	30.01.2016 to till date

Research Experience

Total Research Experience : 16 Years

Position	Institution / University	Duration
Research Supervisor	Mother Teresa college of Education, Illuppur, Pudukkottai-Dt / Tamilnadu Teachers Education university	2009-2015
Research Supervisor	Department of Animal Health and Management, Alagappa University	2016-till date

Academic and Additional Responsibilities

S.No	Position	University	Period	
			From	to
1	Warden, Science block women's Hostel	Alagappa University	05.07.2017	06.08.2018
2	Event Coordinator- ALUTES-2017	Alagappa University	14& 18 .10.2017	
3	Dept.Coordinator-ALUTES-2017	Alagappa University	2017	
4	Event Coordinator-Centre on Swachh Bharat and Swasth Bharat	Alagappa University	Sep- 2017& Feb- 2020	
5	In-Charge, Department library	Alagappa University	10.03.2016	Till date
6	Department In-charge, School level executive council of startup cell	Alagappa University	16.08.2018	Till date
7	Department Co-ordinator Village Placement Programme	Alagappa University	2018	2019

8	University Representative for DDE Examinations	Alagappa University	May 2016 & May-2017	
9	Department Coordinator for assisting the IQAC, Annual Report and Academic Audit	Alagappa University	2017	Till date
10	Squad Member, Affiliated Colleges Examinations	Alagappa University	2019	
11	Practical External Examiner , Affiliated Colleges	Alagappa University	2018	Till date
12	Member, Board of Examinations, Department of Animal Health and Management	Alagappa University	2016	Till date
13	Department Co-ordinator,NIRF	Alagappa University	2018	Till date
14	Member, Broad based Board of Studies, Dept.of Animal Health and Management	Alagappa University	2018 to till date	
15	Member, Broad based Board of Studies, Dept.of Zoology DDE	Bharathidasan, University	2022 to till date	
16	Question paper setter in Various University	Alagappa University Bharathidasan, Bharathiyar, PeriyarUniversity, MKU	2017	2019
17	Observer, TNSET, National college, Trichy.	Mother Teresa Women's University	20.04.2017	
18	Co-ordinator, Animal Day celebration	Alagappa University	2019	
19	Co-ordinator, Vermiculture Unit	Alagappa University	2017	Till date
20	Co-ordinator, Dept.Women's day celebration	Alagappa University	2016	Till date

Areas of Research

- **Vermiculture Technology:** Using different technique for stabilization of domestic organic waste, organic farming and solid waste treatment throughvermicompost process
- **Vermiculture and Vermicompost:**The process of decomposition of organic wastes that depends upon earthworms for destruction, variety and upgrade of microbial activity

Patents Filed

- Advanced Breast Cancer Detection System – Application No. 390418-001 – Accepted & Published (Journal No. 08/2018 dated: 23.02.2024)

Research Supervision / Guidance

Program of Study		Completed	Ongoing
Research	PDF	-	-
	Ph.D	-	4
	M.Phil	12	-
Project	PG	35	6
	UG / Others	-	-

Publications

International		National		Others
Journals	Conferences	Journals	Conferences	Books / Chapters / Monographs / Manuals
40	60	1	10	04

Cumulative Impact Factor (as per JCR) : 195

h-index : 21

i10 index : 27

Total Citations : 2548

Publications

Thesis Evaluated : 01

Viva voce Examiner : 01

Funded Research Projects

Ongoing Projects:

S.No	Agency	Period		Project Title	Budget (Rs. In lakhs)
		From	To		
1	RUSA2.0	2018	2022	Fungicidal activity of Humic and Fulvic acid fraction isolated from the vermiproduct against human pathogen <i>Malassezia</i> species	4.50
2	RUSA2.0	2022	2024		4.31

Completed Projects:

S.No	Agency	Period		Project Title	Budget (Rs. In lakhs)
		From	To		
1	AURF	2017	2018	Comparision of Vermicomposting Potential of endemic earthworm species, <i>Eudrilus Eugeniae</i> and <i>Perionyx Excavatus</i> and their gut microbial activity	00.35

Others: Training Programme:

S.No	Agency	Period		Project Title	Budget (Rs. In lakhs)
		From	To		
1	University Bussiness Collaboration Centre-ALU	14.03.2017	14.03.2017	Business resource of Solid Waste Management through Vermicomposting	00.20
2		02.03.2018	08.03.2018		00.80

Distinctive Achievements / Awards

1. Best Educationalist National Award from Human care Human Rights Production, New Delhi-2015.
2. Best Faculty Award IARA-2016, Indian Academic Researchers Association,
3. HAR GOBIND KHORANA memorial best scientist award 2017, BOSE SCIENCE SOCIETY.
4. Appreciation certificaterceived for Warden, Science campus Women's Hostel, Alagappa University.
5. VallalAlagappar Research Recognition Award-2020, Alagappa University.

6. Appreciation certificate received from THEME BASED RESEARCH PROJECT OF 2.0, ALU
7. Promising Research Award -2022, Alagappa University.
8. Pudhugai FM 91.2 Community radio/Tamilnadu Scientific research organization” Animal Welfare Protection and management” 04.10.2022.
9. Ranking for Scientist- World Scientist and University Rankings-2022 by contribution towards the enhancement of Research Outcome of the University in the form of “h” index from Alagappa University.

Number of Seminars / Conferences / Workshops / Events organized:

Position	Programme	Duration	Institution
Co-Organizing Secretary	2nd National Seminar on “ Next Generation Technology for Sustainable Fisheries”	29th & 30th March, 2022	Department of Fisheries Science in collaboration with, Department of Animal Health and Management, ALU
Organizing Secretary	“World Animal Day Celebration & World Habitat Day”	4 th October, 2018	Department of Department of Animal Health and Management and Department of Botany in Alagappa University, Karaikudi
Co-Organizing Secretary	2 nd International Conference on Molecular Physiology, Therapeutics and Experimental Medicine (MP-TEM 2019) on	24 th and 25 th July, 2019.	Department of Department of Animal Health and Management
Organizing Secretary	One week Training Programme on Business Resource of Solid Waste Management through Vermicomposting.,	2nd to 08th March-2018	Department of Animal Health and Management, Alagappa University
Organizing Secretary	Two days Training Programme on Business Resource of Solid Waste Management through Vermicomposting	14 th & 15 th March-2017,	Department of Animal Health and Management, Alagappa University

Events Participated

1. International Conference on “Recent Trends in Bioscience” (ICRTB-2016) organized by Biosciences Department, Alagappa University, Karaikudi held on 7th to 9th April, 2016.
2. International workshop on “Data Science and Analytics” organized by the Department of Computer Science, Alagappa University, Karaikudi held on 27th & 28th September, 2016.

3. International workshop on “Molecular Physiology, Therapeutics and Experimental Medicine” organized by the Department of Animal Health and Management, Alagappa University, Karaikudi held on 6th & 7th September, 2016.
4. National Conference on “Biotechnology-New Horizons and Hopes” (BNHH – 2016) organized by Department of Molecular Microbiology, Madurai Kamaraj University sponsored by DBT, India held on 20th & 21st October, 2016.
5. International Conference on “Recent Trends in Microbiology” (RTM-2016) organized by the Department of Microbiology, Alagappa University, Karaikudi held on 20th & 21st December, 2016.
6. International Conference on “Recent Advanced in Modern Medicine: Molecular Signalling Scenarios in tissues and disease” organized by your “Research and Development Wing, SBMCH, Bharath University, Chrompet, Chennai-600044 held on 3rd & 4th of September, 2016 3rd & 4th of September, 2016
7. National seminar on Recent Developments In Computer Networks (NSRDCN-2016) organized by the Department of Computer Applications, Alagappa University, Karaikudi held on 7th & 8th November, 2016.
8. National Seminar on “Nanomaterial’s for Specialized Applications (NMSA-2017) organized by the Department of History, Alagappa University, Karaikudi held on 9th & 10th February, 2017.
9. National Conference on “Emerging Trends in Computing (NCETC-2017) organized by the Department of Computer Science, Alagappa University, Karaikudi held on 13th & 14th March, 2017.
10. National Conference on “Entrepreneurship and innovation in Biotechnology for sustainable development”, organized by Tamilnadu scientific research organization, Pudukkottai held on 28th & 29th July, 2017.
11. National Conference on “Contemporary Issues in Justice and Human Rights”, organized by Department of History, Alagappa University held on 25th & 26th September, 2017.
12. “National conference on Trends in Microbiology (NCTM-2017)” organized by the Department of Microbiology, Alagappa University, Karaikudi held on 27th September, 2017.
13. Short term course on “Research Publication and Anti-Plagiarism” organized by Dept. Of English and Foreign languages, Alagappa University held on 9th to 15th October, 2017.
14. National Conference on “Contemporary Issues in Justice and Human Right (CIJHR-2017) organized by the Department of History, Alagappa University, Karaikudi held on 25th & 26th December, 2017.
15. Faculty Development (Enrichment) Program-Accreditation Quality Enhancement –held in Alagappa University from 6th to 12th January, 2017.
16. Two day Workshop on “Career Prospects and Developments in Computer Science”, organized by the University Business Collaboration centre & Department of Computer Science, Alagappa University, Karaikudi, on 27th & 28th February, 2017.
17. Workshop on “Commercialization prospects of microbial formulates”, organized by Department of Microbiology, Alagappa University held on 22nd to 25th January, 2018.
18. Workshop on “Data analytics consultants”, organized by Department of Computer science, Alagappa University held on 26th to 28th February, 2018.
19. International conference on “Advanced nanomaterial’s”, organized by Department of Nanoscience and technology, Alagappa University held on 27th February, 2018.

20. International conference on “Molecular advances in biomedical research”, organized by Department of Zoology, Nehru Memorial college, Puthanampattai held on 9th & 10th February, 2018.
21. Short term course on “Computer networks and R Programming “organized by Department of Computer applications, Alagappa University held on 31st January and 1st February, 2018.
22. National Seminar on “Sensitizing the women on Environmental Issues” organized by Department of Zoology, Rajah Serfoji Government College, Thanjavur held on 22nd and 23rd March 2018.
23. 8th National Conference on Natural Sciences, organized by Bose Science Society, Pudukkottai held on 15th September, 2018.
24. National Seminar on “Biotechnological Solutions for Environmental Challenge (BITSFECs – 2018)” organized by Department of Environmental Biotechnology, Bharathidasan University, Thiruchirappalli held on 17th December, 2018.
25. One Day Workshop on “Design and Development of MOOCs”, organized by Alagappa University held on 8th November, 2018.
26. National Workshop on “Indigenous Cow Management & their Value Added Products” (ICMVAP-2K18) organized by Department of Animal Health and Management, Alagappa University held on 18th & 19th December, 2018.
27. 6th World congress on Nanomedical Sciences (ISNSCON 2018) organized by University of Delhi, India held on 7th to 9th January 2019.
28. 5th International Conference on Nanoscience and Nanotechnology (ICONN2019) organized by Department of Physics and Nanotechnology, SRM University held on 28th to 30th January 2019
29. “3rd International Conference on Recent Trends in Microbiology [RTM-2019]” organized by Department of Microbiology, Alagappa University, and Karaikudi held on 24th & 25th January, 2019.
30. International conference on “HORIZON 2019: The Epitome of Biomedical Research” organized by Saveetha Dental College, Chennai held on 28th February & 1st March, 2019.
31. Two Days International workshop on “Biomedical Applications in Translational Research (BATR – 2019)” organized by Department of Biomedical science & Health Care Centre, Alagappa University held on 6th & 7th June, 2019.
32. One day symposium on “Draft National Educational Policy 2019” organized by Association of University Teachers, Tamilnadu held on 27th July, 2019 at Bishop Heber College, Trichy.
33. 2nd International Conference on “Molecular Physiology, Therapeutics and Experimental Medicine (MP-TEM 2019)” organized by the Department of Animal Health and Management, Alagappa University, Karaikudi held on 24th & 25th July, 2019.
34. 9th National Conference on Natural Sciences, organized by Bose Science Society, Pudukkottai held on 24th August 2019.
35. International conference on “Computational Sciences (ICCS2019)” organized by Department of Computer science, Alagappa University held on 23rd & 24th October-2019.
36. International conference on “Innovative and Emerging Trends in Botany (ICIETB-2019)” organized by Department of Botany, Alagappa University held on 6th & 7th November, 2019.
37. One Day Workshop on “Water Conservation “organized by Jal Shakti Environment awareness club, Alagappa University held on 22nd November, 2019.
38. “Anti-plastic campaign rally at villages” organized by Centre for Swachh Bharat & Swasth Bharat, Alagappa University held on 1st July -30th November 2019.

39. International conference on “Recent trends in Bioplastics (RTB-2019)” organized by Department of Microbiology, Alagappa University held on 9th & 10th December, 2019.
40. One Day National Workshop on “Indian Research Information Network System: Adaption & Promotion” (INFLIBNET), Alagappa University held on 8th February, 2020.
41. Webinar on “Product Development and Prototyping” held on 12th May 2020 by BIRAC Regional Techno-Entrepreneurship Promotion Centre (BRTC) KIIT-TBI, Bhubaneswar.
42. "SPSS TRAINING" Online Program conducted on 21st May, 2020 organized by Edu- Skill Harvest Institute.
43. “Do’s and Don’ts in Scholarly writing” online programme organized by Library and information science, Alagappa University held on 18th May, 2020.
44. Three days International virtual Seminar on “The role of Nanotechnology against COVID-19”, organized by Department of Nanoscience and technology, Alagappa University held on 20th to 22nd May 2020.
45. International Webinar on “Waste Management & Sustainability” held on 29th May to 31st May, 2020 organized by Stamford University Bangladesh & Saksham Society, Jaipur Rajasthan, India.
46. Webinar on “Recent Approaches and Human Genes Against Covid 19” held on 11th June-2020 Organized by DDE Zoology wing & Department of Animal Health and Management, Alagappa University.
47. International Webinar on “The Environment Post. COVID: Mirage or Hope?” organized by the Department of Zoology, Arumugam Pillai Seethai Ammal College, Tiruppattur, South India on 26th June, 2020.
48. International Webinar on “Overview of Emerging Infectious diseases and its control measures” organized by the Department of Zoology, Arumugam Pillai Seethai Ammal College, Tiruppattur, South India on 27th June, 2020.
49. International Webinar on “Quorum Sensing: A great therapeutic choice for the development of antimicrobial agents” organized by the Department of Zoology, Arumugam Pillai Seethai Ammal College, Tiruppattur, South India on 24th June, 2020.
50. International Webinar on “Novel alternative treatment strategy for combating the antibiotic resistance in bacterial pathogens” organized by the Department of Zoology, Arumugam Pillai Seethai Ammal College, Tiruppattur, South India on 25th June, 2020.
51. Webinar on “Pest and Disease Management” under the BRTC Agri & Livestock Webinar Series held on 23rd June 2020 by BIRAC Regional Techno-Entrepreneurship Promotion Centre (BRTC) at KIIT-TBI, Bhubaneswar.
52. EHS Webinar 3-Waste Management in Biopharmaceutical Sector: An Integrated Approach organized by National Biopharma Mission on 29th October, 2020.
53. National Webinar on YOGA organized by PG & Research Dept. Of Zoology, Rajah Serfoji government College, Thanjavur on 1st July to 3rd July 2020.
54. International Webinar on “Past Present and future Trends in Vaccinology” organized by the Madurai Kamaraj University on 20th July 2020.
55. Webinar on “Book Series Launch Nutritional Neurosciences” organized by SPRINGER NATURE on 24th July 2020.
56. Webinar on the Response of the DBT’s Autonomous Institutes to COVID-19-Part-I organized by India Alliance on 21st August, 2020.
57. Journal Citation Reports Certificate Journal Citation Reports (JCR) Certification Series-2022, Clarivate on 10th August, 2022

58. One day national level workshop Patenting and Collaborations with Industries organized by Industry and Consultancy wing & University Business Collaboration Centre, ALU on 30th January,2023
59. Seven days National level faculty development Inclusive Procedures and Processes for NAAC Assessment and Accreditation conducted by A.C.T Academy, Tamilnadu from 24.04.2023 to 30.04.2023
60. 5 Day National Level Lecture Series on Energy Conversion and Storage” Faculty Development Program, organized by the Department of Physics, School of Advanced Sciences (SAS), VIT-AP University, Amaravati, Andhra Pradesh, India from 24th to 28th July, 2023 in virtual mode

Other Training Programs

Orientation Courses

1. 100th Orientation Course (Bharathidasan University) (15.11.2017 to 12.12.2017)

Refresher Courses

2. Refresher Course in Zoology (Bharathiar University) (20.06.2019 to 03.07.2019)
3. Refresher Course in Zoology (University of Madras) (18.11.2020 to 01.12.2020)
4. Refresher Course in Zoology (Bharathiar University) (07.09.2022 to 20.09.2022)

Others

5. Training programme on Recent Trends in Software Industries. Role of Income Tax and Sales Tax in Business” held at Department of Animal Health and Management in Alagappa University, Karaikudi held on 3rd March, 2016.
6. “World Animal Day Celebration” organized by the Department of Department of Animal Health and Management in Alagappa University, Karaikudi held on 4th October, 2016.
7. Training Programme on "Live Feed Culture Production (Artemia, Phytoplanktons & Zooplanktons, Spirulina) And Sea Weed Culture And Its Allied Industries” organized by the Department of Animal Health and Management in Alagappa University, Karaikudi held on 26th February, 2016.
8. Contributed to the ALUTES 2017 organized by the Cultural club, Alagappa University, Karaikudi during October 12th to 14th, 2017 as Event Coordinator.
9. Swachhta Pakhwada 2017 conducting Elocution contest as communicated by University Grant Commission, New Delhi and organized by Alagappa University, Karaikudi, during 1-15th September, 2017.
10. Swachhta Pakhwada 2017 conducting clean hostel day as communicated by University Grant Commission, New Delhi and organized by Alagappa University, Karaikudi, during 1-15th September, 2017.
11. “World Animal Day Celebration” organized by the Department of Department of Animal Health and Management in Alagappa University, Karaikudi held on 4th October, 2017
12. Training programme on “Empowering the Change makers in Biopharma Sector” organized by KIIT- Technology Business Incubator and BCIL for National Biopharma Mission, Department of Biotechnology, Government of India at Bhubaneswar during March 3rd to 5th, 2020.
13. Seven days Faculty Development Programme-FDP on Latex organized by Spoken Tutorial Project, IIT, Bombay. Funded by MHRD, Govt. of India.
14. Two-Week online Capacity Building Programme held on 12th to 23rd June, 2020 organized by Alagappa University Under the sponsorship of UGC STRID Component-I scheme.
15. Five days Faculty Development Programme-FDP on “Insights into Marine Biodiversity and Taxonomy”, organized by the Centre for Climate Change Studies, Sathyabama Institute of

Science and Technology, Chennai from 10th to 14th August 2020.

16. As having completed the Publons Academy Practical Peer Review course to a satisfactory level on the 1st of June 2021. Certified PUBLONS Academy Peer Reviewer.
17. Seven days Online workshop on “Role of Technology and some specific Tools in Research” Organized by the academic association, SGTU in collaboration with Prodigy- A Science, FOSC during 28th June to 3rd July,2021.

Membership

Professional Bodies

1. Life Member, Dr.S.Radhakrishnan Teacher’s Welfare Association
2. Life Member, Council for Teacher Education, Tamil Nadu State centre
3. Life Member, Indian Academic Researchers Association
4. Life Member, Tamilnadu Scientific Research Organization

Advisory Board

Year / Period	Name of the BoS / Administrative Committee / Academic Committee	Role
2017 to Till date	Indian Journal of Natural Sciences	Editorial Board Member
2017 to Till date	NamadhuAriviyal-Science Awareness Tamil Monthly	Editorial Board Member

Academic Bodies in Other Institutes/ Universities

Year / Period	Name of the BoS / Administrative Committee / Academic Committee	Role
2022 to till date	Broad based Board of Studies, Dept.of Zoology DDE	Member

Ph.D. Thesis Guided

1. No. of PhD Thesis evaluated : Ongoing
2. No. of PhD Public Viva Voce Examination conducted : -

List of Research Articles / Recent Publications

S. No	Authors/Title of the paper/Journal	Impact Factor
1.	Nadar Manimaran Vinita, Umapathy Devan, Sabapathi Durgadevi, Selvaraj Anitha, Dhamodharan Prabhu, Sundarraj Rajamanikandan, Muthusamy Govarthan, Ananthanarayanan Yuvaraj, Muniyandi Biruntha , Arockiam Antony Joseph Velanganni, Jeyaraman Jeyakanthan, Pitchan Arul Prakash, Mohamed Sultan Mohamed Jaabir, Ponnuchamy Kumar . 2023. Triphenylphosphonium conjugated gold nanotriangles impact Pi3K/AKT pathway in breast cancer cells: a photodynamic therapy approach. Scientific Reports .13 (1) 2230.	4.996
2.	S Sanchae Hullas, C Stella, Muniyandi Biruntha , A Priya, R Nagalakshmi. 2023. Water quality assessment and occurrence of seagrass associated pen shell Pinna bicolor (Gmelin, 1791) and Pinna deltodes (Menke, 1843) in Pudupattinam Coastal Area, Palk Bay, South East Coast, India. Environmental Monitoring and Assessment . 195(1)18.	3.307
3.	Sarah Tamilkani Peter, Priya Adikesavan, Muniyandi Biruntha , Sundarraj Rajamanikandan, Dhamodharan Prabhu, Stella Chellaiyan. 2023. Environmental impact assessment of algal bloom Noctiluca scintillans in the Mandapam group of Islands, Gulf of Mannar Biosphere Reserve, Southeast coast of India, Environmental Monitoring and Assessment . 195(1) 18	3.307
4.	K Priyanka, A Priya, M Biruntha , C Stella , 2023. Scanning Electron Microscope (SEM) studies on Radula of the Spider Conch Lambis lambis and Lambis adamii.(Gastropoda: Prosobranchia: Strombidae) fromThondi Coast, Palk Bay-Tamil Nadu-South East Coast of India. Sustainability, Agri, Food and Environmental Research . Vol.11	-
5.	R.Yedhu Krishnan, S. Manikandan , R. Subbaiya, M. Biruntha R. Balachandar, N. Karmegam 2022. Origin, transport and ecological risk assessment of illicit drugs in the environment–A review Chemosphere , 311(2) 137091.	8.8
6.	Arunachalam Subbulakshmi, Sabapathi Durgadevi, Selvaraj Anitha, Muthusamy Govarthan, Muniyandi Biruntha , Palanivel Rameshthangam & Ponnuchamy Kumar.2022. Biogenic gold nanoparticles from Gelidiella acerosa: bactericidal and photocatalytic degradation of two commercial dyes. Applied Nanoscience 311(2) 137091	3.8
7.	Chidhambaram T Madhumitha, NatchimuthuKarmegam, Muniyandi Biruntha , AlagarsamyArun, Abdulaziz A Al Kheraif, Woong Kim, Ponnuchamy Kumar (2022) Extraction, identification, and environmental risk assessment of microplastics in commercial toothpaste Materials Letters . Volume 296, June 2022, 133976	3.5
8.	SivasubramanianManikandan, RamasamySubbaiya, MuniyandiBiruntha , RadhakrishnanYedhu Krishnan, GovarthanMuthusamy,	8.0

	NatchimuthuKarmegam (2022) Recent development patterns, utilization and prospective of biofuel production: Emerging nanotechnological intervention for environmental sustainability–A review. Fuel ,Volume 314,15 April 2022, 122757	
9.	MuniyandiBiruntha , BalanKarunaiSelvi, James Arockia John Paul, PethananSivakumar, SundararajRajamanikandan, DhamodharanPrabhu (2022) Evaluation of hepato and renal protective effect of synthesized nanoparticles using <i>Tinosporacordifolia</i> leaf extract MaterialsLetters Volume 312,1 April 2022, 131642	3.5
10.	Ramalingam Balachandar, Rajendran Navaneethan, MuniyandiBiruntha , Krishna Kumar Ashok Kumar, MuthusamyGovarthan, Natchimuthu Karmegam (2022) Antibacterial activity of silver nanoparticles phytosynthesized from <i>Glochidion candolleianum</i> leaves MaterialsLetters Volume 311, 15 March 2022, 131572	3.5
11.	K Indumathi, S Tamilselvan, L Rajasekaran, A Duke John David, G Shakil Muhammad, G Ramalingam, M Biruntha (2022) Structural and optical properties of Eu ³⁺ doped Sr ₃ Gd [PO ₄] ₃ phosphor white-LED application. Materials Letters , Volume 309, 15 February 2022, 131371	3.5
12.	KurumbanKavitha, James Arockia John Paul, Ponnuchamy Kumar, JayaprakasamArchana, H FarithaBegam, NatchimuthuKarmegam, MuniyandiBiruntha (2022) Impact of biosynthesized CuO nanoparticles on seed germination and cyto-physiological responses of <i>Trigonellafoenum-graecum</i> and <i>Vignaradiata</i> . Materials Letters . Volume 313, 15 April 2022, 131756	3.5
13.	A.Sofiavizhimalar, M.Vasanthy, C.Thamaraiselvi, MuniyandiBiruntha , J. ArockiaJohnPaul,AnandThirupathi, SoonWoongChang, ZhiXugSarahAl-Rashed, GaneshMunuswamy-RamanujamBalasubramaniRavindran(2021) Greener production of compost from agricultural biomass residues amended with mule dung for agronomic application, Chemosphere Available online 12 October 2021, 132561	8.8
14.	DurairajSekar, Ganesh Lakshmanan, M Biruntha (2021) Implications of CRISPR/Cas9 system in Hypertension and its related diseases, Journal of Human Hypertension ,V-35(7) p 642-644	2.43
15.	BirunthaMSoundarya S , Vidhyavathi RM, Joseph Sahayarayan J , Langeswaran K (2021) In silico mechanistic intervention of medicinal plants derived inhibitors against ABL kinase targeting cervical cancer: A novel approach , Biomedical Research ,V-32(1) p 19-23	-
16.	Radhakrishnan Yedhu Krishnan, Sivasubramanian Manikandan, Ramasamy Subbaiya, Muniyandi Biruntha , Muthusamy Govarthan, Natchimuthu Karmegam(2021)Removal of emerging micropollutants originating from	7.1

	pharmaceuticals and personal care products (PPCPs) in water and wastewater by advanced oxidation processes: A review, Environmental Technology & Innovation , p 101757	
17.	Sundaraj Rajamanikandan, Muniyandi Biruntha , Gopal Ramalingam (2021) Blue Emissive Carbon Quantum Dots (CQDs) from Bio-waste Peels and Its Antioxidant Activity, Journal of Cluster Science , p 1-9	3.06
18.	MuthumanickamSankar,BoomiPandi, NachiyappanMutharasan, BalajeeRamachandran, VidhyavathiRamasamy, PooraniGurumalleshPrabu, ShanmugarajGowrishankar, Yao Wang, BirunthaMuniyandi , SubaskumarRathinasamy, BalakumarChandrasekaran, Mohammad F. Bayan, JeyakanthanJeyaraman, GurumalleshPrabuHalliah, Solomon King, (2021) In silico Screening of Natural Phytochemicals Towards Identification of Potential Lead Compounds to Treat COVID-19, Frontiers in Molecular Biosciences ,V-8 p 637122	5.24
19.	Ananthanarayanan Yuvaraj, Muthusamy Govarthan, Natchimuthu Karmegam, MuniyandiBiruntha , Dhanabalan Senthil Kumar, Mohan Arthanari, Rasiravathanahalli Kaveriyappan Govindarajan, Sudipta Tripathi, Swayambhu Ghosh, Ponnuchamy Kumar, Soundarapandian Kannan, Ramasundaram Thangaraj(2021) Metallothionein dependent-detoxification of heavy metals in the agricultural field soil of industrial area: Earthworm as field experimental model system, Chemosphere , V-267 p 129240	8.8
20.	SekarVijayakumar, Mani Divya, BaskaralingamVaseeharan, Jingdi Chen, MuniyandiBiruntha , Luciano Paulino Silva, Esteban F Durán-Lara, Krishnan Shreema, ShivenduRanjan, NanditaDasgupta(2021) Biological Compound Capping of Silver Nanoparticle with the Seed Extracts of Blackcumin (Nigella sativa): A Potential Antibacterial, Antidiabetic, Anti-inflammatory, and Antioxidant, Journal of Inorganic and Organometallic Polymers and Materials -31(2)P 624-635	3.54
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Resource persons in various capacities

National Conferences	:	10
International Conferences	:	1
Invited Lectures	:	24

Others

Reviewer for many International Journals like Environmental Technology & Innovation(Elsevier), Heliyon (Elsevier), Environmental Science and Pollution Research (Springer), Journal of Soil Science and Agroclimatology (Elsevier), Agricultural Research (Springer).Applied Nanoscience(Springer), Chemosphere, , Bioresource Technology, Environmental Research

Sequences submitted in GenBank: 12

MF927959	KY886134	KY886135	MF446964	MH299975	MH299976
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