



**Dr. C. BALALAKSHMI**

**Assistant Professor**

### Contact

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### Academic Qualifications

Degree	Year of Passing	University /Institute
B.Sc., Zoology	2000	Madurai Kamaraj University
M.Sc., Oceanography	2002	Alagappa University
M.Phil., Oceanography	2003	Alagappa University
Ph.D, Oceanography	2012	Alagappa University

### Teaching Experience

Designation	Institution	Department	Duration
Assistant Professor	Alagappa University, Karaikudi	Nanoscience and Technology	January - 30-2016 to till date
Teaching Assistant	Alagappa University, Karaikudi	Animal Health and management	August 2013 to April 2014, and December 2015 to January 2016

**Research Experience:**

**15 years**

## Additional Responsibilities

POSITION	ORGANIZATION
➤ Program officer, Coordinator for National Service Scheme	Alagappa University
➤ Treasurer, Department of Oceanography and Coastal Area Studies, Alumni Association	Alagappa University
➤ Member, Department Research Advisory committee	Alagappa University
➤ Member, Department Purchase committee	Alagappa University
➤ Member, Department Board of Studies committee	Alagappa University
➤ M.Phil-Nano Science & Technology-Class in charge	Alagappa University
➤ Department Co-ordinator for Remedial coaching class	Alagappa University
➤ Department Co-ordinator for Village Placement Program	Alagappa University
➤ Deputy Warden in Science Campus Women Hostel	Alagappa University
➤ Women Employee Club Member	Alagappa University
➤ Department (ALUFA) EC Member	Alagappa University
➤ Department Placement Cell Co-ordinator	Alagappa University
➤ Department, Cultural Committee Coordinator	Alagappa University
➤ Alagu fest event Committee coordinator	Alagappa University
➤ Department Doctoral Committee Member	Alagappa University
➤ Student Welfare and carrier counselling, Member	Alagappa University

## Areas of Research

- **Nano Marine Biology**
- **Bio Nano Materials**
- **Nano Green Biology**
- **Nano Medical Bio Technology**
- **Nano Anti Coating**
- **Food Packaging Application**

## Research Supervision / Guidance

Program of Study	Completed	Ongoing
<b>Research</b>	<b>Ph.D.</b>	<b>Xx</b>
	<b>M.Phil.</b>	<b>06</b>
<b>Project</b>	<b>PG</b>	<b>17</b>

	UG / Others	Xx	Xx
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### Publications

International		National		Others
Journals	Conferences	Journals	Conferences	Books / Chapters / Monographs / Manuals
10	80	5	60	4

### Funded Research Projects

#### Completed Projects

S. No	Agency	Period		Project Title	Budget (Rs. In lakhs)
		From	To		
1	AURF Start Up Research Grant	March-2017	September-2017	ECO-FRIENDLY SYNTHESIS OF SILVER NANOPARTICLES AND CO-FORMULATED DETERGENTS TO CONTROL THE MICROBIAL GROWTH	0.35
2	RUSA 2.0 Theme Based Research Project Grant Allocation	2 Years  Completed		Advanced Nanomaterials & Sustainable Energy and Sensor Applications, Department of Nanoscience and Technology	4.00L
3	RUSA 2.0 Theme Based Research Project Grant Allocation	1 year  Ongoing		Advanced Nanomaterials & Sustainable Energy and Sensor Applications, Department of Nanoscience and Technology	6.00L

#### Others

### Distinctive Achievements / Awards

- The Prestigious “**Adarsh Vidya Saraswati Rashtriya Puraskar**” National Award for Global Management Council on 2<sup>nd</sup> Day of October, 2017, Gujarat

- Global Economic Progress & Research Association (GEPRA) New Delhi, “**National Citizenship Gold Medal Award**” “**Individual Achievements and National Development**” on 01<sup>st</sup> May 2018 at Bangalore.
- **Biography of the Year 2017** , Memento with Certificate to honour of Excellence Meritorious Achievements, Rifacimento International , New Delhi
- **International Women of the Year Award.** Certificate of Achievement. This Certificate is proudly presented for Honorable Achievement for Outstanding Achievements & Distinguished Services to the Nation, 24<sup>th</sup> February 2019. Friendship forum , **New Delhi**, 25<sup>th</sup> February, 2019
- **Acharya Vidya Ratan Award**, Certificate of Achievement 2019, This Certificate is proudly presented for Outstanding and extra-ordinary Achievements in chosen fields of activity and Services rendered to promote greater friendship and India-International Co-operation, New Delhi, 24<sup>th</sup> February 2019.
- **Indira Gandhi National Award**, For Teaching & Research Excellence for outstanding individual Achievements & Distinguished services to the National, Seminar on Economic Growth and National Unity, Friendship forum , New Delhi, 25<sup>th</sup> February, 2019
- **Innovative Scientific Research (Nanoscience and Technology) Dedicated Academician Award**, Innovative Scientific Research Professional Malaysia In Science, Engineering, Business Management Applications & Medical Technology, Issued at Kuala Lumpur, Mara , Malaysia, 20<sup>th</sup>-21<sup>st</sup> October 2018
- **Dronacharya Award**, 28, July, 2019, Indian institute of Global Brotherhood, New Delhi.
- **Life Dedicated service award**, 28, July, 2019, Indian institute of Global Brotherhood, New Delhi.
- **Nelson Mandela international Award**, 28, July, 2019, greater friendship and India-International Co-operation, New Delhi.
- **Marvel Women of India Award**, Friendship forum , New Delhi, 2019
- **Dr. A.P.J Abdul Kalam Rastriya Puraskar Award**, for Global Management Council, Ahmedabad, 2021, Gujarat
- **India’s Most Admirable Women Achievers Award**, for outstanding and Extra Ordinary achievement in chosen Educational fields of activity and Services, Friendship Forum, New Delhi, 2021
- **India’s most dynamic achievers Educationist Award.** for Outstanding contribution for the progress of the Nation and Worldwide, Friendship Forum, New Delhi, 2021
- **Golden World Achievers Education Award**, in the field of Educational Excellence, Friendship Forum, New Delhi, 2022

- **Most outstanding Education service Award**, greater friendship and India-International Co-operation, New Delhi.
- **Star of Asia International Award 2019** for outstanding and extra ordinary achievements and chosen field of activity and services, New Delhi
- **Educationist Award** for her outstanding achievements and distinguished services to the nation and chosen field of activity and services Indian Institute of Global Brotherhood, New Delhi

### Events organized in leading roles

**Organizing Secretary**, Parents Teachers Association Organizing Secretary (Nanoscience and Technology)

**Organizing secretary**, World Standards Day (WSD) 09/02/2017 to 10/02/2017, Nanoscience & Technology, Alagappa University,

**Organizing Member**: Nano materials for specialized applications (**NMSA-2017**) (9<sup>th</sup> February-2017)

**Organizing Secretary**: Advanced Nano materials (**ICAN-2018**) Department of Nano Science & Technology, Alagappa University, Karaikudi, Tamilnadu (26<sup>th</sup> and 27<sup>th</sup> February-2018)

**Organizing secretary**: Two days International Conference on Applied Nanoscience & Nanotechnology (**ICANN- 2019**) Conducted by Department of Nanoscience and Technology, Alagappa University, Karaikudi, Tamilnadu, India, during (18<sup>th</sup> & 19<sup>th</sup> March, 2019)

**Co-Organizing secretary**: Three days International Virtual Conference on Advanced Nanomaterials for Energy and Environmental Applications (**ICANEE- 2020**) Conducted by Department of Nanoscience and Technology, Alagappa University, Karaikudi, Tamilnadu, India, during (16<sup>th</sup> to 18<sup>th</sup> September, 2020)

**Co-Organizing secretary**: Three days International Conference on Advanced Nanomaterials for Energy and Environmental Applications (**ICANEE- 2023**) Conducted by Department of Nanoscience and Technology, Alagappa University, Karaikudi, Tamilnadu, India, during (9<sup>th</sup> to 11<sup>th</sup> March, 2023)

International Conference on Innovative Scientific Research Strategies (**ICISRS 2018**) Innovative Scientific Research Professional Malaysia In Science, Engineering, Business Management Applications & Medical Technology, Issued at Kuala Lumpur, Mara , Malaysia, 20-21 October 2018.

#### **Chaired the Session**

National Conference on Advanced Materials for Sustainable Energy and Sensors (**NCAMSES-2019**) Organized by the Department of Physics, Alagappa University, Karaikudi during 20<sup>th</sup> -22<sup>nd</sup> March 2019. Organized by the Department of Physics, Alagappa University, Karaikudi during 20<sup>th</sup> -22<sup>nd</sup> March 2019, **Chaired the Session**

Two days International Conference on Applied Nanoscience & Nanotechnology (**ICANN- 2019**) Conducted by Department of Nanoscience and technology, Alagappa University, Karaikudi, Tamilnadu, India, during 18<sup>th</sup> & 19<sup>th</sup> March, 2019, **chaired the Session**

Three days International Conference on “International Conference on multidisciplinary research” Organised by Sharnbasva University on 22<sup>nd</sup> to 24<sup>th</sup> November 2022, Kalaburagi, Karnataka. **Chaired the Session**

### **Invited lectures / special lectures**

1. PG Department of Zoology and Department of Botany, Arulmigu Palaniandavar Arts and Science College for Women, Palani on 4<sup>th</sup> February 2019. 4<sup>th</sup> February 2019. Title of the lecture **Introduction to Nanoscience**
2. Sreevee College of Arts and Science, Thadikombu, Dindugal, 5<sup>th</sup> February 2019, Title of the lecture **Nano Marine Biotechnology**
3. **Innovative Scientific Research Professional Malaysia** In Science, Engineering, Business Management Applications & Medical Technology, Issued at Kuala Lumpur, Mara, Malaysia, Hon. Editorial Board Member-Consulting Editor, The society of Innovative Educationalist & Scientific Research Professional (Chennai), Educational membership Fellow **FIESRP**

## **Events Presented**

### **Conferences / Seminars / Workshops:**

#### **List of Papers presented in international conferences / seminars/ workshop participated**

Seasonal Variation and Distribution of Phytoplankton in Thondi Coastal Area –Palk strait (South East Coast of India) Paper presented in an International Seminar on Ecological Balance of Sethusamudram Canal at Thondi, Alagappa University. (October 2004)

The Reproductive Biology of the clam, *Gafrarium pectinatum* and *Gafrarium divaricatum*, from Thondi Coast, Palk Strait region, South-East Coast of India, Paper presented in a National conference “Biotechnological Approaches in Aquaculture” at Bharathiyar University, Coimbatore. (1-3 February 2012)

Preparation and Characterization of  $\text{LiMn}_2\text{O}_4$ , Electrodes using Polyol process), Paper presented in a First Symposium on Advanced Functional Materials (FUNMAT-2016) –Energy Conversion and Storage- CSIR-Centro Electro chemical Research Institute, Karaikudi.( 26-28 may 2016)

Detection of various Stages of reproduction in Clam *Gafrarium tumidum* and *Gafrarium dispar* collected from Thondi Coast, Paper presented in an International Conference “Recent Trends in Biosciences (ICRTB-2016) Alagappa University, Karaikudi (7-9 April 2016)

Analytical Studies on Polystyrene Methylmethacrylate Poly (Sty-MMA)-Poly (Vinyl Chloride) Polymer electrolytes with lithium Salts, Paper presented in an International Conference, “Frontier Areas in Chemical Technologies-2016 (FACTS-2016) Department of Industrial Chemistry, Alagappa University, Karaikudi (21-23 march 2016)

2020- THE VISION OF KALAM – Abdul Kalam Manitha Neya Sinthanaikal-Paper presented in a International journal of Zakir, -Volume -2 Special Issue:ISSN: 2454-2938 (15-16 october 2015)

Cellular and behavioural Toxicity changes assessment of Titanium ions and Nano particles on Zebrafish as a Modal organism, Paper presented in a one day National Seminar on Advance Materials Research, Department of Physics, Alagappa University, Karaikudi. (19 January 2017)

Purification and characterization & Microbial inhibitions of carotenoids from *fenneropenaeus indicas* Paper presented in an International Conference on Recent Advances in Bioresource technology (RABT-2017), Thiruvalluvar University, Vellore (15-17 February 2017)

Facile synthesis of chitosan/Ag/ZnO Nanomicelles and its biofilm inhibition against clinically relevant bacterial pathogens , Paper presented in an International conference on Renewable Energy Science and Technology, , Department of Energy science , Alagappa university, Karaikudi. (10-11 march 2017)

Recent Advances on Surface Engineering of Magnetic – Hydroxyapatite Nanoparticles and their biomedical Application, Paper presented in an International Conference, International Conference on Advance in Functional Materials (ICAFM-2017) Anna University, Chennai. (6<sup>th</sup> -8<sup>th</sup> January 2017)

The development and applications of fermented Seaweed, nutrient digestibility in giant freshwater shrimp, Paper presented in a National Conference, New vistas in Indian Aquaculture, Chennai. (23-24, February -2012)

Assessment of the Reproductive Dynamics of the Soft Shell clam *Gafrarium divaricatum* and *Gafrarium pectinatum* collected from Thondi Coastal waters, Palk Strait, South East Cost of India. Paper presented in an International Seminar on “Recent Trends in Aquatic animal Biotechnology” (RTAAB’2013) Department of Animal Health and Management, Alagappa University, Karaikudi. (21-22 October 2013)

Synthesis of cell free extract based Silver Nanoparticles from *Bacillus* Species and its antibiofilm effects on Pathogenic Strains , Paper presented in a International Conference on Recent Trends in Microbiology,(RTM-20<sup>th</sup> & 21<sup>st</sup> December -2017) Department of Microbiology, Alagappa University, Karaikudi

Synthesis of chitosan Nano particle using *Penaeus semisulcatus* shells and their growth impact on *sphaeranthus indicus* medicinal plant, Paper presented in an International Conference on Frontier Areas in Chemical Techno logies (Volume-11) July 6-8 -2017, Department of industrial Chemistry, Alagappa University, Karaikudi

Green synthesis of cerium oxide nanoparticles using *sphaeranthus indicus* leaf extract and their evaluation of toxic effects, Paper presented in an International Conference on Advanced Material

science and Technology (ICAMST)-2017, 17-19 August 2017, Department of Physics, Bannari Amman Institute of Technology, Sathyamangalam, Erode, Tamilnadu

Green synthesis of  $\gamma$ -Molybdenum oxide ( $\text{rmo4o11}$ ) nanoparticles using *Azadirachta indica* gum extract and their antibacterial activity, Paper presented in an International Conference on One day international Seminar on Materials Science and Technology, (ISMST-2017) August 4-2017 Department of Physics, Mother Teresa women University, Kodaikanal, Tamilnadu, India

Green synthesis of Cerium Oxide Nano particles using *Azadirachta indica* gum extract and their Anticancer activity of HeLa cell line, Paper presented in an International Conference on International Recent Trends in Applied Science and Technology (ICRAST-2017) 8-9 September 2017, Centre for Nano Science and Technology, Anna University, Chennai Tamilnadu, India

Green synthesis of Palladium Nano particles using *Sphaeranthus indicus* leaf extract and their antibacterial and larvicidal activities, Paper presented in a International Conference on Recent Advances in Applied Physics (ICRAAP-2017) (21<sup>ST</sup> -22<sup>nd</sup> September 2017) Annamalai university, Chidambaram. Tamilnadu, India.

Green synthesis of Silver Nanoparticles Using *Sphaeranthus indicus* leaf extract and their antibacterial activity, Paper presented in an International Conference on 3<sup>rd</sup> International Conference on Advancement in Engineering. Applied Science and Management (ICAEASM-2017) 20<sup>th</sup> August-2017, Academic Science at Centre for Development of Advanced Computing, JUHU, MUMBAI, Maharashtra, India

Electrical and Optical Properties of Copper Tartrate Crystal, Paper presented in an International Conference on 3<sup>rd</sup> International Conference on Recent Development in Engineering Science, Humanities and Management, 26<sup>th</sup> March 2017, National Institute of Technical Teachers Training & Research, Chandigarh, India

Green synthesis of silver Nanoparticles using *Pandanus amaryllifolius* leaf extract and their antibacterial activity, International Conference on Mechanistic insights into Electrochemical Processes, (KALAM YOUNG RESEARCHERS CONFERENCE (KYRC-01) October 16, 2017, CSIR-Central Electrochemical Research Institute, Karaikudi, Tamilnadu, India

Biosynthesis of silver Nanoparticles using *canscora pauciflora* aqueous extract and their impact on antimicrobial activity, Paper presented in an International Conference on RTM-2018, recent trends in Microbiology, Department of Microbiology, 11<sup>th</sup> and 12<sup>th</sup> Jan 2018, Alagappa university

Synthesis of silver Nanoparticle using phenol and their antibacterial activity, Paper presented in an international conference on Advanced Nano materials (ICAN-2018) Department of Nanoscience and Technology, February 26<sup>th</sup> and 27, 2018, Alagappa University



Development of functional antimicrobial papers using chitosan/Agar-silver Nanoparticles (cht:Agar-AgNps), Paper presented in a international conference on Advanced Nano materials (ICAN-2018) Department of Nanoscience and Technology, February 26<sup>th</sup> and 27, 2018, Alagappa University

Presented in paper entitled Extra cellular mycosynthesis of gold Nano particles using the chaetomium sp culture filtrate and their pollen germination activity. 3<sup>rd</sup> International Conference on Recent Trends in Microbiology (RTM-2019), 24<sup>th</sup> -25<sup>th</sup> January, 2019. Department of Microbiology, Alagappa University.

Presented in paper entitled Synthesis of silver Nano particles using phenol and their effect of antimicrobial activity. International Conference on “Advanced Nanomaterials for Energy, Environment and Healthcare Applications (ANEH-2019, 4<sup>th</sup> to 6<sup>th</sup> February 2019 , Department of Physics, Bishop Heber College, Tiruchirappalli.

Presented in paper entitled Synthesis of silver nanoparticles using phalaenopsis sp, orchid leaf extract and their effect of antibacterial activity. National conference on “Nano National Summit-Current Trends and Future Perspectives” (NNSCTFP-2019) 9<sup>th</sup> & 10<sup>th</sup> January 2019. Department of Chemistry, Holy Cross College Tiruchirappalli.

Presented in paper entitled Green synthesis of silver nanoparticles using Liliun Lancifolium leaf extract and their antibacterial, antibiofilm and larvicidal activities, International conference on Material science and technology (ICMAST) – 2018, 27<sup>th</sup> & 28<sup>th</sup> August, 2018, Department of Physics, Pachamuthu college of arts & science for women, Dharmapuri.

Presented in Paper entitled “Synthesis of palladium nanoparticles using the Liliun lancifolium leaf extract and their antimicrobial activity, International conference on Advanced Materials and their Applications (ICAMA-2018) 27<sup>th</sup> December 2018, held at Department of Chemistry, V.O.Chidambaram College, Tuticurin, Tamilnadu, India.

Presented in paper entitled “Synthesis of Gold Nanoparticles using the Phalaenopsis sp.leaf extract and their pollen germination activity, 4<sup>th</sup> International Conference on Chemical and Environmental Research (ICCER-2018) 19<sup>th</sup> December 2018. Organized by PG and Research Department of Chemistry, Jamal Mohamed College (Autonomous), Tiruchirapalli-620020, Tamilnadu, India

Presented in paper Synthesis of Zinc oxide-Starch Nanocomposite for food packing applications two days International Conference on Applied Nanoscience & Nanotechnology (ICANN- 2019), 18<sup>th</sup> & 19<sup>th</sup> March, 2019. Conducted by Department of Nanoscience and technology, Alagappa University, Karaikudi, Tamilnadu, India.

Presented in paper entitled “Fabrication of Antimicrobial papers using Chitosen-Agar-Silver Nano particle “International Conference on Innovative Scientific Research Strategies (ICISRS 2018) Innovative Scientific Research Professional Malaysia in Science, Engineering, Business Management Applications & Medical Technology, on 20-21 October 2018. Issued at Kuala Lumpur, Malaysia.

Presented in Paper entitled Synthesis of Titanium oxide Nanoparticles using Gloriosa superb Leaf Extract and their antimicrobial activity, International Conference on Nanomedicine (ICON-2019) 25<sup>th</sup> & 26<sup>th</sup> February, 2019, School of Chemistry & School of Biotechnology, Madurai Kamaraj University.

Presented in Paper entitled Development of functional antifungal papers using chitosan / agar-silver nanoparticles (Cht:Agar-AgNPs) , International Conference on Innovative and Emerging Trends in Botany-2019 (ICIETB-2019), 6-7 November 2019, Department of Botany, Alagappa University, Karaikudi

Presented in Paper entitled Fabrication of functional antimicrobial papers using chitosan:agar-silver Nanoparticles, International Conference on Recent Trends in Bioplastics, (RTB)-2019, December, 9<sup>th</sup> and 10<sup>th</sup> December-2019, Department of Microbiology, Alagappa University, Karaikudi.

Presented in Paper entitled-Single-step synthesis of copper oxide nanoparticles using Terminalia arjuna bark extract and their antibacterial application, International Conference on International Online Conference on Advanced Nano Materials (ICAN 2021), 14 &15 December-2021, Department of Basic Sciences, Amal Jyothi College of Engineering, Kanjirappally.

Presented in Paper entitled Facile synthesis of silver nanoparticles using Holoptelea Integrefolia bark extract and their antibacterial application, Virtual National Conference on Transforming Trends in Life Sciences & Health care in association with Indian Science Congress Association (Chennai Chapter) on November 17<sup>th</sup> and 18<sup>th</sup>, 2021, Department of Biotechnology, Dwaraka Doss Goverdhan Doss Vaishnav College (Autonomous), Chennai.

Presented in Paper entitled- Biological synthesis of gold nanoparticles using Prunus dulcis gum extract and their antibacterial application, International Conference on Recent Advances in Translational Medicine (ISRATM-2021), 26<sup>th</sup> November 2021, organized by the school of life sciences, Marudupandiyar College, Thanjavur.

Presented in Paper entitled- Green synthesis of silver nanoparticles using Prunus dulcis Gum for antibacterial application, International Conference on Recent Advances in Translational Medicine (ISRATM-2021), 26<sup>th</sup> November 2021, organized by the school of life sciences, Marudupandiyar College, Thanjavur.

Presented in Paper entitled- Green synthesis of cerium oxide nanoparticles using Prunus dulcis gum and their evaluated the antimicrobial application, International Virtual Conference on Applied Biology for Sustainable Development, 21<sup>st</sup> & 22<sup>nd</sup> March 2022, organised by PG Department of Zoology & Research Centre, Sri Parasakthi College For Women, Courtallam, Tamil Nadu.

Presented in Paper entitled- Single step synthesis of vanadium pentoxide nanomaterial using Prunus dulcis gum and their evaluated the antibacterial application, National conference on emerging trends in plant science for sustainable development, 30<sup>th</sup> March 2022, Organized by Department of Botany, School of Biological sciences, Bharathidasan University, Tiruchirappalli.

Presented in Paper entitled- Green synthesis of Tin Oxide Nanoparticles Using Prunus dulcis Gum: A Humidity Sensor and Antibacterial applications, International Conference on Phytomedicine

2022 (Phytocine'22), 20<sup>th</sup> & 21<sup>st</sup> of May 2022, organized by Centre for Molecular and Computational Biology, Department of Botany, St. Joseph's College (Autonomous) Bengaluru.

Presented in Paper entitled- Single step synthesis of vanadium pentoxide nanoparticles using Terminalia arjuna bark extract and their evaluated the antibacterial application, International Conference on “Sustainable Materials and Technologies for Bio and Energy Applications (SMTBEA-2022)”, 13-15, 2022, July, Department of ECE, SSN College of Engineering and SSN Research Centre (Department of Physics) Kalavakkam, Chennai.

Presented in Paper entitled- Facile Green synthesis of cerium oxide nanoparticles using justicia adhatoda for antimicrobial application, International Conference on Advanced Materials and Their applications 2022 (ICAMA'22) on 29<sup>th</sup> & 30<sup>th</sup> September 2022, Department of Chemistry, V.O. Chidambaram College, Thoothukudi, Tamilnadu, India.

Presented in Paper entitled- Biosynthesis of Cerium oxide nanoparticles using Wrightia Tinctoria leaf extract for antibacterial application, International Conference on “Novel Paradigms in Microbiology for Sustainable Future” Organised by the Department of Microbiology on 10 and 11 November 2022 The American College, Madurai, Tamil Nadu, India.

Presented in Paper entitled- One Pot Green synthesis of Almond gum Coated MgO Nanoparticles for Biomedical and Photocatalytic Dye degradation Applications, “International Conference on multidisciplinary research” Organised by Sharnbasva University on 22<sup>nd</sup> to 24<sup>th</sup> November 2022, Kalaburagi, Karnataka.

Presented in Paper entitled- Single step synthesis of Vanadium pentoxide nanoparticles nanoparticles using Lannea coromandelica leaf extract and their antimicrobial application, “International Conference on multidisciplinary research” Organised by Sharnbasva University on 22<sup>nd</sup> to 24<sup>th</sup> November 2022, Kalaburagi, Karnataka.

Presented in Paper entitled- Biosynthesis of cerium oxide nanoparticles using Indian ash tree leaf extract for antibacterial application “International Conference on Research trends, Strategies, and Technical advancements in biological and biomedical sciences for sustainability” Organised by Department of Zoology, Seethalakshmi Ramaswamy College on 14<sup>th</sup> and 15<sup>th</sup> December 2022 Tiruchirappalli.

Presented in Paper entitled- Facile Green synthesis of cerium oxide nanoparticles using Citrus Limetta foranti bacterial application International Conference on Advanced Nanomaterials for Energy and Environment Applications (ICANEE-2023), Organised by Department of Nanoscience and Technology on 09-11, Feb 2023, Alagappa University, Karaikudi.

Presented in Paper entitled- Synthesis, Characterization and Antibacterial activity of GO/ZnO Nanocomposites International Conference on Advanced Nanomaterials for Energy and Environment Applications (ICANEE-2023), Organised by Department of Nanoscience and Technology on 09-11, Feb 2023, Alagappa University, Karaikudi

Presented in Paper entitled- Hydrothermal synthesis of Carbon Quantum Dots using chitosan For Antibacterial application International Conference on Advanced Nanomaterials for Energy and Environment Applications (ICANEE-2023), Organised by Department of Nanoscience and Technology on 09-11, Feb 2023, Alagappa University, Karaikudi

Presented in Paper entitled- Hydrothermal Synthesis of CQDs/Mesoporous SiO<sub>2</sub> Nanocomposites for food packaging applications International Conference on Advanced Nanomaterials for Energy and Environment Applications (ICANEE-2023), Organised by Department of Nanoscience and Technology on 09-11, Feb 2023, Alagappa University, Karaikudi

Presented in Paper entitled- Synthesis of 2D copper oxide nanomaterial using co-precipitation method and their structural, optical, and antibacterial properties International Conference on Advanced Nanomaterials for Energy and Environment Applications (ICANEE-2023), Organised by Department of Nanoscience and Technology on 09-11, Feb 2023, Alagappa University, Karaikudi

Presented in Paper entitled- Hydrothermal synthesis of CQDs/mesoporous SiO<sub>2</sub> /Ag NPs International Conference on Advanced Nanomaterials for Energy and Environment Applications (ICANEE-2023), Organised by Department of Nanoscience and Technology on 09-11, Feb 2023, Alagappa University, Karaikudi

Presented in Paper entitled- Synthesis of Mg-doped copper oxide nanorod using co-precipitation method: their physicochemical and antimicrobial properties “International conference on “Frontier areas in chemical technologies-2022” (FACTs – 2022) Organised by the Department of Industrial Chemistry on 16 to 18<sup>th</sup> February 2023, Alagappa University, Karaikudi.

## Events Participated

### Conferences / Seminars / Workshops:

One day seminar on Applied Material Science and Microbiology, organized by PG & Research Department of Botany, Adhiyaman Arts & Science College for Women, utthangarai , krishnagiri. Held on 29<sup>th</sup> January 2019.

International Conference on Bio plastics (BIOP 2019) organized by the Department of Microbiology, Alagappa University, Karaikudi on 2<sup>nd</sup> April 2019.

One day “International Seminar on Biological Sciences” (ISBS-2019), organized by PG Department of Zoology and Department of Botany, Arulmigu Palaniandavar Arts College for Women, Palani on 4<sup>th</sup> February 2019.

International Conference on Cognitive, Psychological and behavioural Perspectives in Education (CPBPE-2019) held at 11<sup>TH</sup> and 12<sup>TH</sup> July-2019, Organized by College of Education, Alagappa University, Karaikudi

National Conference on Advanced Materials for Sustainable Energy and Sensors (NCAMSES-2019) Organized by the Department of Physics, Alagappa University, Karaikudi during 20<sup>th</sup> -22<sup>nd</sup> March 2019.

International Conference on Yoga for Harmony of Body and Mind (ICYHBM-2019), held on 24<sup>th</sup> and 25<sup>th</sup>, Organized by College of Physical Education, Alagappa University

National conference on Coral Reef: Threats and conservation (CRTC- 2019) organized by PG & Research Department of Zoology, American College on 12 February 2019.

National Conference on Trends in Microbiology (NCTM-2017) Department of Microbiology, Alagappa University, Karaikudi. (27<sup>th</sup> September-2017)

National Level Two day Faculty Development Programme on Transformation & Distribution in Teaching Learning Environment, Presented at the Dr. Umayal Ramanathan, College for Women, (10<sup>th</sup> and 11<sup>th</sup> march 2017)

National Conference on Titled “Recent Advances in Nanomaterials for Sensor Applications” (NANOSE-2014) Alagappa University, Karaikudi. (6-7 March 2014)

National Conference on Titled “Advances in Environmental Research: An Interdisciplinary Approach” (Aeria’11) Annamalai university, Annamalainagar. (11-12 March 2011)

National Conference on Titled “Bio prospecting of Marine Resources with special reference to marine Natural products and Drug Discovery Thondi campus, Alagappa University. (26-28, April 2007)

National Conference on Titled Exploring Commercialization of Biosensors in India” held at Department of Bioelectronics & Biosensors, Alagappa University. ( 14<sup>th</sup> March 2017)

National Conference on Titled PG & Research Department of Physics, (5<sup>th</sup>-6<sup>th</sup> September 2017) Government Arts College, (GRADE1) Tiruvannamalai, Tamilnadu ,India.

International conference on information Communication & Digital Security (ICICDS-2018) Department of Computer Applications, Alagappa University, March, 21<sup>st</sup> 22<sup>nd</sup> 2018.

Three – Day workshop on “Research Methods and LaTeX” from 24<sup>th</sup> to 26<sup>th</sup> June, 2019 at Alagappa University, Karaikudi.

1<sup>st</sup> Two – Day workshop on “Indigenous Cow Management & their Value Added Products” (ICMVAP-2018) held on 18<sup>th</sup> -19<sup>th</sup> December, 2018 Organized by the Department of Animal Health and Management, Alagappa University, Karaikudi, Tamilnadu. \*

One Day Workshop on “Design and Development of MOOCs for the Faculty Members of Alagappa University and Affiliated Colleges“ held on 8<sup>th</sup> November 2018, held on 8<sup>th</sup> November 2018, Alagappa University, Karaikudi.

International workshop on “Biomedical Applications in Translational Research (BATR-2019, Department of Biomedical Science & Health Care Centre, Alagappa University, Karaikudi and Semmelweis University, Budapest, Hungary during 6<sup>th</sup> & 7<sup>th</sup> June 2019.

One Day Workshop on Technical and Scholarly writing, Technical and Academic writing center Alagappa University, Karaikudi, 14<sup>th</sup> February, 2019.

Three- day International Workshop on E-Content Development for MOOCs among the Faculty Members, Organized by Digital Education Cell, Alagappa University, Karaikudi, 10<sup>th</sup>, 12<sup>th</sup> and 13<sup>th</sup>, September 2019 .

Two day Workshop on Basics of Forecasting and Demand Planning Organized by Department of Logistics Management, Alagappa University, 10<sup>th</sup> and 14<sup>th</sup> September , 2019.

International workshop on Biomedical Applications in Translational Research (BATR-2019, Department of Biomedical Science & Health Care Centre, Alagappa University, Karaikudi and Semmelweis University, Budapest, Hungary during 6<sup>th</sup> & 7<sup>th</sup> June 2019.

One Day Workshop on Technical and Scholarly writing Technical and Academic writing centre, Alagappa University, Karaikudi, 14<sup>th</sup> February, 2019.

### **Seminars/Workshops organized through Physical/Virtual by the College/Department during 2020-21**

1. Participated in the One week Faculty Development Programme on “Sustainable Energy Technologies (SET)” Organized by Department of Electrical and Electronics Engineering, University College of Engineering, BIT Campus, Anna University, Tiruchirappali in association with Institution of Engineers(India), Tiruchirapalli Local Centre from 28.07.2020 to 01.08.2020
2. Participated in the “Strategic Approach in Chemistry” Organized by the Directorate of Distance Education, Alagappa University, Karaikudi from 09-06-2020 to 12-06-2020
3. Participated in the Five Day Faculty Development Programme on “Insights into Marine Biodiversity and Taxonomy”, Organized by the Centre for Climate Change Studies, Sathyabama Institute of Science and Technology, Chennai from 10<sup>th</sup> to 14<sup>th</sup> Aug 2020
4. Participated in the One week Online Faculty Development Programme (FDP) on “Interdisciplinary Approaches on Chemical & Physical Sciences” (IACPS’20) held from 28<sup>th</sup> July 2020 to 01<sup>st</sup> August 2020 Organized by Department of Chemistry, University College of Engineering Anna University, Tiruchirappali, Tamilnadu
5. Participated in the Two-Week Online Capacity Building Programme for Faculty Members and Research Scholars organized by Alagappa University under the sponsorship of UGC STRIDE Component – 1 Scheme from 12<sup>th</sup> June 2020 to 23<sup>rd</sup> June 2020
6. Participated in the One Week National Level Faculty Development Programme on “NURTURING ENTREPRENEURSHIP – LAW & ICT PERSPECTIVES” Organized by the Department of Commerce (E-Commerce), Nallamuthu Gounder Mahalingam College, Pollachi, Tamilnadu from 16.05.2020 to 22.05.2020

7. Participated in the One Week online Faculty Development Program on “OUTCOME BASED EDUCATION: A STEP TOWARDS EXCELLENCE” from 11-15 May 2020 under Margdarshan Scheme of AICTE, New Delhi.
8. Participated in the Five days Online Faculty Development Program on “Digital Resources and Learning” Jointly Organized by the DLIS, Alagappa University, AALISAU and SALIS from 17<sup>th</sup> May 2020 to 21<sup>st</sup> May 2020
9. Participated in the Two days Faculty Development Program on “Intellectual Property Rights (IPR)” from 27<sup>th</sup> & 28<sup>th</sup> January, 2022, organized by Department of Physics, Sri G.V.G Visalakshi College for women, Udumalpet.
10. Participated in the virtual symposium on “Paradigm Shift in Higher Education under Covid-19 Pandemic: Experience and Challenges” from 5<sup>th</sup> July to 6<sup>th</sup> July 2020 Organized by Gulf University-Kingdom of Bahrain.
11. Participated in the International Webinar Series On “Mental Health and Wellness during Covid-19 Pandemic” jointly organized by Department of Special Education and Rehabilitation Science, Alagappa University & Department of Psychology, The American College, Madurai from 1<sup>st</sup> June 2020 to 7<sup>th</sup> June 2020.
12. Participated in the “International webinar on Biotechnology: Application Areas and Development Process” Organized by the Directorate of Distance Education- Biotechnology Wing, Alagappa University, Karaikudi from 31-05-2020 to 02-06-2020
13. Participated in the INTERNATIONAL LEVEL WEBINAR ON “THE SECRET OF INNER POWER” Conducted by PG & Research Department of Zoology, Government College for Women (Autonomous), Kumbakonam, Tamil Nadu, India on 19 & 20.07.2021
14. Participated in the International Webinar on ‘Research Avenues in Biochemistry’ organized by Department of Biochemistry, The American College, Madurai on 11 & 12 June 2020.
15. Participated in the International Webinar on “The Post Covid Era: Towards Blended Approaches” organized by the Department of English, G.Venkataswamy Naidu College, Kovilpatti in association with the English Language Teachers, Association of India, Thoothukudi Chapter on June 19, 2020
16. Participated in the Two days International Webinar on “Impact on Covid-19 on Human Resources in Higher Education” conducted by School of Management Studies, Gandhigram Rural Institute (Deemed to be University), Gandhigram during 24-25<sup>th</sup> June, 2020
17. Participated in the “International Webinar Series Beyond the COVID-19 Pandemic: Development and Challenges” Jointly organized by Social Work – Wing, Directorate of Distance Education, Alagappa

University and Department of Social Work, Central University of Tamil Nadu, Thiruvarur from 13<sup>th</sup> June to 17<sup>th</sup> June 2020.

18. Participated in the International webinar on Electrochemical Biosensor Webinar-Covid-19 detection held on June 16, 2020. Alagappa University, Karaikudi
19. Participated in the “ One Day International Webinar on Advances in Materials Science” Jointly organized by the Directorate of Distance Education and Department of Physics, Alagappa University, Karaikudi on 10<sup>th</sup> June 2020.
20. Participated in the Webinar on “Three Days International Virtual Seminar on the role of Nanotechnology against COVID-19” organized by the Department of Nanoscience and Technology, Alagappa University, Karaikudi from 20.05.2020 to 22.05.2020
21. Participated in International Virtual Conference on COVID-19 “Recent Updates and Current Advances” organised by The Department of Microbiology, The American College, Madurai, Tamil Nadu, India. On 3 and 4 June 2020.
22. Participated in the International webinar on “Sensors and Applications” organized during 22 – 23 July 2021 by the department of physics, Auxilium College (Autonomous), Vellore, Tamil Nadu, India.
23. Participated in the Two Days International webinar on “Research Evolution Towards Current Scenario” held on 13<sup>th</sup> & 14<sup>th</sup> July-2020 organized by the Department of Nanoscience and Technology, Alagappa University, Karaikudi.
24. Participated in the International Webinar on “Business Skills Development in Life Science” organized by the Department of Animal Health and Management, Alagappa University, Karaikudi on 27.05.2020
25. Participated in the National Webinar on Need And Importance of Physical Activity and Yoga during COVID-19 Pandemic conducted by the Department of Physical Education, Khadir Mohideen College, Adirampattinam on July 16, 2020
26. Participated in One Week Online Workshop on “Techno Pedagogy-2020” organized by Department of Education (SDE), Bharathiar University, Coimbatore and Jointly Organized Bharathiya Shikshan Mandal, Dhaksin Tamilnadu, from 24<sup>th</sup>-30<sup>th</sup> June-2020
27. Participated in the webinar sessions Titled “Ocean derived bioactive leads for cancer: A Potential arena to ponder” by Dr. Hannah R.Vasanthi & “The Western Ghats – a treasure of Indian biodiversity” by Dr. J. A. Johnson held as a part of National Level ZOOLOGY WEBINAR SERIES 2020 on 23.07.2020



28. Participated in the National Level Webinar entitled “STARTUPS TO UPLIFT INDIA” organized by the Department of Commerce, St. Xavier’s College (Autonomous), Palayamkottai, Tirunelveli on 30<sup>th</sup> June 2020
29. Participated in the One day National webinar on ‘Micro plastics –Identification, Quantification and its Impact on Marine Biodiversity’ organized by the Department of PG Zoology, Aditanar College of Arts and Science, Tiruchendur on 24.07.2020
30. Participated in the National Webinar on “New Dimensions of Management Education” Organized by Management Education Wing of Shiksha Sanskriti Utthan Nyas, on 15<sup>th</sup>, July, 2020
31. Participated in the National Level Webinar on “Web Design Tools and Techniques” conducted by the Department of Library, C. Kandaswami Naidu College for Men, Chennai-600 102, on 25<sup>th</sup> July 2020.
32. Participated in the National Level Webinar on “New Economic Challenges and Opportunities amidst Covid-19” conducted by the Internal Quality Assurance Cell (IQC), Periyar E. V. R College (Autonomous), Tiruchirappalli on 27<sup>th</sup> July 2020.
33. Participated in the National Level Webinar on “Transition to a New Normal and Dynamics of Work” conducted by the Post Graduate and Research Department of Commerce, C. B. M. College, Kovaipudur, Coimbatore - 641 042, Tamilnadu, India on 17/07/2020.
34. Participated in the Two Day National Level Online Programme on “Career Education – Decide your path during this Quarantine” Organized by Sri Vidhya College of Arts & Science on 3<sup>rd</sup> & 4<sup>th</sup> June 2020
35. Participated in the “RECENT APPROACHES AND HUMAN GENES AGAINST COVID 19” organized by the DDE, ZOOLOGY WING & DEPARTMENT OF ANIMAL HEALTH AND MANAGEMENT, Alagappa University, Karaikudi on 11 – 06- 2020.
36. Participated in the “Webinar Lecture Series on Recent Trends in Computer Science” organized by the Department of Computer Applications, Alagappa University, Karaikudi from 27-05-2020 to 01-06-2020.
37. Participated in the National Level Social Awareness Programme on “Yoga and Natural Way of Living” Organized by University College of Engineering, BIT Campus, Anna University, Tiruchirappalli in association with Rotaract Club of Anna University Tiruchirappalli on 02.08.2020.
38. Participated in the National webinar on “Getting Ready for Business in the Age of COVID-19” on 31<sup>st</sup> July, 2020 organized by Department of Management Studies, University College of Engineering, Anna University: B.I.T. Campus, Tiruchirappalli, Tamilnadu.

39. Participated in the National Level Webinar on “Psychological Conditions of Studies During and After the Pandemic” organized by the Department of English, G. Venkataswamy Naidu College, Kovilpatti, on 04 June 2020.
40. Participated in the “Nanomaterials Driven Biosensors (NANOSE)” organized by the Department of Bioelectronics and Biosensors, Alagappa University, Karaikudi from 10.06.2020 to 12.06.2020
41. Participated in the one week webinar lecture series held on 08-14, June, 2020 organized by the Department of Library and Information Science, Bharathidasan University, Tiruchirappalli-24 in association with Department of Library and Information Science, Holy Cross College, Tiruchirappalli-2 & Academic Library Association.
42. Participated in the “Effective Energy Management Practices of Farmers in COVID-19” Organized by the Department of Corporate Secretary ship, Alagappa University, Karaikudi on 03.06.2020.
43. Participated in the One Day National Webinar on “An Introduction to Coordinate Chemistry “organized by PG & Research Department of Chemistry, GOVERNMENT THIRUMAGAL MILLS COLLEGE, GUDIYATTAM, on 25.06.2020.
44. Participated in the Webinar conducted for JOVE (Journal of Visualized Experiments) organized by Balani Infotech Pvt. Ltd. On 4<sup>th</sup> June 2020.
45. Participated in the Webinar “Plant Based Biopolymers for Human Utilization” Organized by PG & Research Department of Botany, Adhiyaman Arts & Science for Women, Uthangarai on 17<sup>th</sup> June, 2020.
46. Participated in the National Level Webinar on “RECENT TRENDS IN DATA SCIENCE” organized by the Department of Statistics, G.Venkataswamy Naidu College, Kovilpatti on July 02, 2020
47. Participated in the National Webinar entitled Insights on A2 Milk and Career Prospects in Dairy Industry on June 24, 2020 organized by the Department of Nutrition & Dietetics and B.VoC. Food Processing.
48. Participated in the “National Webinar on Next Generation Technology for Sustainable Fisheries” organized by the Department of Fisheries Science & Department of Animal Health and Management, Alagappa University, Karaikudi on 21/11/2020.
49. Participated in the Online Webinar on “Rediscovering Strategies in Managing Transition and Upskilling Workforce” held on 6<sup>th</sup> July, 2020 conducted by Dr. T.Uma Devi, prof. & HOD-MBA, AMC College, Bangalore.
50. Participated in the Webinar on “OUTCOME BASED EDUCATION” Organized by the IQAC, Swarnandhra College of Engineering and Technology, Narsapur, Andhra Pradesh On 28-05-2020

51. Participated in the Webinar Series – Taxonomy : Morphology of Angiosperms, Recent Trends in Bioinformatics & Importance of Sacred Groves in Biodiversity Conservation” organized by the Department of Botany, Alagappa University, Karaikudi from 19.05.2020 to 21.05.2020
52. Participated in the Webinar on “Three Days International Virtual Seminar on “The Role of Nanotechnology Against COVID-19” Organized by the Department of Nanoscience and Technology , Alagappa University, Karaikudi from 20.05.2020 to 22.05.2020
53. Participated in the Webinar on “IMPACT OF COVID-19 ON INDIAN INDUSTRIES- FUTURE PROSPECTIVE” Organized by Shri Krishnaswamy College For Women held on 14<sup>th</sup> and 15<sup>th</sup> May,2020
54. Participated in the Employability Enhancement Webinar Series titled “Patent Professional – as a Career” organized by Bharathidasan University, Tiruchirappalli on May, 2020
55. Participated in the Webinar on “Pivotal Role of Banking in India’s COVID Fight” organized by EGS Pillai Arts & Science held on 29<sup>th</sup> May 2020
56. Participated in the “Awareness on Business Development Skills Design your Destiny” organized by the Department of biomedical Sciences, Alagappa University, Karaikudi on 26.05.2020.
57. Participated in the “Science Leadership Workshop” Organized by central university of Punjab, Bathinda, India on June 22 to June 28, 2020
58. Participated in the webinar “Patent Filing and Prosecution” by KPR Institute of Engineering and Technology, Coimbatore on 23<sup>rd</sup> May 2020
59. Participated in the Webinar on “Research in Physics and COVID-19” Organized by Idhaya College FOR Women, Sarugani on 14<sup>th</sup> May 2020
60. Participated in the One Day Webinar on ONLINE TEACHING TOOLS Organized by PG Department of Computer Science (Shift-2) on 30-05-2020
61. Participated in the Two days online workshop on “Chem Draw& Chem Sketch Software Learning” Organized by Department of Chemistry, SGT University, Gurugram, Delhi on 28<sup>th</sup> – 29<sup>th</sup> January, 2022.
62. Participated in the International webinar on “Sensors and Applications” on 22 – 23 July 2021 by the Department of physics, Auxilium College (Autonomous), Vellore, Tamil Nadu, India.

63. Participated in the “International webinar on Biotechnology: Application Areas and Development Process” on 19 & 20.07.2021 & PG & Research Department of Zoology, Government College for Women (Autonomous), Kumbakonam, Tamil Nadu, India.
64. Participated in the Webinar on Nanotechnology in Forestry Research on July 29, 2022 & Department of Nanoscience and Technology at Sri Ramakrishna Engineering College, Coimbatore.
65. Participated in the Webinar on “Educational Framework for Global Citizenship” on 27.06.2022 & UGC-Human Resource Development Centre Bharathidasan University, Tiruchirappalli.
66. Participated in the Webinar on “Academic & Research Integrity” on 29.06.2022 & UGC-Human Resource Development Centre, Bharathidasan University, Tiruchirappalli.
67. Participated in the Webinar on “National Skills Qualification Framework” on 30.06.2022 & UGC-Human Resource Development Centre, Bharathidasan University, Tiruchirappalli.
68. Participated in the Faculty Development Program on “Chemistry and Biology Interface for Scientific Transformations” on 25.07.2022 to 30.07.2022 & Mahatma Hansraj Faculty Development Centre, Hansraj College, University of Delhi.
69. Participated in the Faculty Development Program on “Intellectual Property Rights (IPR)” on 27.01.2022 and 28.01.2022. Under DBT Star College Scheme Organised by Department of Physics, Sri G.V.G Visalakshi College For Women, Udumalpet.

### **Other Training Programs**

Workshop on Molecular and Immunology Techniques attended at Life Tech Research center, vadapalani, Chennai. (25-28 December 2004)

Science of Living, Academy of Human excellence (DST) Training programme attended at Vadodara (GUJARAT) (9th-13<sup>th</sup> January 2017)

National level workshop on Gas Chromatography – Attended at Department of Microbiology, Alagappa University, Karaikudi. (15 December 2016)

National Workshop on Biosensors in Agricultural, Environmental and Medical Sciences attended at Department of Bioelectronics & Biosensors, Alagappa University (13 & 14 March 2017)

National workshop on “White LEDS for 21 Century Lighting System” – attended at Department of Chemistry, Thiagarajar college of Engineering, Madurai. (9th March 2017)

National World Standards Day (WSD), attended at Department of Nano Science & Technology, Alagappa University, Karaikudi (10<sup>th</sup> February 2017)

National workshop on Theory and Practice of X-RAY Diffraction Techniques, Alagappa chettiar College of Engineering and Technology, Karaikudi, Tamil Nadu, India (May 25<sup>th</sup> to 27<sup>th</sup>, 2017)

Two days Training Programme on Business Resource of Solid Waste Management through vermicomposting, 14<sup>th</sup>-15<sup>th</sup> March 2017, Department of Animal Health and Management, Alagappa University, Karaikudi.

Faculty Development (Enrichment) Programme Accreditation Quality Enhancement, 6<sup>th</sup>-12<sup>th</sup> January-2017 Alagappa University, Karaikudi, Tamilnadu, India

Two days National level Workshop & Short term Training programme on Micro Propagation and Business Commercialization of Indian Medicinal Plants (MDPBCIMP-2017) Department of Botany, Alagappa University, Karaikudi (30-31 January -2017)

A One week Short Term Training Programme on RESEARCH PUBLICATION AND ANTI-PLAGIARISM, Department of English and Foreign Languages & Centre for Technical and Academic Writing (9<sup>th</sup> to 15<sup>th</sup> October,2017) Alagappa University

Three Days School and Hands-on Training on Photovoltaics for Solar Energy Harvesting, CSIR-CENTRAL ELECTROCHEMICAL RESEARCH INSTITUTE, Karaikudi (September-18-20, 2017)

World Animal Day Celebration, Department of Animal Health & Management, Alagappa University, (4 October-2017)

Entrepreneurship Development and Innovation Institute, - An autonomous society of the Government of Tamilnadu, Faculty development Programme, PMO-IEDP, -13<sup>th</sup> 15<sup>th</sup> September, 2017, Alagappa University, Karaikudi

Two days National level Workshop on Computational science Techniques for Understanding & Solving Complex Real- World Problems, 4<sup>th</sup> and 5<sup>th</sup> January, 2018 Department of Computer Science, Alagappa University.

Two days Short term Training Programme on Hands on Training in Computer Networks and R Programming, 31<sup>st</sup> January and 1<sup>st</sup> February, 2018, Department of Computer Applications, Alagappa University, Karaikudi

Two days Business Oriented Hands-On Training on Analytical Instrumentation (HI-BOAT-2017), Organized by Department of Physics in collaboration with BCC&ICC, Alagappa University, (2<sup>nd</sup> and 3<sup>rd</sup>) march 2017

Two days' Workshop on Computational Science Techniques for Understanding & Solving Complex Real World Problems, Department of Computer Science, Alagappa University, Karaikudi (4<sup>th</sup> & 5<sup>th</sup>) January 2018.

Emergency Medicine sports injury management and Rehabilitation from 22-03-2018 to 5-04-2018 jointly organized by Apollo Reach Hospitals, Alagappa University, Health Care Centre and Alagappa University College of Physical Education

## Membership in

### Professional Bodies

Life Member: Member of the Indian Science Congress Association at Kolkata on 15/03/2016

Editorial Member in Global Management Council- Glacier Journal Research Foundation on 02/10/2017 at Ahmedabad, Gujarat

Member of the Association in Global Economic Progress and Research Association on 01/04/2018 to 30/03/2019 at New Delhi

Editorial Board Member in Innovative Scientific research Professional Malaysia on 20/10/2018 to 21/10/2018

Elected as FELLOW – The Membership Title FIESRP of the society of Innovative Educationalist & Scientific Research Professional ,Chennai on 20/10/2018 at Malaysia

Membership in Asia's Who's Who, Asian Biographies, Rifacimento International, New Delhi

External Examiner for Ph.D Pre -Thesis Evaluation at VIT Vellore

## Book Chapters

Handbook of Nanocelluloses: Advances of Nanocellulose in Biomedical Applications

## Recent Publications

New records of Pen Shells ( Bivalvia, Pinnidae) from seagrass beds of palk Bay area in Tamilnadu – **Seaweed Res.Utiln**,32(1&2):185-188,2010

New Distribution of *Siratus Virgineus ponderosus* (Sowerby, 1879) Family Muricidae, in Mandapam Coast, India ,**World Journal of Zoology** 6 (4):331-333,2011

Using Sem Studies on the Radular Morphology of *Chicoreus* Species (Gastropods:Muricidae) collected from Palk Bay in Tamilnadu-**Ecology and Fisheries**, Vol.4(2):73-78,2011

Four New Distributional Records of Bivalves species of *Pectinidae* family from Mandapam area – South-East Coast of India-**proc.ICBAT**,pp.17-20, 2011

Preliminary Photochemical screenings of Marine alga *Ulva Fasciata* and its growth performance , biochemical composition on Indian major carp *Cirrhinus mrigala* fingerlings, Journal of Advanced Applied Scientific Research – ISSN : 2454-3225, **JOAASR**-Vol-1-10-May -2017.

Green synthesis of gold nanoparticles using a cheap *Sphaeranthus indicus* extract: Impact on plant cells and the aquatic crustacean *Artemia nauplii*, **Journal of Photochemistry & Photobiology, B: Biology** 173(2017)598-605, June 2017, Impact Factor 6.252

Electrical and optical properties of copper tartrate crystal, International journal of **Advanced Research in science and engineering** Vol.No.6, Issue No.03, March-2017, ISSN(O)2319-8354, ISSN (P)2319-8346, Impact Factor 6.1

Green synthesis of Silver Nanoparticles Using *Sphaeranthus indicus* leaf extract and their antibacterial activity, **International Journal of Engineering and Technology Science and Research, IJETSR**, ISSN2394-3386 Volume 4, Issue 8, August 2017 I, Impact Factor 2.120

Single Step Fabrication of Chitosan Nanocrystals Using *Penaeus semisulcatus*: Potential as New Insecticides, Antimicrobials and Plant Growth Promoters, **Journal of Cluster Science** , Volume- 29, Issue 2, PP 375-384, [<https://doi.org/10.1007/s10876-018-1342-1>, Received: 15 December 2017 , Springer Science+Business Media, LLC, part of Springer Nature 2018, Impact Factor 3.061

**Journal of science and technology investigation** -ISSN: 2456-8082 V. Sabitha et.al JOSTI-Vol-1-9- April-2018: 1- 11 Checklist of Ants (Hymenoptera: Formicidae) of Silent Valley National Park, Western Ghats, Kerala, India,Impact factor 1.173

Development of chitosan/agar-silver nanoparticles-coated paper for antibacterial application, **Journal of Green Processing and Synthesis**, 1-January-2020, ISSN: 2191-9550, Volume- 9, Issue 1, PP 751-759, and Impact factor 2.83

Optimization of aqueous- assisted extraction of polysaccharides from pumpkin (*Cucurbita moschata Duch*) and their biological activities, **Saudi Journal of Biological Sciences**, 20-July-2021, ISSN: 1319562X, Impact Factor 4.219

*Gloriosa superba L*: A critical Review of Recent Advances, **Abasyn Journal of Life Sciences**, 2020, ISSN: 2616-9754, Volume 3, Issue 1, PP: 46-55, Impact factor 2.078

Superficial Preparation of Biocompatible Carbon Quantum Dots for Antimicrobial Applications, **Journal of Materials today Proceedings**, 2018, ISSN: 22147853, Impact Factor 1.24

Anti-cancer activity of *C. cainito* leaves explained using its compounds docked with p53, ISSN 0973-2063 (online) 0973-8894 , *Bioinformation* 18(10): 870-875 (2022) ©Biomedical Informatics (2022) Volume 18(10) October 31, 2022 DOI: 10.6026/97320630018870

Preparation of N, S-doped blue emission carbon dots for dual-mode glucose detection with live cell applications, *Chem. Pap.* (2023). <https://doi.org/10.1007/s11696-023-02769-5>