



**Dr. A. Arumugam**  
**Professor**

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### Academic Qualifications

Degree	Institution	Year	Branch	Class
Ph. D Awarded	University of Madras, CAS Botany Guindy Campus	2003	Plant Science	Highly commented
M. Sc.	University of Madras, CAS Botany Guindy Campus	1997	Plant Science	First class
B. Sc.	Govt. Periyar Arts college, Cuddalore	1995	Botany	First class

### Teaching Experience

Total Teaching Experience : **21** Years

<b>Position</b>	<b>Institution</b>	<b>Duration</b>
Professor	Department of Botany Alagappa University	2019-Till Date
Associate Professor	Department of Botany Alagappa University	2016-2019
Assistant Professor	Department of Nanoscience & Technology Alagappa University	2008-2015
Sr .Lecture	Vel Sri Ranga Sanku College, Affiliated to University of Madras	2003-2008

## Research Experience

Total Research Experience : 24 Years

<b>Position</b>	<b>Institution / University</b>	<b>Duration</b>
Professor	Department of Botany Alagappa University	2019-Till Date
Associate Professor & Head (i/c)	Department of Botany Alagappa University	2016-2019
Assistant Professor	Department of Nanoscience & Technology Alagappa University	2008-2015
Research Associate	Documentation Herbal Drug and Indian Medicinal plants , University of Madras	2002-2003
Senior Research fellowship	University Grants Commission (UGC)	2000-2002
Junior Research fellowship	University Grants Commission (UGC)	1998-2000

### Academic and Additional Responsibilities

S.No	Position	University Bodies	Period	
			From	To
1	Dpy- Coordinator- Waste Management	Alagappa University	2019	2023
2.	Green Campus Coordinator - Thondi	Alagappa University	2021	2022
3	Alagappar Alumni park Coordinator	Alagappa University	2016	Till date

### Areas of Research

Bio nanotechnology,- Bio-imaging ,Biosensors and Microbial Dye degradation, Phytochemistry, Pharmacogenecy, Biochemistry & Molecular biology, Plant Pathology.

### Research Supervision/Guidance

Program of Study		Completed	Ongoing
Research	PDF	-	-
	Ph.D	4	1
	M.Phil	30	-
Project	PG	39	7
	UG/ Others	-	-

## Publications

International		National		Others
Journals	Conferences	Journals	Conferences	Books/Chapters/Monographs/Manuals
43	48	3	32	6- Co-author

Cumulative Impact Factor (as per JCR) : 131.73

h-index : 21

i10 index : 28

Total I Citations :2271

## Publications

Thesis Evaluated : 6

Viva voce Examiner : 10

## Funded Research Projects

### Ongoing Projects:

S.No	Agency	Period		Project Title	Budget (Rs.In lakhs)
		From	To		
1.	TANSICHE	2021	2023	Developing zero waste management technology adapted to Karaikudi, Sivaganga District in Tamil Nadu	50.94

**Completed Projects:**

S.No	Agency	Period		ProjectTitle	Budget (Rs.In lakhs)
		From	To		
1	UGC	2010	2013	Micro propagation and germplasm conservation of endangered medicinal plants in Southern India	11.23
2	AURF	2010	2011	Development of Nanosensor for Bacterial pathogen detection	0.64
3	DST- PRIME MINISTER'S FELLOWSHIP SCHEME	2014	2018	Nanoparticles based bio degradation and power generation using textile waste water bacteria	24.00
4	AURF	2016	2017	Utilization of <i>pedalium murex</i> for biodiesel and Ag NPs production	1.5
5	MHRD - RUSA	2019	2021	Bio Synthesis and Phyto-Chemical Analytics for Cancer and other diseases.	4.74

**Distinctive Achievements / Awards**

S.No	Awards/Honors	Granting Institution	Year	Description
1	Academic Excellence Awards 2023 International Conference on Agricultural Science, Technology, Innovation and Entrepreneurship- 2023	The American College, Madurai, Tamil Nadu, India	February 18, 2023	Outstanding Professor Excellence Award , Life science – Botany
2	Prosper Foundation & Agri Amigos Private	The Indian Agriculture College	August 12	Distinguished Research Excellence Award, Life

	Limited Teaching & Research Excellence Awards 2023	Tirunelveli, Tamil Nadu India  (Affiliated to Tamil Nadu Agricultural University Coimbatore)	2023	science - Botany
3	Agri Amigos Private Limited & Prosper Foundation  Aigi & Food Tech Academia & Industry Leadership Awards 2024	Agri & Food Tech Startup Summit 2024  Agri & Food Tech Expo 2024	February 04  2024	Distinguished Professor Leadership Award  LIFE SCIENCE- BOTANY

### Events organized in leading roles

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

Position	Programme	Duration	Institution
Co-Convener	International Conference on “Innovative and Emerging Trends in Botany – 2019” [ICIETB-2019]	November 6 <sup>th</sup> - 7 <sup>th</sup> 2019	Department of Botany, Alagappa University
Convener & Organizing Secretary	Two days field visit	24 <sup>th</sup> – 25 <sup>th</sup> January 2019	Kalakkad Mundathurai
Organizing Secretary	Two days field visit	21 <sup>st</sup> & 22 <sup>nd</sup> February 2018	Yercaud and Koli hills
Convener	Four Days National Level		

	Workshop and Training Programme on Cultivation of Mushroom and Business commercialization	January 8 -11 <sup>th</sup> 2018	Department of Botany, Alagappa University
Organizing Secretary	Two days field visit	30 <sup>th</sup> & 31 <sup>st</sup> August 2017	Kodaikanal
Convener	One day seminar on Recent Developments in DNA Barcoding RET Species of Peninsular India	August 3 <sup>rd</sup> 2017	Department of Botany, Alagappa University
Convener & Organizing Secretary	Two days National Level Workshop & Short-Term Training Programme on Micropropagation and Business Commercialization of Indian medicinal Plants	January 30 - 31 <sup>st</sup> , 2017	Department of Botany, Alagappa University
Convener & Organizing Secretary	Frontier Areas in Chemical Technologies – 2016 (FACTS – 2016)	21-23 March 2016	Industrial Chemistry, Alagappa University, Karaikudi
Convener & Organizing Secretary	Industrial Visit	2016	Medicinal Plant collection, valparai
Convener & Organizing Secretary	Industrial Visit	August 7 -9 2015	TNPL, Karur
Convener & Organizing Secretary	International Conference on Advancement of Nanoscience & Technology	1-3 March 2010	Department of Nanoscience & technology, Alagappa University, Karaikudi
Convener & Organizing Secretary	National symposium on Importance of Nanoscience & Technology	14 -15 March 2009	Department of Nanoscience & technology, Alagappa University, Karaikudi
Convener & Organizing Secretary	National seminar on Importance of Nanoscience & Technology	22 -23 December 2008	Department of Nanoscience & technology, Alagappa University, Karaikudi

## Events Participated

Number of Conferences/Seminars/Workshops:

1. Seminars – 6
2. Workshops – 6
3. Conferences – 77

## Other Training Programs

**Academic Staff College Orientation /Refresher Course attended:**

Name of the Course/Summer School	Place	Duration	Sponsoring Agency
Hands-on Training on Cell Culture and Live Cell Imaging” sponsored by SERB-DST under the Accelerate Vigyan Scheme	Nanotechnology Lab, Dept. of Zoology, in association with SATHI, CDC, BHU, Varanasi.	July 14-20, 2022	SERB-DST
Orientation Programme Batch – 120	University of Madras	10.02.2015 to 09.03.2015	UGC - New Delhi
National Programme for Training	Baroda	12.10.2015 to 16.10.2015	DST - New Delhi
Faculty Development Programme in Entrepreneurship Development	Alagappa University	05.04.2011 to 19.04.2011	DST - New Delhi
UGC- Refresher course Academic staff college	University of Madras Chennai	11-11-2009 to 01-12-2009	UGC – New Delhi
UGC - Refresher Course in Bio-Technology, Batch – II	University of Madras	16.11.2007 to 06.12.2007	UGC – New Delhi
UGC Orientation Course (General) – Batch - LXXII	University of Madras	15-11-2005 to 12.12.2005	UGC – New Delhi

## Overseas Exposure/Visits

**Place:** Council for chemical, agricultural, Biological and Environment Science, University Putra Malaysia, Malaysia, Kuala Lumpur

**Purpose of Visit:** International conference on Tentative Budget to attend International Conference on Food Ecology, Waste Management, Cellular and Molecular Biology (FEWCMB – 2017)

**Duration:** November 20 – 21, 2017

## Membership

### Professional Bodies

1. Life membership in Indian Science congress, Kolkata
2. Life member Mycological society of India
3. Life Member of Indian physiopathology society.



### Advisory Board

Year/Period	Name of the BoS /Administrative Committee / Academic Committee	Role
2022	Research Centre inspection Committee	Expert member
2021	Inspection Squad, Examinations of Alagappa University affiliated Colleges	Member
2020	Distance Education Examinations, Alagappa University	University Representative
2019	Board of Valuation, M. Sc., and M. Phil. Botany, Alagappa University	Chairman
2019	Board of Studies, M. Sc., Botany, Alagappa University affiliated Colleges	Member,
2018	Board of Studies, M. Sc., Botany, Alagappa University affiliated Colleges	Member,
2017	Research Centre inspection Committee	Member,
2009	Board of Studies for M.Sc, and M. Phil Botany courses	Member,
2009	Board of Studies for M.Sc, Nanoscience courses	Member,

### Academic Bodies in Other Institutes/Universities

Year/Period	Name of the BoS/Administrative Committee / Academic Committee	Role
2023	Board of studies for Botany (PG), Thiruvallar University, Vellor	Member
2022	Question Setting Board, M. Sc., Botany, Annamalai University	Chairperson
2022	Chairperson of the Meeting of Board of Studies, Botany (UG&PG) TANSCH, Chennai	Chairperson
2019	Board of Studies for M.Sc., Life sciences, Tamil Nadu Teachers Education University, Chennai	Chairpersons

## Ph.D. Thesis Guided

1. No. of PhD Thesis evaluated : 8
2. No. of PhD Public Viva Voce Examination conducted : 12

S.No	Name of the Scholar	Title of the Thesis	Year of Completion
1	Dr.PR.Kaleeswarran	Synthesis and Characterization of Metal Oxide Nanomaterials for Sensing and Biological Applications	2024
2	Dr. S.Gowri	Studies on Mycosynthesis And Characterization of Metal Oxide Nanoparticles For Bio Imaging Application	2022
3	Dr. V.Karthika	Synthesis and Characterization of Nanocomposites For Drug Delivery Applications	2018
4	Dr.K.Gopinath	Green synthesis of nanomaterials by <i>Gloriosa superba</i> L. Micropropagation and their nanobiotechnological applications	2016

## Details of M.Phil. Awarded

S No	Name of the Scholar	Title of the Thesis	Name of the University	Month and Year
1.	Karthik.R	Studies on micropropagation and phytochemical screening of <i>spilanthes acmella</i>	Alagappa University	August 2018
2.	P.Amutha	Biosynthesis of Cerium Oxide Nanoparticles using Aqueous Fruit Extract Towards Biomedical Applications	Alagappa University	June 2018
3.	A.Anamalai	Preliminary Phytochemical Screening and In Vitro Antibacterial Activity of	Alagappa University	June 2018

		Zingiber Officinale Roseoe. Against Human Pathogens		
4.	B. Vijaya	Preliminary Phytochemical Screening and Evaluation of Antibacterial and Cytotoxicity Properties of <i>Tabernaemontana Divaricata</i> Flower Extract	Alagappa University	June 2018
5.	M. Durairpandi	Biofunctionalized Cadmium Oxide Nanoparticles Synthesis from <i>Terminalia Chebula</i> and its Preliminary Antimicrobial Activities	Alagappa University	June 2018
6.	M. Ganesan	Green and Eco-Friendly Synthesis of Cobalt Oxide Nanoparticle: Characterization And Biomedical Applications	Alagappa University	June 2018
7.	A.Gopalakrishnan	Green Synthesis and Characterization of Zinc Oxide Nanoparticles using <i>Aerva Lunata</i> Flower Extract	Alagappa University	June 2018
8.	D. Panjavarnam	Antimicrobial And Phytochemical Screening Of Rhizome Extract From <i>Albinia Galanga</i> (L)	Alagappa University	June 2018
9.	S. Vijaya	Preliminary Phytochemical Screening and in Vitro Antibacterial Activity of <i>Hemidesmus Indicus</i> (L.) against Human Pathogens	Alagappa University	June 2018
10.	C. Savithiri	Phytochemical Analysis and Assessment of <i>in Vitro</i> Antibacterial and Antifungal Activity of <i>Cassia Auriculata Linn</i>	Alagappa University	June 2018
11.	R.Shanmugavalli	Green Synthesis of Silver Nanoparticles with Antibacterial Activity using <i>Antignon Leptopus</i> Leaf Extract	Alagappa University	June 2018
12.	P. Srinivasan	Eco-Friendly Synthesis of Copper Oxide Nanoparticles for Biomedical Application	Alagappa University	June 2018
13.	R. Ayyalu	Eco friendly synthesis of zinc oxide nanoparticles for biomedical applications	Alagappa University	May 2017
14.	Y. Daisy Leema	Green synthesis and characterization of immobilized titanium dioxide nanoparticles by <i>Ocimum tenuiflorum</i> leaf extract for reactive dye degradation	Alagappa University	May 2017
15.	M.Ganesan	Phytosynthesis of silver nanoparticles using <i>Ipomoea asarifolia</i> (DESR) roem. And schult. Leaf extract and antibacterial studies: an Indian	Alagappa University	May 2017

		medicinal plant		
16.	G.Janakiraman	Plant mediated biosynthesis of CuO NPs for biomedical applications	Alagappa University	May 2017
17.	R. Jothi	Greener synthesis of sphere shaped copper oxide nanoparticles for antimicrobial and larvicidal activity.	Alagappa University	May 2017
18.	V.Muthu Vijaya	Biogenic Synthesis of Iron Oxide Nanoparticles And Their Evaluation of Biomedical Studies	Alagappa University	May 2017
19.	N. S. Sarojini suja	Biosynthesis of Cobalt Oxide Nanoparticles and their Evaluation of Antimicrobial, Antioxidant, Hemolytic and Cytotoxicity Studies	Alagappa University	May 2017
20.	K.Sudha	Biosynthesis and characterization of cerium oxide nanoparticles using <i>cadaba trifoliata</i> (roxb.) for antimicrobial and larvicidal activity	Alagappa University	May 2017
21.	S. P Gomathy	Synthesis and immobilization of silver nanoparticles by Citrus medica leaf extract and its application on antibacterial treatment of textile effluent	Alagappa University	May 2017
22.	V. Meenakshi	Synthesis and characterization of cobalt oxide/ rGO nanocomposite and their evaluation of in-vitro and in-vivo studies	Alagappa University	June 2016
23.	S.Keerthika	Green synthesis and, Characterization of TiO <sub>2</sub> , ZnO, CeO <sub>2</sub> , V <sub>2</sub> O <sub>5</sub> nanoparticles for antimicrobial and seed germination activity	Alagappa University	August 2015
24.	V.Karthika	Phytofabricated Silver,Gold and Silver/Gold Alloy Nanoparticles Using <i>Terminalia Chebula</i> Retz. Bark Extract for the photocatalytic activity and bio medical applications	Alagappa University	August 2014
25.	R.Dhilip Kumar	Synthesis and Characterization of Nanostructured Copper Tungstate (CuWo <sub>4</sub> for electrochemical applications)	Alagappa University	July 2013
26.	S.Radha	Studies on Toxicity effects of SWCNT nanoparticles in rat lungs and liver tissues	Alagappa University	July 2012
27.	S. Sujatha	Studies on Toxicity effects of MWCNT nanoparticles in rat heart and kidney tissues	Alagappa University	July 2012
28.	K.Venkateswaraen	Biodegradation of wastes by fungi	Periyar	SEP 2007

		from Dumped areas of Chennai City	University	
29.	C. Naga Sudarshan	Isolation and characterization of chitinous from <i>Solanum trilobatum</i>	Periyar University	SEP 2007
30.	B.Ramadevi	Isolation and optimization study of <i>Thiobacillus</i> sp	Periyar University	SEP 2007

### List of Research Articles / Recent Publications

S. No	Authors/Title of the paper/Journal	Impact Factor
1.	Gopinath, K., Gnanasekar, S., Al-Ghanim, K. A., Nicoletti, M., Govindarajan, M., <b>Arumugam, A.</b> , Balalakshmi, C., & Thanakkasaranee, S. (2023, September). Fabrication of Neodymium (Nd), Cadmium (Cd) and Nd:Cd doped hybrid copper oxide nanocomposites: Evaluation of their antibacterial activity and cytotoxicity against human L132 cell line. <i>Ceramics International</i> , ISSN: 0272-8842, 49(18), 29933–29947.	5.51
2.	Thanakkasaranee, S., Kasi, G., Kadiravan, S., <b>Arumugam, A.</b> , Al-Ghanim, K. A., Riaz, M. N., & Govindarajan, M. (2023, January 9). Synthesis of Tungsten Oxide Nanoflakes and Their Antibacterial and Photocatalytic Properties. <i>Fermentation</i> , ISSN: 2311-5637, 9(1), 54.	5.123
3.	Kaleeswarran, P., Nataraj, N., Chen, T. W., Chen, S. M., & <b>Arumugam, A.</b> (2022, May 1). Facile Hydrothermal Synthesis of Tin Doped Copper Bismuthate for the Real Time Electrochemical Determination of Chloramphenicol in Real Samples. <i>Journal of the Electrochemical Society</i> , ISSN 1945-7111, 169(5), 057506.	4.386
4.	Kaleeswarran, P., Koventhan, C., Chen, S. M., & <b>Arumugam, A.</b> (2022, June). Coherent design of indium doped copper bismuthate-encapsulated graphene nanocomposite for sensitive electrochemical detection of Rutin.	4.539

	Colloids and Surfaces A: Physicochemical and Engineering Aspects, <b>ISSN 1873-4359, 643, 128740.</b>	
5.	Kaleeswarran, P., Sakthi Priya, T., Chen, T. W., Chen, S. M., Kokulnathan, T., & <b>Arumugam, A.</b> (2022, August 8). Construction of a Copper Bismuthate/Graphene Nanocomposite for Electrochemical Detection of Catechol. <i>Langmuir</i> , <b>ISSN: 0743-7463, 38(33), 10162–10172.</b>	<b>4.331</b>
6.	PR. Kaleeswaran, B. Sriram, S.F. Wang, J.N. Baby, <b>A. Arumugam</b> , A.L. Bilgrami, S.A. Hashsham, F.A. Sayegh, C. Liu, Electrochemical detection of antipsychotic drug in water samples based on nano/sub-microrod-like CuBi <sub>2</sub> -xInxO <sub>4</sub> electrocatalysts, <i>Microchemical journal</i> , <b>2021, ISSN: 0026-265X, 163, 105886.</b>	<b>4.82</b>
7.	V. Karthika, M.S. AlSalhi, S. Devanesan, K. Gopinath, <b>A. Arumugam</b> , M. Govindarajan, Chitosan overlaid Fe <sub>3</sub> O <sub>4</sub> /rGO nanocomposite for targeted drug delivery, imaging, and biomedical applications, <i>Scientific Reports</i> , <b>2020, ISSN:2045-2322, 10, 1-17.</b>	<b>4.37</b>
8.	C. Balalakshmi, N.S. Alharbi, S. Kadaikunnan, J.M. Khaled, K.F. Alanzi, K. Gopinath, <b>A. Arumugam</b> , M. Govindarajan, Development of chitosan/agar-silver nanoparticles coated paper for antibacterial application, <i>Green processing and synthesis</i> , <b>2020, ISSN: 2191-9550, 9, 751-759.</b>	<b>2.83</b>
9.	M.A. Ansari, N. Alkubaisi, K. Gopinath, V. Karthika, <b>A. Arumugam</b> , M. Govindarajan, Facile and cost –effective ag nanoparticles fabricated by <i>Lilium lancifolium</i> leaf extract: Antibacterial and antibiofilm potential, <i>Journal of cluster science</i> , <b>2019, ISSN: 1572-8862,30, 1081-1089.</b>	<b>3.06</b>
10.	V. Karthika, P. Kaleeswarran.K. Gopinath, <b>A. Arumugam</b> , M. Govindarajan, N.S. Alharbie, J.M.Khaled, M. N. Al-anbr, G. Benelli,	<b>7.32</b>

	Biocompatible properties of nano-drug carriers using TiO <sub>2</sub> -Au embedded on multiwall carbon nanotubes for targeted drug delivery, <i>Materials Science and Engineering C</i> , <b>ISSN: 0928-4931,2018, 90, 589-601.</b>	
11.	S. Gowri. K. Gopinath, <b>A. Arumugam</b> , Experimental and computational assessment of mycosynthesized CdO nanoparticles towards biomedical applications, <i>Photochemistry and Photobiology: B</i> , <b>180, 2018, 166-174 ISSN: 1011-1344.</b>	6.25
12.	C. Balalakshmi, G. Rajkumar, V. Balamurugan, V. Krishnan, <b>A. Arumugam</b> , V. Sabitha, K. Gopinath, Preliminary phytochemical Screenings of Marine alga <i>Ulva fasciata</i> and its growth performance, biochemical composition on Indian major carp <i>Cirrhinus mrigala</i> fingerlings, <i>Journal of advanced applied scientific research</i> , <b>2017, ISSN: 2454-3225, 1.</b>	
13.	C. Balalakshmi, K. Gopinath, M. Govindarajan, R. Lokesh, <b>A. Arumugam</b> , N. S. Alharbi, S. Kadaikunnan, J.M. Khaled, G. Benelli, Green synthesis of gold nanoparticles using a cheap <i>Sphaeranthus indicus</i> extract: impact on plant cells and the aquatic crustacean <i>Artemia nauplii</i> , <i>Journal of Photochemistry and Photobiology B: Biology</i> , <b>2017, ISSN: 1011-1344. 173, 598 -605,</b>	6.25
14.	Kasi Gopinath, Natarajan Parimala Devi, Marimuthu Govindarajan, Kasi Bhakyaraj, Shanmugasundaram Kumaraguru, <b>Ayyakannu Arumugam</b> , Naiyf S. Alharbi, Shine Kadaikunnan, Giovanni Benelli. One-pot green synthesis of silver nanoparticles using the orchid leaf extracts of <i>Anoectochilus elatus</i> : growth inhibition activity on seven microbial pathogens" <i>Journal of Cluster Science</i> . <b>2017, ISSN: 1572-8862, 3, 1541 – 1550.</b>	3.06
15.	V. Karthika, <b>A. Arumugam</b> , K. Gopinath, P. Kaleeswaran, M.	

	Govindarajan, N. S. Alharb S. Kadaikunnan, J. M. Khaled, G. Benelli, Guazuma ulmifolia bark-synthesized Ag, Au and Ag/Au alloy nanoparticles: Photocatalytic potential, DNA/protein interactions, anticancer activity and toxicity against 14 species of microbial pathogens, <i>Journal of Photochemistry &amp; Photobiology, B: Biology</i> , <b>2017, 167, 189–199, ISSN: 1011-1344.</b>	<b>6.25</b>
<b>16.</b>	K. Gopinath, M. Govindarajan, M. Chinnadurai, N. Parimala Devi, K. Bhagyaraj, S. Kumaraguru, T. Baranisri, A. Sudha, M. Zeeshan, <b>A. Arumugam</b> , N.S. Alharbi, S. Kadaikunnan, G. Benelli. One-pot synthesis of dysprosium oxide nano-sheets: antimicrobial potential and cytotoxicity on A549 lung cancer cells. <i>Journal of Cluster Science</i> . <b>DOI:10.1007/s10876-016-1150-4. 2016, ISSN Number: 1572-886.</b>	<b>3.06</b>
<b>17.</b>	K. Bhagyaraj, S. Kumaraguru, K. Gopinath, V. Sabitha, PR. Kaleeswaran, V. Karthika, A. Sudha, U. Muthukumar, K. Jayakumar, S. Mohan, <b>A. Arumugam</b> , Eco-Friendly Synthesis of Palladium Nanoparticles Using <i>Melia azedarach</i> Leaf Extract and Their Evaluation for Antimicrobial and Larvicidal Activities, <i>Journal of cluster science</i> , <b>DOI 10.1007/s10876-016-1114-8. 2016, ISSN Number: 1572-8862.</b>	<b>3.06</b>
<b>18.</b>	K.S. Venkatesh, K. Gopinath, N.S. Palani, <b>A. Arumugam</b> , Sujin P. Jose, S. Asath Bahadur, R. Ilangovan, Plant pathogenic fungus <i>F. solani</i> mediated biosynthesis of Nanoceria: Antibacterial and antibiofilm activity, <i>RSC advances</i> , <b>2016, 6, 2016 42720–42729. ISSN Number: 2046-2069.</b>	<b>3.36</b>
<b>19.</b>	Kasi Gopinath, Shanmugasundaram Kumaraguru, Kasi Bhagyaraj, Subramanian Mohan, Kunga Sukumaran Venkatesh, Masanam Esakkirajan, Periyannan Kaleeswaran, Naiyf S. Alharbi, Shine Kadaikunnan, Marimuthu Govindarajan, Giovanni Benelli, <b>Ayyakannu Arumugam</b> , Green synthesis of silver, gold and silver/gold bimetallic nanoparticles using the <i>Gloriosa superba</i> leaf extract and their antibacterial and antibiofilm activities,	<b>3.73</b>



	<i>Microbial Pathogenesis</i> , <b>101</b> , <b>2016</b> , <b>1-11</b> . ISSN Number: <b>0882 – 4010</b> .	
<b>20.</b>	Viswanathan Karthika, <b>Ayyakannu Arumugam</b> , Synthesis and characterization of MWCNT/TiO <sub>2</sub> /Au NC for photocatalytic and antimicrobial activities. <i>IET nanobiotechnology</i> , DOI: <b>10.1049/iet-nbt.2016.0072</b> , <b>2016</b> , ISSN Number: <b>1751 – 8741</b> .	<b>1.84</b>
<b>21.</b>	K. Gopinath, S. Kumaraguru, K. Bhagyaraj, S. Thirumal, <b>A. Arumugam</b> . Eco friendly synthesis of Tio <sub>2</sub> Au and Pt doped Tio <sub>2</sub> nanoparticles for dye sensitized solar cell and evaluation of toxicity. <i>Superlattices and Microstructure</i> . <b>2016</b> , <b>92</b> , <b>100 -110</b> . ISSN Number: <b>0749-606</b> .	<b>2.65</b>
<b>22.</b>	M. Latha, M. Sumathi, R. Manikandan, <b>A. Arumugam</b> , N.M. Prabhu. Biocatalytic and antibacterial visualization of green synthesized silver nanoparticles using <i>Hemidesmus indicus</i> <i>Microbial pathogenesis</i> . <b>2015</b> , <b>82</b> , <b>43-49</b> , ISSN Number: <b>0882-4010</b> ,	<b>3.73</b>
<b>23.</b>	K. Gopinath, C. Karthikeyan, A.S.Haja Hameed, K. Arun Kumar, <b>A. Arumugam</b> . Phytochemical Synthesis and Crystallization of Sucrose from the Extract of <i>Gloriosa superba</i> . <i>Research Journal of Phytochemistry</i> . <b>2015</b> , <b>9</b> , <b>144-160</b> , ISSN Number: <b>2151-6081</b> .	
<b>24.</b>	K. Gopinath, V. Karthika, C. Sundaravadivelan, S. Gowri, <b>A. Arumugam</b> . Mycogenesis of cerium oxide nanoparticles using <i>Aspergillus niger</i> culture filtrate and their applications for antibacterial and larvicidal activities, <i>Journal of Nanostructure in Chemistry</i> , <b>5</b> , <b>2015</b> , <b>295-303</b> , ISSN Number: <b>2193-8865</b> .	<b>6.39</b>
<b>25.</b>	<b>A. Arumugam</b> , C. Karthikeyan, A.S.Haja Hameed, K.Gopinath, S.Gowri, V. Karthika. Synthesis of cerium oxide nanoparticles using <i>Gloriosa superba</i> L. Leaf extract and their structural, optical and antibacterial properties,	<b>7.32</b>

	<i>Materials Science and Engineering C</i> , <b>2015</b> , <b>49</b> , <b>408-415</b> , ISSN Number: <b>0928 – 4931</b> .	
26.	K. Gopinath, <b>A. Arumugam</b> . Extracellular Mycosynthesis of Gold Nanoparticles Using <i>Fusarium solani</i> . <i>Applied Nanoscience</i> , <b>2014</b> , <b>4</b> , <b>657-662</b> . ISSN Number: <b>2190-550</b> .	<b>3.06</b>
27.	K. Gopinath, V. Karthika, S. Gowri, <b>A. Arumugam</b> . In Vitro Morphogenetic Regeneration From Root Explant Of <i>Gloriosa superba</i> L. For The Enhanced Crop Production. <i>The Scitech Journal</i> , <b>2014</b> , <b>1</b> , <b>30-33</b> . ISSN Number: <b>2278 – 5329</b>	
28.	K. Gopinath, S. Gowri, V. Karthika, <b>A. Arumugam</b> . Green synthesis of gold nanoparticles from fruit extract of <i>Terminalia arjuna</i> , for the enhanced seed germination activity of <i>Gloriosa superba</i> . <i>Journal of Nanostructure in Chemistry</i> , <b>2014</b> , <b>4</b> , <b>115</b> , ISSN Number: <b>2193-8865</b>	<b>6.39</b>
29.	K. Gopinath, V. Karthika, S. Gowri, V. Senthilkumar, S. Kumaresan, <b>A. Arumugam</b> . Antibacterial activity of ruthenium nanoparticles synthesized using <i>Gloriosa superba</i> L. leaf extract. <i>Journal of Nanostructure in Chemistry</i> , <b>2014</b> , <b>4</b> , <b>83</b> , ISSN Number: <b>2193-8865</b>	<b>6.39</b>
30.	K. Gopinath, K. S. Venkatesh, R. Ilangovan, K. Sankaranarayanan, <b>A. Arumugam</b> . Green synthesis of Gold nanoparticles from leaf extract of <i>Terminalia arjuna</i> , for the enhanced mitotic cell division and pollen germination activity. <i>Industrial Crops and Products</i> , <b>2013</b> , <b>50</b> , <b>737-742</b> . ISSN Number: <b>0926 – 6690</b>	<b>5.64</b>
31.	K. Gopinath, C. Sundaravadelan, <b>A. Arumugam</b> . Green synthesis, characterization of silver, gold and bimetallic nanoparticles using bark extract of <i>Terminalia arjuna</i> and their larvicidal activity. <i>International Journal of Recent Scientific Research</i> , <b>2013</b> , <b>4</b> , <b>904-910</b> . ISSN Number: <b>0976- 3031</b>	

32.	K. Gopinath, S. Gowri, <b>A. Arumugam</b> . Phytosynthesis of silver nanoparticles using <i>Pterocarpus santalinus</i> leaf extract and their antibacterial properties, <i>Journal of Nanostructure in Chemistry</i> , <b>2013, 3, 68</b> . ISSN Number: <b>2193-8865</b>	<b>6.39</b>
33.	<b>A. Arumugam</b> , K. Gopinath. In vitro regeneration of an endangered medicinal plant of <i>Withania somnifera</i> using four different explants. <i>Plant Tissue Cult. &amp; Biotech</i> , <b>2013, 23, 79-85</b> , ISSN Number: <b>1818-8745</b>	
34.	K. Gopinath, V. Senthil kumar, <b>A. Arumugam</b> , S. Kumaresan. Antimicrobial activity of extracellular metabolite of endophytic fungi <i>Phomopsis</i> spp. isolated from four different medicinal plants of India. <i>Journal of Applied Biology and Pharmaceutical Technology</i> , <b>2013, 4, 40-46</b> , ISSN Number: <b>0976- 4550</b>	
35.	K. Gopinath, <b>A. Arumugam</b> . Effect of Temperature and pH on the <i>Gloriosa superba</i> L. pollen fertility. <i>Advanced Bio Tech</i> , <b>2012, 12, 15-18</b> . ISSN Number: <b>2319 -6750</b>	
36.	K. Gopinath, <b>A. Arumugam</b> . Micropropagation and in vitro micro rhizome initiation of <i>Gloriosa superba</i> L. (an endangered medicinal plant). <i>Asian Pacific Journal of Tropical Biomedicine</i> , <b>2012, 1, 1-6</b> , ISSN Number: <b>1995 – 7645</b>	
37.	<b>A. Arumugam</b> , K. Gopinath. In vitro Micropropagation using Corm Bud Explant: An Endanger Medicinal Plant of <i>Gloriosa superba</i> L. <i>Asian Journal of Biotechnology</i> , <b>2012, 4, 120-128</b> , ISSN Number: <b>1996- 0700</b> .	
38.	<b>A. Arumugam</b> , K. Gopinath, M. Muthukumaran, M. Jayaseelan, R. Abilas, M. Shaghul Hameet. Studies on Freshwater Algal Biodiversity from Kanchipuram Temple Ponds. <i>Advanced Bio Tech</i> , <b>2012, 11, 17-19</b> . ISSN Number: <b>2319 – 6750</b>	
39.	<b>A. Arumugam</b> , K. Gopinath. In-vitro Callus Development of Different Explants used for Different Medium of <i>Terminalia arjuna</i> . <i>Asian Journal of</i>	

	<i>Biotechnology</i> , <b>2011, 3, 564-572, ISSN Number: 1996- 0700</b>	
<b>40.</b>	<b>A. Arumugam</b> , K. Gopinath. Micro propagation and tissue culture of the endangered medicinal plant <i>Withania somnifera</i> by the direct shoot and root initiation method. <i>Journal of Applied Biology and Pharmaceutical Technology</i> , <b>2011, 2, 315-321. ISSN Number: 0976- 4550</b>	
<b>41.</b>	<b>A. Arumugam</b> , Gopinath. Differential In vitro Morphogenetic Response in Shoot Tip, Hypocotyl and Cotyledon Segments of <i>Phyllanthus amarus</i> L. <i>Advanced Bio Tech</i> , <b>2011, 11, 11-14, ISSN Number: 2319 – 6750</b>	
<b>42.</b>	S.P. Kamala Nalini, P. Saravanan, <b>A.Arumugam</b> , D. Lalithakumari. A novel bacterium for biocontrol and plasmid mediated antibiosis. <i>Asian journal of microbiol, biotech, Env, Sc</i> , <b>2008, 2, 301-308. ISSN Number: 0972 – 3005</b>	
<b>43.</b>	S.P. Kamala Nalini, P. Saravanan, <b>A.Arumugam</b> , D. Lalithakumari. Chemotaxis and colonization – A positive approach for effective biocontrol by <i>Pseudomonas chlororaphis</i> . <i>Asian journal of microbial Biotech. Env. Sc.</i> <b>2008, 2, 251-255. ISSN Number: 0972 – 3005</b>	

### Resource persons in various capacities

Plant Genome organization and structure,	08th November -14th November 2021	Avinashilingam Institute for Home Science and Higher Education
Lure of Nature and future Nanoscience and Technology	26.11.2021	Avinashilingam Institute for Home Science and Higher Education for Women is organizing a 7 Day Virtual FDP on "Future Perspectives in Biological Sciences"
External Examiner	21.12.2018	Government Arts College, Udhamandalam
External Examiner	25.05.2018	Sengamala Thayaar Educational Trust Women's College Mannargudi
Squad member	31.03.2018	AU constituent college of Arts and Science Paramakudi
External Examiner	15.02.2018	St. Joseph's college Tiruchirappalli
Squad member	07.11.2017	Alagappa University

External Examiner	22.09.2017	Sengamala Thayaar Educational Trust Women's College Mannargudi.
External Examiner	17.08.2017	St. Joseph's college Tiruchirappalli
Invited talk	06.09.2017	Sivagangai govt. school teacher training institute Kalayarkovil
Invited talk	19.08.2016	Seethalakshmi achi college for women Pallathur
External Expert	27.02.2016	Tamil Nadu Agricultural University
External Examiner	25.03.2015	Sengamala Thayaar Educational Trust Women's College
VPP	2015	Alagappa University
VPP	2013	Alagappa University
VPP	2012	Alagappa University
VPP	2011	Alagappa University
VPP	2010	Alagappa University
VPP	2009	Alagappa University
VPP	2008	Alagappa University

#### Details of Invited lectures/Presentations in Conferences/Seminars/Symposia, etc.

Name of the Programme	Organiser of the Programme	Level: International/National	Topic	Date
Invited lecture	PG and research, Department of chemistry	National	National seminar on Herbal drug development	22. 09. 2017
Invited lecture	Sivaganga District Teachers Education and Training Institute	National	Faculty Development Programme in Botany for School Teachers	21.09.2017
Invited lecture	Department of Oceanography and Coastal area Studies, Alagappa University	National	National Seminar on Current trends and Prospects of Nano marine science	11.08.2016
Invited Lecture	Alagappa University	National	DDE Botany	29-03-14 to 14-04-2014
Invited lecture	H.H the rajahs college	National	Nanotechnology	8-2-2013
Invited Lecture	Alagappa University	National	DDE Botany	04-03-2013 to 15-03-2013
Invited lecture	Dept of Animal Health & Management, Alagappa University	National	Nano Robots and their applications in Biomedical field	14-03-2013

Invited Lecture	Alagappa University	National	DDE Botany	04-03-2013 to 15-03-2013
Invited lecture	Dept of Animal Health & Management, Algappa University	National	Nano Robots and their applications in Biomedical field	14-03-2013
Resource Person	A.V.C Engineering college and DST	National	Biosensor application	16-03-2013
Resource Person	Rajah serfoji college	National	Nanoscale for biomedical application	29-8-2013 to 30-8-2013
Invited Lecture	Alagappa Botanical Club	National	Applications of Nanotechnology	21-09-2012
Invited lecture	K.S.R Tiruchengode	National	Biosensor application in heavy electronics	16-11-2012
Invited lecture	KK Institute of technology, Coimbatore	National	AICTE- Sustainable technology for green environment	07-06-2011
Invited lecture	Alagappa engineering college, Karaikudi	National	DNA based biosensor application in cancer diagnosis	15-04-2010
Invited lecture	Manomaniam Sundaranar University	National	National Conference (ENVIRON NANO - 2009) on Nanotechnology: Current Approaches and Applications	5 -6 February 2010
Invited lecture	Department of Biochemistry STET Women's College, Mannargidi	National	Bioinformatics and its Applications (2009)	11-12-2009

### Details of papers presented in Conferences/ Seminars etc.

Title of the Article	Author & Co-Author(s)	Name of the Programme	Organiser	Date
One-step Synthesis of Gold Nanoparticles Using <i>Lilium wallicianum</i> Schult & Schult f. Leaf Extract: Promising Application in Plant Development and Biocompatibility Assessment	Corresponding author & 1	5 <sup>th</sup> International Conference on Recent Trends In Microbiology (RTM)	Department of Microbiology, Alagappa University Karaikudi	26 <sup>th</sup> & 27 <sup>th</sup> , 2024
Recent Advancement and Conservation Actions Of Endangered Medicinal Plants <i>Gloriosa superba</i>	Corresponding author & 2	International Seminar on New Horizons in Plants Science 2023, Emergent and Innovative Technologies in Plants Science	Department of Botany University of Kerala, Kerala University Botany Alumni Association (KUBAA)	21-23 2023 March
Zero waste Current System and New Inavative Idea for Collection and Segregation Disposal of Waste (Poster)	Corresponding author & 2	International Conference on Agricultural Science, Technology, Innovation and Entrepreneurship-2023	The American College, Madurai, Tamil Nadu, India.	February 18, 2023
Development of Hierarchical Nanostructured CUBI2O4 for Electrochemical Determination of Catechol from the Environment	Corresponding author & 1	The Indian Science Congress Association	108 <sup>th</sup> Indian Science Congress held at Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur, Maharashtra	January 3to 7 2023
Green synthesis of cerium oxide Nanoparticles using <i>Pandenus amaryllifolius</i> leaf extract and their evaluated the biological application,	Corresponding author & 1	The International Conference on Phytomedicine 2022	St. Josephs college bangaluru	20 <sup>th</sup> and 21 <sup>st</sup> may 2022
Green Synthesis of Molybedenum Oxide nanomaterial Using	Corresponding author & 1	National conference on Emerging Trends	Organized by Department of Botany School of	30, March, 2022

Terminalla arjuna Bark Extract and their evaluated the Antibacterial application.		In Plant Science For Sustainable Development	Life Sciences Bharathidasan University, Tiruchirappalli	
Green synthesis of palladium nanoparticles using Zingiber zerumbet extract and their biological applications,	Corresponding author & 1	International online conference on Advanced nanomaterials (ICAN 2021) organized by	Center for Nanoscience and Technology & Department of Basic science of amal Jyothi college of Engineering and school of Energy Materials, Mahatma Gandhi University.	Dec 14 – 16, 2021
Green synthesis of Zinc Oxide nanoparticles from Maranta arundinacea rhizome extract and their evaluation of antioxidant and antibacterial activities,	Corresponding author & 2	International conference “Recent advances in Biosciences and Technology (RABT 2021)	Organized by Marian center for Advanced research, Research division of St.Mary’s college, Thrissur.	Dec 7, 2021
Biocompatible product nano drug carrier using Tio <sub>2</sub> Au embedded on multi wallwd caused nano tube for targeted drug delivery application	Corresponding author & 2	The Indian Science Congress Association	106 <sup>th</sup> Indian Science Congress held at Lovely Professional University Phagwara, Jalandhar.	January 3 to 7, 2019
Microwave Assisted Synthesis of Cobalt Oxide Nanoparticles for Antimicrobial Assay	Corresponding author & 3	International Conference On Applied Nanoscience & Nanotechnology	Department of Nanoscience & Technology	18& 19-03-2019
Biosynthesis of Molybdenum Oxide Nanoparticles and Their Evaluation of Antimicrobial, Hemolytic and Cytotoxicity Studies	Corresponding author & 2	International Conference On Applied Nanoscience & Nanotechnology	Department of Nanoscience & Technology	18& 19-03-2019
Fungal Mediated Biosynthesis and Characterization of Cerium Oxide	Corresponding author & 1	International Conference On Applied Nanoscience &	Department of Nanoscience & Technology	18& 19-03-2019



Nanoparticle Foe Biological Applications		Nanotechnology		
Synthesis, Characterization and Antimicrobial Activity of Nickel Oxide Nanoparticles (Nio-Nps) by Microwave Method.	Corresponding author & 1	International Conference On Applied Nanoscience & Nanotechnology	Department of Nanoscience Technology	18& 19-03-2019
Biosynthesis of Zinc Nitrate and Nickel Nanoparticles from Edible Mushroom Termitomyces Stratus -Its Biological Applications.	Corresponding author & 2	International Conference On Applied Nanoscience & Nanotechnology	Department of Nanoscience Technology	18& 19-03-2019
Studies on Synthesis and Characterization of Plant Mediated Silver Nanoparticles	Corresponding author & 2	International Conference On Applied Nanoscience & Nanotechnology	Department of Nanoscience Technology	18& 19-03-2019
Synthesis of Biogenic Copper and Magnesium Nanoparticles from Taxillus Heyneaus	Corresponding author & 2	International Conference On Applied Nanoscience & Nanotechnology	Department of Nanoscience Technology	18& 19-03-2019
Phytofabricated Synthesis of Tin Oxide Nanoparticles for Antimicrobial and Larvicidal Activity	Corresponding author & 2	Advanced Nanomaterials for Energy, Environment and Healthcare Applications	Department of Physics Heber College Tiruchy	04-06 Feb 2019
Fungus Mediated Synthesis of Molybdenum Oxide for Antimicrobial and Anticancer Activity	Corresponding author & 2	Advanced Nanomaterials for Energy, Environment and Healthcare Applications	Department of Physics Heber College Tiruchy	04-06 Feb 2019
Degradation of Reactive Dyes in Textile Effluent with immobilized Bacterial Isolates	First and Corresponding author	International Conference on Food, Ecology, Waste Management, Cellular and Molecular Biology	Council for chemical, agricultural biological and environmental Science, Malaysia	Nov 20-21, 2017

Antibacterial treatment of Textile Effluent by Immobilized MgO NPs in a Column Reactor	Corresponding author & 1	International Conference on Frontier Areas in Chemical Technologies-2017 (FACTs-2017) July 6 -8	Departemnt of Industrial chemistry, Alagappa University, Karaikudi – 630 003	July 6 -8
Synthesis and characterization of TiO <sub>2</sub> Nanoparticles by Nigrosporaoryzae for biomedical applications	Corresponding author & 1	International Conference on Frontier Areas in Chemical Technologies-2017 (FACTs-2017) July 6 -8	Departemnt of Industrial chemistry, Alagappa University, Karaikudi – 630 003	July 6 -8
One-step hydrothermal synthesis of iron oxide nanoparticles for photocatalytic and antimicrobial applications	Corresponding author & 1	International Conference on Frontier Areas in Chemical Technologies-2017 (FACTs-2017) July 6 -8	Departemnt of Industrial chemistry, Alagappa University, Karaikudi – 630 003	July 6 -8
Biosynthesis of Cobalt Oxide Nanoparticles and their Evaluation of Antimicrobial, Hemolytic and cytotoxicity studies	Corresponding author & 1	International Conference on Frontier Areas in Chemical Technologies-2017 (FACTs-2017) July 6 -8	Departemnt of Industrial chemistry, Alagappa University, Karaikudi – 630 003	July 6 -8
Antibacterial treatment of Textile Effluent by Immobilized CuO NPs in a Column Reactor	Corresponding author & 1	Two days international conference on Renewable energy science and Technology (ICREST - 2017) March 10 – 11	Department of Energy Science, Alagappa University, Karaikudi	March 10 – 11, 2017
Facile fabrication of Iron oxide/Graphene oxide Nanocomposite; As a multifunctional application for	Corresponding author & 1	Two days international conference on Renewable energy science and Technology	Department of Energy Science, Alagappa University, Karaikudi	March 10 – 11, 2017

biomedical field		(ICREST - 2017) March 10 – 11		
Synthesis and characterization of TiO <sub>2</sub> NPs from fungal extract for biomedical applications	Corresponding author & 1	International conference on Advances in Biotechnology in Biotherapeutics (ICABBS - 2017)	Sathiyabama University, Chennai	8 -10 March, 2017
Treatment of textile dye effluent using mixed systems of immobilized bacteria, nanoparticles and activated carbon.	Corresponding author & 1	International Conference in Recent Trends in Microbiology (RTM - 2016)	Department of Microbiology, Alagappa University, Karaikudi	7 – 8, December 2016
Synthesis and characterization of Cadmium oxide nanoparticles using <i>Nigrosporaoryzae</i> for biomedical applications	Corresponding author & 1	International Conference in Recent Trends in Microbiology (RTM - 2016)	Department of Microbiology, Alagappa University, Karaikudi	7 – 8, December 2016
Biogenic synthesis and characterization of Ag, Au and Ag/Au alloy nanoparticles using <i>Guazumaulmifolia</i> L. and their evaluation of biomedical applications.	Corresponding author & 1	International Conference in Recent Trends in Microbiology (RTM - 2016)	Department of Microbiology, Alagappa University, Karaikudi	7 – 8, December 2016
Biosynthesis of CuO nanoparticles for antimicrobial activity	Corresponding author & 1	International Conference in Recent Trends in Microbiology (RTM - 2016)	Department of Microbiology, Alagappa University, Karaikudi	7 – 8, December 2016
Fungus mediated synthesis and characterization of CdO NPs using <i>Nigrospora oryzae</i>	Corresponding author & 1	International Conference in Recent advances in modern medicine: molecular signaling scenarios in tissues and diseases (RAMM - 2016),	Sree Balaji medical college and hospital, Chennai	3 – 4 september 2016
Biogenic synthesis and characterization	Corresponding author & 1	International Conference in	Sree Balaji medical college and hospital,	3 – 4 september

of Ag, Au, and Ag/Au alloy nanoparticles <i>Guazuma ulmifolia</i> L. and their Evaluation of Biomedical applications		Recent advances in modern medicine: molecular signaling scenarios in tissues and diseases (RAMM - 2016),	Chennai	2016
Phytosynthesis of WO <sub>3</sub> for photocatalytic applications	Corresponding author & 1	National Conference on Materials Science and Technology (NCMST - 2016)	Indian Institute of Space Science and Technology, Thiruvananthapuram , Kerala	12 – 14 July, 2016
Complete Treatment of Dye Effluent with immobilized bacteria, Nanoparticles and activated carbon	Corresponding author & 1	International Conference Recent Trends in Biosciences (ICRTB) -2016	Department of Biotechnology, Alagappa University, Karaikudi	March 7 – 9 2016
Prolific synthesis of transition metal doped TiO <sub>2</sub> (TM= Au, Pt), nanoparicles and its photocatalytic activity	Corresponding author & 1	Frontier Areas in Chemical Technologies – 2016 (FACTS – 2016	Department of Industrial Chemistry , Alagappa University, Karaikudi	March 21- 23 2016
Eco friendly synthesis of Dysprosium oxide nanoparticles and its evaluation of toxicity	Corresponding author & 1	Frontier Areas in Chemical Technologies – 2016 (FACTS – 2016	Department of Industrial Chemistry , Alagappa University, Karaikudi	March 21- 23 2016
Hydrothermal synthesis of cobalt oxide nanoparticles ; an evaluation of biological activities	Corresponding author & 1	Frontier Areas in Chemical Technologies – 2015 (FACTS – 2016	Department of Industrial Chemistry , Alagappa University, Karaikudi	March 21- 23 2016
One – pot hydrothermal synthesis of Fe <sub>3</sub> O <sub>4</sub> /RGO nanocomposites as coupling agents for biomedical applications	Corresponding author & 1	Frontier Areas in Chemical Technologies – 2016 (FACTS – 2016	Department of Industrial Chemistry , Alagappa University, Karaikudi	March 21- 23 2016
Biosynthesis and characterization of cerium oxide nanoparticles using <i>Nigrospora</i> sp	Corresponding author & 1	Frontier Areas in Chemical Technologies – 2016 (FACTS – 2016	Department of Industrial Chemistry , Alagappa University, Karaikudi	March 21- 23 2016

Mycosynthesized Pd nanoparticles using <i>Nigrospora oryzae</i> for biomedical applications	Corresponding author & 1	Frontier Areas in Chemical Technologies – 2016 (FACTS – 2016)	Department of Industrial Chemistry , Alagappa University, Karaikudi	March 21- 23 2016
Synthesis and characterization of nanometal oxides on removed of heavy metals in textile waste water	Corresponding author & 1	Frontier Areas in Chemical Technologies – 2016 (FACTS – 2016)	Department of Industrial Chemistry , Alagappa University, Karaikudi	March 21- 23 2016
Green Synthesis of Silver and impregnation on surgical mask & surgical thread for antimicrobial activity	Corresponding author & 1	Frontier Areas in Chemical Technologies – 2016 (FACTS – 2016)	Department of Industrial Chemistry , Alagappa University, Karaikudi	March 21- 23 2016
Application of magnesium oxide nanoparticles in cotton fabric as an antibacterial textile finish	Corresponding author & 1	Frontier Areas in Chemical Technologies – 2016 (FACTS – 2016)	Department of Industrial Chemistry , Alagappa University, Karaikudi	March 21- 23 2016
Facile hydrothermal synthesis of iron oxide nanoparticles and their biomedical applications	Corresponding author & 1	Frontier Areas in Chemical Technologies – 2016 (FACTS – 2016)	Department of Industrial Chemistry , Alagappa University, Karaikudi	March 21- 23 2016
Mycosynthesis of Titanium Oxide Nanoparticles using <i>Nigrospora oryzae</i>	Corresponding author & 1	National Conference on Challenges and Opportunities in Mycological Research	Centre for Advanced Studies in Botany, University of Madras	February 11 – 12, 2016
Facile synthesis of $\text{CaSnO}_3$ for enhanced photocatalytic activity	Corresponding author & 1	International conference on Recent Advances in Materials and Chemical Sciences	Department of Chemistry Gandhigram Rural Institute- Deemed University	December, 14–15 2015
Synthesis and characterization of MWCNT/ $\text{TiO}_2$ /Au nanocomposite for photocatalytic activity	Corresponding author & 1	International conference on Nanomaterials and Nanotechnology (NANO- 2015)	K.S.Rangasamy College of Technology, Tiruchengode, India	December 7 – 10 2015
Microwave irradiated orthorhombic $\text{CaSnO}_3$	Corresponding author & 1	International conference on	Department of Physics,	

for antimicrobial and Photocatalytic activity		Recent Advancements in Materials (ICRAM-15)	Bharathidasan Institute of Technology Anna University, Tiruchirappalli	
Green synthesis, characterization and antimicrobial activities of Au/TiO <sub>2</sub> Nanoparticles using <i>Terminalia arjuna</i> bark extract	Corresponding author & 1	Frontier Areas in Chemical Technologies – 2015 (FACTS – 2015)	Department of Industrial Chemistry , Alagappa University, Karaikudi	March 6 & 7 2015
Phytosynthesis and Characterization of ZnO Nanoparticles using <i>Terminalia arjuna</i> bark extract	Corresponding author & 1	Frontier Areas in Chemical Technologies – 2015 (FACTS – 2015)	Department of Industrial Chemistry , Alagappa University, Karaikudi	March 6 & 7 2015
Green synthesis of Cerium Oxide Nanoparticles using <i>Sesbaniagrandiflora</i> L. And their antibacterial properties	Corresponding author & 1	Frontier Areas in Chemical Technologies – 2015 (FACTS – 2015)	Department of Industrial Chemistry , Alagappa University, Karaikudi	March 6 & 7 2015
Green Synthesis of Ag, Au and Ag/Au Alloy Nanoparticles Using <i>Terminalia chebula</i> Retz. Bark Extract; Biomedical Applications and Photocatalytic Activity	Corresponding author & 1	Frontier Areas in Chemical Technologies – 2015 (FACTS – 2015)	Department of Industrial Chemistry , Alagappa University, Karaikudi	March 6 & 7 2015
Laboratory Scale Biodegradation of the Textile Waste Water with Effective Microbes (EM) Technology and Nanotechnology	Corresponding author & 1	Frontier Areas in Chemical Technologies – 2015 (FACTS – 2015)	Department of Industrial Chemistry , Alagappa University, Karaikudi	March 6 & 7 2015
Mycosynthesis and characterization of silver nanoparticles using <i>Curuvlaria lunata</i>	Corresponding author & 1	Recent advances in algology, mycology and plant pathology (NCRAAMPP-2014)	Center for advanced studies in botany, University of Madaras, Chennai-India	February 19-20, 2014
Extracellular biosynthesis and characterization of	Corresponding author & 1	Recent advances in algology, mycology and	Center for advanced studies in botany, University of	February 19-20, 2014

gold nanoparticles using <i>Collectotrichum</i> sp		plant pathology (NCRAAMPP-2014)	Madaras, Chennai-India	
Mycosynthesis and characterization of cerium oxide nanoparticles using <i>Aspergillus niger</i> and their biomedical applications	Corresponding author & 1	Recent advances in algology, mycology and plant pathology (NCRAAMPP-2014)	Center for advanced studies in botany, University of Madaras, Chennai-India	February 19-20, 2014
Mycosynthesis& Characterization of cerium Oxide Nanoparticles Using <i>Nigrospora oryzae</i> and their Antibacterial Properties	Corresponding author & 1	Recent advances in algology, mycology and plant pathology (NCRAAMPP-2014)	Center for advanced studies in botany, University of Madaras, Chennai-India	February 19-20, 2014
Green synthesis, characterization of Ag, Au, Ag/Au NPs using bark extract of <i>Pterocarpus santalinus</i> and their potential application for antibacterial activity	Corresponding author & 1	Recent Trends in Aquatic Animal Biotechnology	Department of Animal Health and Management, Alagappa University, Karaikudi	October 21-22, 2013
Green synthesis of gold nanoparticles using <i>Terminalia chebula</i> leaf extract and antibacterial properties	Corresponding author & 1	Recent Trends in Aquatic Animal Biotechnology	Department of Animal Health and Management, Alagappa University, Karaikudi	October 21-22, 2013
Phytosynthesis of Cerium oxide nanoparticles using <i>Terminalia arujuna</i> bark extract and their antibacterial properties	Corresponding author & 1	Recent Trends in Aquatic Animal Biotechnology	Department of Animal Health and Management, Alagappa University, Karaikudi	October 21-22, 2013
Phytosynthesis of ruthenium nanoparticles using <i>pterocarpus santalinus</i> bark extract and their antibacterial properties	Corresponding author & 1	Recent Trends in Aquatic Animal Biotechnology	Department of Animal Health and Management, Alagappa University, Karaikudi	October 21-22, 2013
Biosynthesis and	Corresponding	Advances in	Department of	(AMBIEN

Characterization of Cerium Oxide Nanoparticle Using Fungi <i>Aspergillus niger</i>	author	modern biology and environment (AMBIEN-2013)	Zoology, H.H The Rajah's Govt. college. Pudukkotai	-2013)
Recent development and advances in cancer bio-nanotechnology and Nano-biosensors for cancer diagnosis	Corresponding author	Advances in modern biology and environment (AMBIEN-2013)	Department of Zoology, H.H The Rajah's Govt. college. Pudukkotai	(AMBIEN -2013)
Isolation, Characterization of a plant lectin from <i>Pelargonium peltatum</i>	Corresponding author	Advances in modern biology and environment (AMBIEN-2013)	Department of Zoology, H.H The Rajah's Govt. college. Pudukkotai	(AMBIEN -2013)
In vitro regeneration of <i>Gloriosa superba</i> L. derived from root explants	Corresponding author	Advances in modern biology and environment (AMBIEN-2013)	Department of Zoology, H.H The Rajah's Govt. college. Pudukkotai	(AMBIEN -2013)
Green synthesis of silver nanoparticles using <i>Pterocarpus santalinus</i> L. Leaf extract	Corresponding author	Advances in modern biology and environment (AMBIEN-2013)	Department of Zoology, H.H The Rajah's Govt. college. Pudukkotai	(AMBIEN -2013)
Extracellular mycosynthesis of gold nanoparticles using <i>Nigrospora oryzae</i> "	Corresponding author	Advances in modern biology and environment (AMBIEN-2013)	Department of Zoology, H.H The Rajah's Govt. college. Pudukkotai	(AMBIEN -2013)
Synthesis, Structural and Optical and Cell Toxicity Studies on Hela and Hep2 Cells by Graphene Oxide Nanoparticles	Corresponding author	Recent Advances in Textile and Electrochemical Sciences (RATES-2013)	Department of Industrial Chemistry. Alagappa University. Karaikudi	March 22-23 2013
Synthesis and Characterization of Cds and CdZns Nanoparticles by Co-Precipitation Method and their Larvicidal Activity	Corresponding author	Recent Advances in Textile and Electrochemical Sciences (RATES-2013)	Department of Industrial Chemistry. Alagappa University. Karaikudi	March 22-23 2013
Green synthesis of Silver Nanoparticles using <i>Terminalia arjuna</i> Bark Extract	Corresponding author	Recent Advances in Textile and Electrochemical Sciences (RATES-2013)	Department of Industrial Chemistry. Alagappa University. Karaikudi	March 22-23 2013
Green Synthesis of	Corresponding	Recent Advances	Department of	March 22-



Gold Nanoparticles using <i>Terminalia arjuna</i> Bark Extract	author	in Textile and Electrochemical Sciences (RATES-2013)	Industrial Chemistry. Alagappa University. Karaikudi	23 2013
Extracellular Biosynthesis of Gold Nanoparticles using Fungi <i>Phomopsis</i> Sp.	Corresponding author	Recent Advances in Textile and Electrochemical Sciences (RATES-2013)	Department of Industrial Chemistry. Alagappa University. Karaikudi	March 22-23 2013
Biosynthesis and Characterization of Cerium Oxide Nanoparticle Using Fungi <i>Fusarium solani</i>	Corresponding author	Recent Advances in Textile and Electrochemical Sciences (RATES-2013)	Department of Industrial Chemistry. Alagappa University. Karaikudi	March 22-23 2013
Recent development and advances in cancer nanotechnology and nano-biosensors for cancer treatment	Corresponding author	National Conference on Recent Advancements in Nanomaterials for Sensor	Department of Bioelectronics and biosensor	March 8 to 9 2012
Microbial synthesis of gold nanoparticles formation in the presence of <i>Fusarium</i> sp cell extract	Corresponding author	National Conference on Recent Advancements in Nanomaterials for Sensor	Department of Bioelectronics and biosensor	March 8 to 9 2012
Microbial Biosynthesis of Gold Nanoparticles Using Extra Cellular Compounds	Corresponding author	National Conference on Recent Advancements in Nanomaterials for Sensor	Department of Bioelectronics and biosensor	March 8 to 9 2012
Studies on BSA-Chitosan formation of self – assembled nanoparticles on drug delivery application	Corresponding author	National Conference on Recent Advancements in Nanomaterials for Sensor	Department of Bioelectronics and biosensor	March 8 to 9 2012
Self assembled polymeric Silk Sericin Nanoparticles as Nanocancer carrier of Hydrophobic and Hydrophilic Drugs for Depolymerization on B-tubulin in Chromosome	Corresponding author	Second National Conference on Multifunctional Nanomaterials and Nanocomposites	Department of Nanoscience and Technology, Bharathiyar University, Coimbatore. (2011)	March 24 to 25 2011

segregation in plant cell				
National conference on Advances in Nanotechnology and Biosensor (NCNB-2011)	Corresponding author	(NCNB-2011)	Department of Biosensor and Bioelectronics	March 3 to 4 2011
Self-assembled silk sericin / poloxamer nanoparticles as nanocarrier of hydrophobic and hydrophilic drugs for depolymerization B-tubuline in chromosome Segregation	Corresponding author	International Conference on Advancement of Nanoscience and Nanotechnology	Department of Nanoscience and Technology. Alagappa University. Karaikudi.(ICOANN -2010)	March 1-3 2010
Gold-based DNA chip arrays analysis of good borne microorganism	Corresponding author	International Conference on Advancement of Nanoscience and Nanotechnology	Department of Nanoscience and Technology. Alagappa University. Karaikudi.(ICOANN -2010)	March 1-3 2010
Nanoparticle based bacterial mediated drug delivery in mammalian cell	Corresponding author	Tamil Science Conference – 2009	Department of Tamil	Sep 11-13 2009
Application of gold nanoparticles for disease diagnosis and treatment	Corresponding author	Tamil Science Conference – 2009	Department of Tamil	Sep 11-13 2009
International colloquium on emerging biotechnologies in agriculture animal health and productivity	Corresponding author	International colloquium	Alagappa University and QUB Belfast UK- 2009	February 22-26 2009
National Seminar on Advancements In Bioelectronics and Biosensor	Corresponding author	NSABB - 2009	Department of bioelectronic and biosensor .Alagappa University, Karaikudi	March 19-20-2009
The Human Genome Project-important and application	Corresponding author	National Seminar on Application of Genomics and Bioinformatics in	Department of Animal Health and Management. Alagappa	2009

		Animal Health and Management	University. Karaikudi.	
Agrotechiques for mass production of Bhumyamalaki ( <i>Phyllanthus amarus</i> )	First author	National seminar on Commercial cultivation, processing & Marketing of Medicinal and aromatics plants	Directorate of Arecanut & Spices Development of Agriculture, Calicut	Nov 27-29 2001
Enchancement of seed germination Meshashiringi( <i>Gymne ma sylvestre</i> ) using different bio fertilizers	First author	National seminar on Commercial cultivation, processing & Marketing of Medicinal and aromatics plants	Directorate of Arecanut & Spices Development of Agriculture, Calicut	Nov 27-29 2001
Agrotechnique standardization of mass production-for Arjuna seedlings ( <i>Terminalia arjuna</i> )	First author	National seminar on Commercial cultivation, processing & Marketing of Medicinal and aromatics plants	Directorate of Arecanut & Spices Development of Agriculture, Calicut	Nov 27-29 2001

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