



## **GURUSAMY ANNADURAI**

M.Sc., (Anna University); Ph.D., (Anna University); JSPS FELLOW (JAPAN), TANSU – ENVIRONMENTAL SCIENCES (TAMIL NADU)

**PROFESSOR**

**SENIOR EDITOR (ELSEVIER)–MICROBIOLOGICAL RESEARCH AND REGIONAL EDITOR (SCIENCE ALERT JOURNALS)**

Nanoscience Division – Coordinator - M.Sc Nanoscience (UGC Innovative Programme)

Sri Paramakalyani Centre for Excellence in Environmental Sciences

**MANONMANIAM SUNDARANAR UNIVERSITY**

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**Dr.G.ANNADURAI**, M.Sc., (Anna University); Ph.D., (Anna University); JSPS Fellow (Japan),, TANSA – ENVIRONMENTAL SCIENCES (Tamil Nadu)

**PROFESSOR**

**SENIOR EDITOR (ELSEVIER) – MICROBIOLOGICAL RESEARCH AND REGIONAL EDITOR (SCIENCE ALERT JOURNALS)**

**About Prof. Dr. Gurusamy Annadurai:** Renowned Environmental Nanobiotechnology Scientist Dr.G.Annadurai has been working with dedication since 1992 for the development of India by harnessing both traditional and frontier technologies. Dr.G.Annadurai earned his M.Sc., (Applied Chemistry) from Anna University, Chennai, India with distinction and Ph.D. from the Department of Chemical Engineering, Anna University, Chennai, and then he did his Research Associate (CSIR) (1997-1999) at Department of Chemical Engineering, Anna University, Chennai, Post-Doctoral research at National Taiwan University, Taiwan (1999-2002), National Institute of Advanced Industrial Science and Technology, Japan (2002-2005-JSPS Fellow, Japan) and National Central University, Taiwan (2005-2008-Researcher). Presently, Dr.G.Annadurai is a faculty member of the Environmental Science and Coordinator M.Sc Nanoscience (UGC Innovative programme) Sri Paramakalyani Centre for Excellence in Environmental Sciences, Manonmaniam Sundaranar University, Alwarkurichi, and Tirunelveli. Dr.G.Annadurai's scientific contribution has been recognized through numerous awards such as Best Scientist in Environmental Sciences (2009) - TANSA by TNSCST, Chennai, India, “JSPS-Researcher Fellowship” (JSPS-2002 - Japan society for the promotion of science), “Who’s Who in the world” (2007)-Have been considered for inclusion in the upcoming 25th silver Anniversary Edition of "Whose Who in the world", which is scheduled for publication in 2007. “James Melcher Prize Paper Award” (IEEE-2006 - Institute of Electrical and Electronics Engineers): The University of Western Ontario, Department of chemical Engineering, Ontario, Canada. Dr.G.Annadurai is one of the world's foremost experts in the field of nonthermal plasma, environmental nanotechnology, removal of NO<sub>x</sub> from exhaust gas and pollutant air by ZrO<sub>2</sub>/Activated carbon fiber with non-thermal plasma, applied environmental microbiology, thermal activated sludge treatment techniques, graft-copolymer by using enzyme activity, immobilized on

composite beads like nanoparticles and agricultural by products by using enzyme activity, biodegradation and adsorption of aromatic compounds, extraction of essential oils from palmarosa grass (Palmarosa oil), color removal from aqueous environ by waste - derived biopolymer, biosynthesis of nanoparticles by using microbes and plant materials, pollution waste management for energy recovery and molecular evolution. Dr.G.Annadurai personnel skills and tireless efforts have become the scientific basis for national and global decision-makers. An outstanding speaker able to effectively explain complex scientific processes to even rural, uneducated audiences, personally and through various forms of the media, Dr.G.Annadurai is an eminent scientist, exceptional leader, excellent researcher and a contributor for the nation. He has attended several International Conferences and Symposia in Taiwan and Japan. He has published 160 research papers in refereed International and National Journals and presented many papers in National and International Symposia/Conferences. He has organized 4 Scientific Meetings, Workshops, Seminars and Conferences. He has completed 12 PhD students (Guide) and currently guiding 7 PhD Scholars. He has completed 5 M. Phil and 66 under graduate and postgraduate completed and currently guiding 5 postgraduate projects students. He is in many academic bodies in nationally and internationally. While ensuring accelerated environmental development through applications of science and technology, Dr.G.Annadurai has been relentlessly focusing attention on Preservation of Food for long term and Pesticide control in Agricultural based on Nanotechnology approaches for sustainable development. The integrated approach has remained one of the distinguishing aspects of Dr.G.Annadurai's original and path breaking contributions towards the revolutionary growth for nanobiotechnology and environmental sustainability in India and indeed the world. He has further studied the influence of various environmental factors on biomass productivity, realizing that this area of research will assume far greater importance in future in view of the depleting resources of the Earth's fuel supply. Dr.G.Annadurai took this challenging area of research with a view to solve this global problem and initially he has started this research in 2004 under the advice of Prof. Futamura for Nonthermal Plasma Process Utililizing CO<sub>2</sub> by Producing Hydrogen Fuel. His

prominent progress and contributions have made a significant impact among NGO's, farmers, students, and entrepreneurs and policy makers to join the global coalition dedicated to protecting the environment.

### EDUCATIONAL QUALIFICATION:

Degree	Board/University	Year of Passing	Subject
SSLC	Government High School Thailapuram, Virudhunagar (Dist)	1983	Tamil, English, Science, Maths, History & Geography
HSC	MCNUP Hr Sec School M.Chinnayapuram. Kottur, Virudhunagar (Dist)	1985	Tamil, English, Biology, Maths, Chemistry, Physics
B.Sc.,	Madurai Kamaraj University, Posupon Muthuramalinga Thever College, Department of chemistry, Usilampatty.	1990	Chemistry Ancillary: Maths, Physics.
M.Sc.,	Anna University, Department of Chemistry. Chennai.	1992	Applied Chemistry
Ph.D.,	Anna University, Department of Chemical Engineering. Chennai.	1997	Adsorption, Nanoscience and Nanotechnology

### ACADEMIC HISTORY AND PROFESSIONAL EXPERIENCES:

<b>[April 2014 to at present]:</b>	<b>Professor and Co-ordinator</b> UGC - Innovative postgraduate programme M.Sc Nanoscience Sri Paramakalyani Centre for Environmental Science, Manonmaniam Sundaranar University, Alwarkurichi-627 412
<b>[March 2008 - March 2014):</b>	<b>Associate Professor</b> Sri Paramakalyani Centre for Environmental Sciences, Manonmaniam Sundaranar University, Alwarkurichi-627 412, TN, India
<b>[July 2007-February 2008]:</b>	<b>Researcher [NSC]</b> Graduate Institute of Environmental Engineering, National Central University, No.300, Jungad Rd, Jhongli City, Taoyuan, Taiwan- 320, R.O.C. <i>Project: Graft-Co-polymer by using Enzyme Activity:</i> Chitosan-poly (HEMA – MMA – GMA - AC) microspheres: copolymer for immobilization of Urease, BSA, Papain, Tyrosinase, Acid Phosphatase, $\beta$ -glucosidase. Characterization and their Photocatalytic Activities of Metal Doped -TiO <sub>2</sub> ,
<b>December 2005-June 2007]:</b>	<b>Researcher [NSC]</b> Graduate Institute of Environmental Engineering, <i>Project:</i> Polycyclic Aromatic Hydrocarbon Removal form soil by Surfactant Solubilisation and white rot Fungus, Bacteria in a Biological Reactor and Enzyme-Nano materials.
<b>[April 2004- September 2005]:</b>	<b>Researcher [AIST]</b> Excited State Chemistry Group, Research Institute for Environmental Management Technology, National Institute of

	Advanced Industrial Science and Technology, AIST Tsukuba West, 16-1 Onogawa, Tsukuba, Ibaraki, 305-8569. JAPAN. <i>Project:</i> Non-thermal Plasma Chemical Processing of Hazardous Air Pollutants.
<b>[March 2002 – March 2004]:</b>	<b>Researcher [JSPS]</b> Energy Electronics Institute, National Institute of Advanced Industrial Science and Technology [AIST] Tsukuba Central - 2, 1-1-1 Umezono, Tsukuba, Ibaraki, 305-8568. JAPAN. <i>Project:</i> Removal of NO <sub>x</sub> from exhaust gas and pollutant air by ZrO <sub>2</sub> / Activated carbon fiber with non-thermal plasma.
<b>[December 1999 – February 2002]:</b>	<b>Researcher [NSC]</b> Department of Chemical Engineering, National Taiwan University, Taipei-106. TAIWAN. <i>Project:</i> (I)–Biodegradation and Adsorption of aromatic compounds by Chitosan, Chitin, activated carbon, orange, Banana peels, thermal activated sludge; (II) - Use of Polyelectrolyte Flocculants in Sludge Conditioning; (III) - sludge dewatering characteristics; (IV) – Coagulation.
<b>[October 1997 –November 1999]:</b>	<b>Research Associate [CSIR]</b> Department of Chemical Engineering, Alagappa College of Technology, Anna University, Chennai - 600 025. INDIA. <i>Project:</i> Studies on the biodegradation of phenolic Effluents.
<b>[July 1992 –September 1997]:</b>	<b>Ph.D., [Doctor of philosophy – Environmental Science and Biochemical Engineering ]</b> Department of Chemical Engineering, Alagappa College of - Technology, Anna University, Chennai - 600 025. INDIA. <i>Project:</i> Color removal from aqueous environ by waste - derived biopolymer.
<b>[July 1995 –September 1997]:</b>	<b>Senior Research Fellow [TST]</b> Department of Chemical Engineering, Alagappa College of Technology, Anna University, Chennai - 600 025. INDIA. <i>Project:</i> Extraction of essential oils from palmarosa grass (Palmarosa oil).
<b>[July 1992 –June 1997]:</b>	<b>Teaching Research Fellow [TSC]</b> <b>Teaching in P.G.Diploma in Sugar Technology.</b> Department of Chemical Engineering, Alagappa College of Technology, Anna University, Chennai - 600 025. INDIA. <i>Subject:</i> Physical Chemistry, Environmental Chemistry and Instrumentation Techniques.
<b>[July 1990 –June 1992]:</b>	<b>M.Sc., [Chemistry]</b> Department of Applied Chemistry, Anna University, Chennai - 25. INDIA. <i>Project:</i> Citric Acid Production from Fermentous Broth.
<b>[July 1987- June 1990]:</b>	<b>B.Sc., [Chemistry] ‡</b> Posupon Muthuramalinga Thever College, Usilampatty, [Madurai Kamaraj University], Madurai. INDIA. <i>‡ Ancillary subjects: Mathematics and Physics.</i>

## CO- RESEARCH GUIDANCE FOR M.SC AND PHD STUDENTS:

M.Tech Chemical Engineering student:	<i>(Department of Chemical Engineering, Anna University, Chennai. India)</i> <u>Project:</u> Adsorption of dyestuff using chelating polymer. Studies on the production of Furfural from bagasse.
M.Tech Petro Chemical Technology student:	<i>(Department of Chemical Engineering, Anna University, Chennai. India)</i> <u>Project:</u> Separation of wax from crude tank bottom sludge. Studies on recovery of Natural Indigo dye.
B.Tech Chemical Engineering student:	<i>(Department of Chemical Engineering, Anna University, Chennai. India)</i> <u>Project:</u> Manufacture of Chitin and Chitosan from prawn waste.
Ph.D student:	<i>(Department of Chemical Engineering, Anna University, Chennai. India)</i> <u>Project:</u> Studies on the biodegradation of phenolic Effluents.
MS Environmental Engineering:	<i>(Graduate Institute of Environmental Engineering, National Central University, Taiwan)</i> <u>Project:</u> Cellulose from Agricultural by Products <u>Project:</u> Graft-Copolymer by using Enzyme Activity <u>Project:</u> Immobilized on composite beads like Nanoparticles and Agricultural by Products by using Enzyme Activity

## TEACHING AND RESEARCH EXPERIENCE: 20 YEARS

Ph.D Awarded – 12

Ph.D Ongoing – 7

M.Phil Research Guidance and awarded: 5

B.Sc and M.Sc Research Guidance and awarded: 66

M.Sc Research Guidance – on going: 5

## TEACHING EXPERIENCE:

S.No	Course	Subject	University	Period
1	<b>P.G.Diploma in Sugar Technology</b>	Physical Chemistry, Environmental Chemistry and Instrumentation Techniques.	Department of Chemical Engineering, Alagappa College of Technology, Anna University, Chennai - 600 025. INDIA.	1992-1996
2	<b>B.Tech. Chemical Engineering</b>	Polymer and Elastomer Technology.	Department of Chemical Engineering, Alagappa College of Technology, Anna University, Chennai - 600 025. INDIA	1996-1997
3	<b>MS Environmental Engineering</b>	Solid waste management, Agricultural by products immobilization Techniques, Bioremediation, Biochemical Engineering, Environmental Chemistry. NOx removal and Hazardous Air Pollutants by non-thermal plasma.	Graduat Institute of Environmental Engineering, National Central University, No.300, Jungad Rd, Jhongli City, Taoyuan, Taiwan- 320, R.O.C.	2005-2008
4	<b>M.Sc Environmental Biotechnology</b>	Solid waste management, Environmental Nanotechnology, Nanobiotechnology, Environmental Chemistry, Instrumentation Research Methodology.	Sri Paramakalyani Centre for Environmental Sciences, Manonmaniam Sundaranar University, Alwarkurichi – 627412, Tamilnadu, India.	2008-2012
5.	<b>M.Sc Environmental Science</b>	Environmental Chemistry, Instrumentation Research Methodology, Environmental Nanoscience.	Sri Paramakalyani Centre for Environmental Sciences, Manonmaniam Sundaranar University, Alwarkurichi – 627412, Tamilnadu, India.	2012- Till date
6.	<b>MSc Nanoscience</b>	Introduction to Nanoscience, Introduction to Material Science, Synthesis of Nanomaterials, Environmental Nanotechnology, Characterization Techniques of Nanomaterials, Methods of Nanofabrication, Nanomedicine, Properties of Nanomaterials, Nanochemistry, Nanocomposites, Application of Nanotechnology	Sri Paramakalyani Centre for Environmental Sciences, Manonmaniam Sundaranar University, Alwarkurichi – 627412, Tamilnadu, India.	2012- Till date

## RESEARCH INTERESTS:

Chemistry, Material Science, Nanoscience and Nanotechnology, Adsorption Studies, Environmental Science, Nonthermal plasma, Environmental Nanotechnology, Applied Environmental Microbiology, Microbiology. Thermal activated sludge treatment techniques. Grafting, Immobilization, Biodegradation, Extraction, Solid waste management, Environmental Nanotechnology, Nanobiotechnology, Nanobioinformatics, Wastewater treatment.

## ONGOING AND COMPLETED RESEARCH PROJECT:

S.No	Title	Agency	Period	Grant/Amount Mobilized (Rs lakh)
1	Nano-porous adsorbent produced from fruits peel waste by using decolorization studies	University Grants Commission, New Delhi.	3 years – April, 2009 to March, 2012	Rs.5,62,300
2.	Colour removal of dyestuffs by Using porous adsorbent	Manonmaniam Sundaranar University, Tirunelveli	two year - June, 2008 to May, 2009	Rs. 50,000
3.	Development, characterization and utilization of a porous adsorbent from Pomelo fruits peel by using decolorization studies	Manonmaniam Sundaranar University, Tirunelveli	two year - June, 2009 to May, 2012	Rs.75,000
4.	Environmental Nanomaterial Produced from Orange Peel by using decolorization studies	TNSCST, Chennai	Six months – December 2008-May 2009	Rs.5,000
5.	Development of Macroporous Chitosan Biofunctionalized membrane and its Application for Reversible Enzyme Immobilization	DST (India) and NSC (Taiwan) – Indo-Taiwan Collaboration project	April 2011- March 2014	Rs. 10,65,600
6.	Biosynthesis of nanoparticle by using response surface methodology and evaluation of its bactericidal activity	TNSCST, Chennai	Six months – December 2010-May 2011	Rs.8,000
7.	A novel biofabrication of nanoparticles using microbes and its potential effect against microorganisms isolated from contaminated sewage sludge	TNSCST, Chennai	Six months – December 2010-May 2011	Rs.6,000
8.	Bio-engineering of nanoparticles using sulphur reducing bacteria isolated from rhizome soil of mangrove.	TNSCST, Chennai	Six months – December 2010-May 2011	Rs.6,000
9.	Preparation and characterization of silica coated Magnetic nanoparticles for rapid capture and detection of food borne pathogen.	TNSCST, Chennai	Six months – December 2010-May 2011	Rs.6,000
10.	MSc., Nanoscience – UGC Innovative Programme (Coordinator)	UGC, New Delhi	Five Years- 2013-2018	Rs-58,000,00
11.	DST-FIST (Project Implementation Group - Coordinator)	DST New Delhi	2010-2015	Rs - 39,00,000











12.	Non –SAP (Co -Coordinator)	UGC, New Delhi	2012-2013	Rs - 10,00,000
13.	Centre for Excellence In Tamil Nadu Higher Education , Chennai (Co - Coordinator)	Tamil nadu Higher Education Department Chennai-09	2009-2012	Rs-100,00,000

## POSTDOCTORAL FELLOWSHIP- RESEARHER – WORKING AND VISITED IN FOREIGN COUNTRIES:

Taiwan, Japan, Singapore, Hongkong, and Malaysia

## SENIOR EDITOR AND REGIONAL EDITORS IN JOURNALS:

	Senior Editors Gurusamy Annadurai	Microbiological Research	ISSN: 0944-5013	<a href="https://www.elsevier.com/journals/microbiological-research/0944-5013/editorial-board">https://www.elsevier.com/journals/microbiological-research/0944-5013/editorial-board</a>
	REGIONAL EDITORS Gurusamy Annadurai	Journal of Environmental Science and Technology	ISSN: 1994-7887	<a href="http://www.ansinet.com/eboard.php?issn=1994-7887">http://www.ansinet.com/eboard.php?issn=1994-7887</a>
	REGIONAL EDITORS Gurusamy Annadurai	Research Journal of Environmental Sciences	ISSN Print: 1819-3412	<a href="http://scialert.net/eboard.php?issn=1819-3412">http://scialert.net/eboard.php?issn=1819-3412</a>
	REGIONAL EDITORS Gurusamy Annadurai	Journal of Environmental Science and Technology	ISSN Print: 1994-7887	<a href="http://scialert.net/eboard.php?issn=1994-7887">http://scialert.net/eboard.php?issn=1994-7887</a>
	REGIONAL EDITORS Gurusamy Annadurai	Asian journal of Biotechnology	ISSN Print: 1996-0700	<a href="http://scialert.net/eboard.php?issn=1996-0700">http://scialert.net/eboard.php?issn=1996-0700</a>
	REGIONAL EDITORS Gurusamy Annadurai	International Journal of Chemical technology	ISSN Print: 1996-3416	<a href="http://scialert.net/eboard.php?issn=1996-3416">http://scialert.net/eboard.php?issn=1996-3416</a>

	<b>REGIONAL EDITORS</b> Gurusamy Annadurai	<b>Research Journal of Nanoscience and Nanotechnology</b>	<b>ISSN Print: 1996-5044</b>	<a href="http://scialert.net/eboard.php?issn=1996-5044">http://scialert.net/eboard.php?issn=1996-5044</a>
	<b>REGIONAL EDITORS</b> Gurusamy Annadurai	International Journal of Current Research	ISSN-0975-833X	<a href="http://www.journalcra.com/">http://www.journalcra.com/</a>

### PEER REVIEWER FOR THE FOLLOWING INTERNATIONAL JOURNALS:

S.No	International journal	Year	Total no of Reviewer Paper
1	Microbiological Research	2008-	210
2	Journal of Hazardous Materials	2008-	450
3	Chemical Engineering Journal	2008-	25
4	Bioresource Technology	2008-	22
5	Biodegradation	2008-	40
6	Journal of Molecular Catalysis A	2008-	15
7	Chemical; General Applied catalysis B Environmental	2008-	10
8	Journal of Nanoscience and Nanotechnology	2008-	25
9	Catalysis communications	2008-	45
10	Catalysis letters; Catalysis today	2008-	15
11	Bioprocess and Biosystem Engineering	2008-	25
12	Journal Environment Management; Water Research	2008-	14
13	Journal of chemical Technology and Biotechnology	2008-	16
14	Research Journal of Nanoscience and Nanotechnology	2010-	18
15	Journal of Environmental Science and Technology	2010-	22
16	International Journal of Chemical technology	2010-	15
17	Research Journal of Environmental Sciences	2011-	18
18	Asian Journal of Scientific Research	2011-	12
19	Interdisciplinary Sciences: Computational Life Sciences	2013-	4

### COMPUTER SOFTWARE LANGUAGE:

Working Knowledge in Statistical package: Design Experts (Version 7.0.3), Multi factorial Design, and Surfer Programmed in Windows interface.

## INSTRUMENTAL TECHNIQUES:

Thermo gravimetric Analysis (Mettler), SEM, TEM, XRD, NMR, Atomic Absorption Spectroscopy (Perkin Elmer), Zeta Potential [Malvern-2000], Gas Chromatograph [GC-17A, GC-353A, SHIMADZU], Particle Size Analyzer [Malvern-2000], Digital Phosphor Oscilloscope (Tektronix (TDS 3052), High Voltage Amplifier. Physical-Chemical Measurements, BOD, COD, Determination of chromium and sulphide, FT-IR, HPLC, Microbial culture techniques, Immobilization techniques, UV-Spectrophotometer (U - 2000 Hitachi), Differential Scanning Calorimeter.

## PRIZES / HONORS / FELLOWSHIP AWARDED:

1	<b>“Tamil Nadu Scientist Award (TANSA – 2009)”</b> (2010) – under the discipline of ‘Environmental Science’ by Tamil Nadu State Council for Science and Technology (TNSCST), Chennai, India.	2009
2	<b>“Who’s Who in the world”</b> (2007)-Have been considered for inclusion in the upcoming 25th silver Anniversary Edition of "Whos Who in the world", which is scheduled for publication in 2007.	2007
3	<b>“Researcher”</b> (NSC-2007 - National Science council). Graduate Institute of Environmental Engineering, National Central University, Taiwan.	2007
4	<b>“James Melcher Prize Paper Award”</b> (IEEE-2006 - Institute of Electrical and Electronics Engineers): The University of Western Ontario, Department of chemical Engineering, Ontario, CANADA.	2006
5	<b>“Researcher”</b> (NSC-2006 - National Science council). Graduate Institute of Environmental Engineering, National Central University, Taiwan.	2006
6	<b>“Researcher”</b> (NSC-2005 - National Science council). Graduate Institute of Environmental Engineering, National Central University, Taiwan.	2005
7	<b>“Researcher”</b> (AIST-2004 - Advanced Industrial Science and Technology). National Institute of Advanced Industrial Science and Technology, AIST Tsukuba West, 16-1 Onogawa, Tsukuba, Ibaraki, 305-8569. JAPAN.	2004
8	<b>“Best Paper Award”</b> [CICEJ-2003 - Chinese Institute of Chemical Engineering Journal). Department of Chemical Engineering, National Taiwan University, Taipei-106.TAIWAN.	2003
9	<b>“JSPS- Researcher Fellowship”</b> (JSPS-2002 - Japan society for the promotion of science). National Institute of Advanced Industrial Science and Technology [AIST] Tsukuba Central - 2, 1-1-1 Umezono, Tsukuba, Ibaraki, 305-8568.JAPAN.	2002
10	<b>“Researcher Fellowship”</b> (NSC-1999 - National Science council). Department of Chemical Engineering, National Taiwan University, Taipei-106.Taiwan.	1999
11	<b>“Research Associate Fellowship”</b> (CSIR-1997 - Council of Scientific and Industrial Research). Department of Chemical Engineering, Alagappa College of Technology, Anna University, Chennai-600 025. INDIA.	1997
12	<b>“Senior Research Fellowship”</b> (TST-1995 - Tamil Nadu Science and Technology). Department of Chemical Engineering, Alagappa College of Technology, Anna University, Chennai-600 025.INDIA.	1995

13	<b>“Teaching Research Fellow”</b> [Tamil Nadu sugar corporation-July 1992 – 1997 June]: - Teaching in P.G.Diploma in Sugar Technology.Department of Chemical Engineering, Alagappa College of Technology, Anna University, Chennai-600 025. INDIA.	1992-1997
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## CONFERENCE ORGANISED:

1. Organizing Secretary – National conference on ‘Nanotechnology: Current Approaches and Applications’ on Feb 5-6, 2010 at Sri Paramakalyani Centre for Environmental Sciences, Manonmaniam Sundaranar University, Alwarkurichi – 627412, TN, India.
2. Organizing Secretary – National conference on ‘Nanotechnology: Applications and its Advantages in Natural Science’, Feb 4-5, 2011 at Sri Paramakalyani Centre for Environmental Sciences, Manonmaniam Sundaranar University, Alwarkurichi – 627412, TN, India.
3. Organizing Secretary- National workshop on Environmental Pollution and Assesement’ Jan 10-1, 2017 at Sri Paramakalyani Centre for Environmental Sciences, Manonmaniam Sundaranar University, Alwarkurichi – 627412, TN, India.
4. Organizing Secretary- National Conference on ‘Climate change ang mitigation’, Feb 14-15, 2017 at Sri Paramakalyani Centre for Environmental Sciences, Manonmaniam Sundaranar University, Alwarkurichi – 627412, TN, India.

## PROFESSIONAL AFFILIATION:

S.No	Journal	Member	Year
1	Indian Journal of Environmental Protection	<b>Life Member</b>	1995 - Till date
2	Nanobioinformatics Board	<b>Life Member</b>	2008 - Till date
3	Medicinal and Aromatic Plants (MAPAI)	<b>Member</b>	2008 - Till date
4	Environmental Science, Mphil Examiner and Question setting in Alagappa University, Karaikudi.	<b>Member</b>	2008 - Till date
5	Environmental Science, Mphil Examiner and Question setting in Bharathidasan University, Trichy.	<b>Member</b>	2008 - Till date
6	Environmental Science and Technology, Mphil Examiner and Question setting in Bharathidasan University, Trichy.	<b>Member</b>	2008 - Till date
7	Doctoral committee and PhD Examiner, Department of Chemical engineering, National Institute of Technology, Trichy.	<b>Member</b>	2008 - Till date
8	Doctoral committee, Environmental Science in Bharathiar University, Coimbatore.	<b>Member</b>	2010- Till date

9	Board of Study in M.Sc Environmental Biotechnology course in Manonmaniam Sundaranar University, Tirunelveli.	<b>Member</b>	2008-2012
10	Doctoral committee Nanoscience and Nantechnology in Alagappa University, Karaikudi	<b>Member</b>	2010 - Till date
11	Doctoral committee Environmental Science and Technology in Bharathidasan University, Trichy.	<b>Member</b>	2010 - Till date
12	Doctoral committee Environmental Science and Technology in Bharathidhasan University, Trichy.	<b>Member</b>	2010 - Till date
13	MSc. Bioscience and Bioelectronics PG Examiner and Question setting in Alagappa University, Karaikudi.	<b>Member</b>	2012 - Till date
14	Doctoral committee Bioscience and Bioelectronics in Alagappa University, Karaikudi	<b>Member</b>	2012 - Till date
15	Board of Study in M.Sc Environmental Science course in Manonmaniam Sundaranar University, Tirunelveli.	<b>Member</b>	2012 - Till date
16	MSc., Nanoscience and Nantechnology PG Examiner and Question setting in Alagappa University, Karaikudi.	<b>Member</b>	2012 - Till date
17	Board of Study in M.Sc Nanoscience course in Manonmaniam Sundaranar University, Tirunelveli.	<b>Member</b>	2013 - Till date
18	In charge–Conducting Remedial coaching classes for Sri Paramakalyani Centre for Environmental Science, Manonmaniam Sundaranar University, and Tirunelveli from 01.04.2008 to 31-12-2014.	<b>Member</b>	01- 04 - 2008 to 31 – 12 - 2014
19	Doctoral committee BIOLOGY Technology in Gandhigram Rural University, Dindigul	<b>Member</b>	2015-Till date
20	University-Industry-Linkage centre's Manonmaniam sundaranar university	<b>Co-ordinator</b>	2016 - 2017
21	Granting Qualification approval to teachers and principle of affiliated colleges, Manonmaniam sundaranar university.	<b>Member</b>	11-06-2017
23	Uiversity Representative – ANNAI VELANKANNI COLLEGE, THOLAYAVATTAM-Tholayavattam – 629 157.	<b>Member</b>	13-03-2017 to 12-03-2019
24	Board of Study in M.Sc Nanoscience, Department of Nanoscience, Sarah Tucker College (Autonomous), Tirunelveli.	<b>Member</b>	22-03-2017 to Till Date

25	RUSA –UTILIZATION OF GRANT –COMMITTEE – Nomintaed as Member. Manonmnaim Sundaranar University, Tirunelveli- 627012.	Member	10-05-2017 Manonmnaim Sundaranar University, Tirunelveli- 627012.
26	Doctoral Committee members Ms.M.Sakthi Bagavathy, Reg-No-12520.	Member	20-06-2017 Till Date  Department of Chemistry, Manonmnaim Sundaranar University, Tirunelveli- 627012
27	Doctoral Committee members Ms.M.Sakthi Bagavathy, Reg-No-12520.	Member	29-06-2017 to Till Date  Department of Applied Science and Technology, Anna University, Chennai- 600 025.

### EXTERNAL PROGRAMME/VISIT:

S.No	Date	Purpose	Place
1.	11.08.2010	Guest lecture on 'Nanotechnology'	Dept. of Zoology, Sadakathullah Appa College, Tirunelveli
2.	24.11.2010	Boards of studies in Zoology	Dept. of Zoology, Lady Doak College Madurai
3.	29.11.2010- 30.11.2010	External Examiner for M.Sc Environmental Science	Dept. of Environmental Science, Bharathiar University, Coimbatore
4.	01.12.2010	Short Term Training programme on 'Perspectives in Nanoscience and Nanobiotechnology	Dept. of Biotechnology, Karunya University, Coimbatore
5.	03.12.2010	External Examiner for M.Sc Bioelectronics and Bio Sensor	Dept of Bioelectronics and Biosensor, Alagappa University, Karaikudi
6.	15.12.2010	Member of FDP selection committee for the selecting candidate for Teacher Fellowship Award	G. Venkataswamy Naidu College, Kovilpatti
7.	12.09.2010	External Examiner M.Phil for Environmental Sciences	Dept of Environmental Sciences, Bharathiar University, Coimbatore
8.	21.12.2010	Guest Lecture on National Level Conference	Dept of Chemistry, Sri Paramakalyani College, Alwarkurichi
9.	10.03.2011	External Examiner M.Phil for Environmental Sciences	Dept of Environmental Sciences, Bharathiar University, Coimbatore
10.	20.06.2011	External Examiner M.Phil for Environmental Sciences	Dept of Environmental Sciences, Bharathiar University, Coimbatore
11.	14.03.2011	Ph.D External Examiner	Dept of Chemical Engn. NIT, Tiruchi

12.	17.12.2012	Boards of study meeting	Lady Doak College Madurai
13.	10.04.2012 to 12.04.2012	External Examiner M.Sc for Environmental Sciences	Bharathiar University, Coimbatore
14.	27.04.2012	External Examiner for M.Sc (Bioelectronics and Bio Sensor)	Alagappa University, Karaikudi
15.	22.05.2012	Staff selection – Subject expert for interview	Mepco Schlenk Engineering college, Sivakasi
16.	01.08.2012	Inspection Commission Visit	Pioneer kumaraswamy college, Nagercoil
17.	06.08.2012	Ph.D External Examiner	National Institute of Technology, Tiruchirapalli
18.	13.12.2012	Ph.D External Examiner	Bharathidasan university, Tiruchi
19.	20.11.2012 to 23.11.2012	Chair person in National Level Conference	St. Andrews College, Gorakhpur
20.	11.10.2013	Guest lecture Session	Sarah Tucker College, Tirunelveli
21.	06.12.2013	Ph.D Viva-voce examination	Bharathiar University, Coimbatore
22.	20.12.2013	M.Phil Viva-voce examination	Gandhigram Rural University, Dindigul
23.	19.06.2014	Ph.D Viva-voce examination	Bharathiar University, Coimbatore
24.	05.08.2014	Ph.D Viva-voce examination	Bharathiar University, Coimbatore
25.	18.11.2014	External Examiner M.Sc for Bioelectronics	Alagappa University, Karaikudi
26.	24.11.2014	Valuation of M.Phil Degree Dissertation	Bharathiar University, Coimbatore
27.	31.12.2014	Ph.D Viva-voce examination	Periyar University, Selam
28.	14.04 2015	External Examiner M.Sc for Environmental science	Bharathiar University, Coimbatore
29.	14.05.2015	Ph.D Viva-voce examination	Sri Venkateswara university, Tirupati.
30.	20.07.2015	Ph.D Viva-voce examination	Sri Venkateswara university, Tirupati.
31.	11.09.2015	Ph.D Viva-voce examination	Alagappa University, Karaikudi
32.	01.10.2015	Ph.D Viva-voce examination	Bharathiar University, Coimbatore
33.	26-10-2015	Ph.D Viva-voce examination	Bharathiar University, Coimbatore
34.	17-02-2016	Guest lecture on Nanotechnology in daily life	Thiruvalluvar college, Papanasam
35.	26-02.2016	Ph.D Thesis Evaluation	Indian institute of technology guwahati
36.	13.04.2016	Pre Ph.D Presentation, Department of Plant science	Mannmaniam Sundaranar University Tirunelveli
37.	13.04.2016	Doctoral committee meeting Department of biology	Gandhigram Rural University, Dindigul

38	25.04.2016	Pre Ph.D Presentation, Sri Paramakalyani centre for environmental science,	Mannmaniam Sundaranar University, Alwarkurichi
39	16-02-2017	National Conference on Bioresources-Conservation, utilization and Future prospects 16 17 Feb-2017: Invitation for key note Address on Nanotechnology in Biological Sciences -16 Feb-2017	Gandhigram Rural University, Dindigul
40	. 07-02-2017	Qualification Approval to Teacher and Principal of Affiliated Colleges	Mannmaniam Sundaranar University, Tirunelveli
41	13-03-2017	Ph.D Viva-voce examination PhD-Evaluation/1776/2017 Ms.Barathi	Department of Environmental Science, Periyar University, Selam.
42	15-03-2017	Inspection Commission Visit – Appointment as Member T.D.M.N. Collge T-Kallikulam.	T.D.M.N. Collge T-Kallikulam.
43	21-04-2017	Ph.D Viva-voce examination PhD-Evaluation 21-04-2014 Ms.R- Kalyani	Department of Nanoscience and Nanotechnology, Karaikudi – 630 003.
44	27-03-2017	Inspection Commission Visit – Appointment as Member Popes College, Swaperpuram.	Popes College, Swaperpuram.
45	05-04-2017	Inspection Commission Visit – Appointment as Member P.M.T.College, Melaneelithanallur, Sankarankoil.	P.M.T.College, Melaneelithanallur, Sankarankoil.
46	17-18--04- 2017	External Examiner for msc Environmental Science End Semester Examinations paper Evaluation.	School of Environmental Science, central Univversity Kerala, Kasaragad, Kerala.
47	17-06-2016	Ph.D Qualifying Examinations-2017- 2018-Subject Expert –Environmental Science.	Department of Computer science, Mannmaniam Sundaranar University, Tirunelveli
48	07-06-2017	Internal Academic audit	Department of Chemistry, Mannmaniam Sundaranar University, Tirunelveli
49	21-07-2017	M.Phil Dissertation Evaluation and Viva-Voce –Appintment of External Examinations.	Department of Environmental Science, Periyar University, Selam.
50	03-08-2017	Pre –Ph.D Presentation Committe Members	Cetre for Reseach, Mannmaniam Sundaranar University, Tirunelveli



## QUESTION PAPER SETTING BOARD:

S.No	Date	Purpose	Place
1	14.12.2010	Question paper setting board – M.Phil Environmental Science	Dept. of Environmental Science, Bharathiar University, Coimbatore
2	14.01.2011	Question paper setting board – M.Phil Environmental Science	Dept of Environmental Sciences, Bharathiar University, Coimbatore
3	16.08.2011	Question paper setting board – M.Sc Environmental Science	Dept of Environmental Sciences, Bharathiar University, Coimbatore
4	21.02.2012	Question paper setting board – M.Sc Environmental Science	Bharathiar University, Coimbatore
5	20.06.2012	Question paper setting board – M.Phil Environmental Science	Dept of Environmental Sciences, Bharathiar University, Coimbatore
6	14.09.2012	Question paper setting board M.Sc (Bioelectronics and Bio Sensor)	Alagappa University, Karaikudi
7	30.07.2012	Question paper setting board –Ph.D (Nanoscience and technology)	Alagappa University, Karaikudi
8	30.09.2013	Question paper setting board – M.Sc (Nanoscience and technology)	Alagappa University, Karaikudi
9	14.09.2013	Question paper setting board - M.Sc (Bioelectronics )	Alagappa University, Karaikudi
10	19.11.2013	Question paper setting board – M.Phil Nanoscience and technology	Alagappa University, Karaikudi
11	25.02.2014	Question paper setting board – Ph.D Chemistry	Gandhigram Rural University, Dindigul
12	20.09.2014	Question paper setting board – Ph.D Chemistry	Gandhigram Rural University, Dindigul
13	14.01.2015	Question paper setting board-Ph.D Nanoscience and Nanotechnology	Alagappa University, Karaikudi
14	12.08.2015	Question paper setting board – M.Sc Bioelectronics	Alagappa University, Karaikudi
15	01.09. 2015	Question paper setting board – M.Sc Environmental science	Bharathiar University, Coimbatore
16	22.12.2015	Question paper setting board-Ph.D Nanoscience and Nanotechnology	Alagappa University, Karaikudi
17	020.2.2016	Question paper setting board – M.Sc Environmental science	Bharathiar University, Coimbatore
18	12.02.2016	Question paper setting board – M.Sc Nanoscience and technology	Alagappa University, Karaikudi
19	24.08.2016	Question paper setting – Chairman- M.Sc Biotechnology	Periyar university, Salem
20	15.09.2016	Question paper setting board – Chairman-M.Sc biochemistry	Periyar university, Salem
21	03.10.2016	Question paper setting board – M.Sc Nanoscience and technology	Alagappa University, Karaikudi
22	07.10.2016	Question paper setting board – M.Sc Bioelectronics	Alagappa University, Karaikudi
23	19.12.2016	Question paper setting board – M.Sc Environmental Biotechnology	Bharathidasan University, Tiruchirappalli
24	20-02-2017	Question paper setting board – M.Sc Nanoscience and Nanotechnology.	Alagappa University, Karaikudi
25	23-02-2017	Question paper setting board – M.Sc	Alagappa University, Karaikudi

		Bioelectronics	
26	22-02-2017	Question paper setting board – M.Sc Physics (Spec. in Biosensors)	Alagappa University, Karaikudi
27	23-02-2017	Question paper setting board – M.Sc Physics (Spec. in Biosensors)	Alagappa University, Karaikudi
28	23-02-2017	Question paper setting board – M.Sc Bioelectronics)	Alagappa University, Karaikudi
29	08-06-2017	Pre-Registration Entrance Examination for Ph.D-Nanoscience and Nanotechnology	Alagappa University, Karaikudi

## PUBLICATION IN INTERNATIONAL SEQUENCE DATABANK:

1. Arunachalam, R., Paulkumar, K. and **Annadurai, G.** 2009. '*Streptomyces noboritoensis* strain SPKC1 16S rRNA gene (partial) sequence', GenBank (NCBI-USA) – Accession No. FJ769838.
2. Paulkumar, K., Arunachalam, R. and **Annadurai, G.** 2011. '*Bacillus sp.* Strain PAA 16S rRNA gene, partial sequence', GenBank (NCBI-USA) – Accession No. HQ876460.
3. Shalinimol, C.R., Arunachalam, R. and **Annadurai, G.** 2011. '*Serratia marcescens* MTCC-10774 16S rRNA gene, partial sequence', GenBank (NCBI-USA) – Accession No. JF310706.
4. Paulkumar, K., Arunachalam, R., Gnana Jobitha, G., Vanaja, M., Rajeshkumar, S. and **Annadurai, G.** 2011. '*Bacillus flexus* KRG 16S rRNA gene, partial sequence', GenBank (NCBI-USA) – Accession No. JF831121.
5. Malarkodi,C., Paulkumar,K., Rajeshkumar,S., Arunachalam,R. and **Annadurai,G.** 2012. Klebsiella pneumoniae strain MAA 16S ribosomal RNA gene, partial sequence.' GenBank (NCBI-USA) – Accession No. JQ701742.
6. Malarkodi,C., Rajeshkumar,S., Chitra,K., Arunachalam,R. and **Annadurai, G.** 2012. Serratia nematodiphila strain CAA 16S ribosomal RNA gene, partial sequence.' GenBank (NCBI-USA) – Accession No. JQ701743.
7. Vanaja, M., Gnanajobitha, G., Paulkumar, K., Arunachalam, R., Rajeshkumar, S. and **Annadurai, G.** 2012. Bacillus sp VJAA 16S ribosomal RNA gene, partial sequence.' GenBank (NCBI-USA) – Accession No. JX524486.
8. Rajeshkumar, S., Malarkodi,C., Arunachalam, R. and **Annadurai, G.** 2012. Enterococcus sp. RMAA 16S ribosomal RNA gene, partial sequence. GenBank (NCBI-USA) – Accession No. JX524487.
9. Karthiga, P., Paulkumar, K., Arunachalam, R. and **Annadurai, G.** 2012. Bacillus subtilis KPAA 16S ribosomal RNA gene, partial sequence. GenBank (NCBI-USA) – Accession No. JX514484.

**PAPERS PUBLISHED IN REPUTED INTERNATIONAL JOURNALS**  
**NUMBER OF PAPERS PUBLISHED : 162**

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<b><u>Citation indices</u></b>	<b>All</b>	<b>Since 2011- up date on 24-07-2017</b>
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<b><u>h-index</u></b>	<b>34</b>	<b>29</b>
<b><u>i10-index</u></b>	<b>83</b>	<b>68</b>

S. No.	Research Article Author Journal Volume and Page Year	Google scholar Citation <b>24-07-2017</b>	Year
162	C Malarkodi, S Rajeshkumar, <b>G Annadurai</b> - Food Control, 2017.Detection of environmentally hazardous pesticide in fruit and vegetable samples using gold nanoparticles.Food Control, 80, 11-18.		2017
161	S Rajeshkumar, S Venkat Kumar, C Malarkodi, M Vanaja, K Paulkumar, <b>G Annadurai</b> .2017. Optimized Synthesis of Gold Nanoparticles using Green Chemical Process and its Invitro Anticancer Activity Against HepG2 and A549 Cell Lines. Mechanics, Materials Science & Engineering Journal.9, 116-124.		2017
160	M. Ponnaniakajamideen, V. Rukumani, K. Paulkumar, M. Vanaja, R. Samuel Rajendran1, and <b>G. Annadurai</b> (2017) Moringaoleifera Gum Mediated Fabrication of Gold Nanoparticles for Effective DNA Protection, Journal of BionanoscienceVol. 10: 1–7,		2017
159	Krishnamurthy Mathivanan & Rajendran Rajaram &Vellaisamy Balasubramanian & <b>GurusamyAnnadurai</b> (2017) Removal of Cd(II) and Cu(II) from Aqueous Solutions by Pseudomonas stutzeri KMNTT-01 Biomass(Accepted).		2017
158	M. Ponnaniakajamideen, S. Rajeshkumar, <b>G. Annadurai</b> (2017) In Vivo Antidiabetic and In Vitro Antioxidant and Antimicrobial Activity of Aqueous Leaves Extract of Chamaecostus cuspidatus Research J. Pharm. and Tech. 9(8);1-6.		2017
157	S. Rajeshkumar, C. Malarkodi, M. Vanaja, <b>G. Annadurai</b> (2016) Anticancer and enhanced antimicrobial activity of biosynthesized silver nanoparticles against clinical pathogens. Journal of Molecular Structure 1116, 165-173		2016
156	L.S. Sidjui, M. Ponnaniakajamideen, M. Malini, L.N. Famen, R. Sindhu, J. Uthaya Chandirika, <b>G. Annadurai</b> , G.N. Folefoc (2016) Lova trichilioïdes Root Back Mediated Green Synthesis of Silver Nanoparticles and Rating of Its Antioxidant and Antibacterial Activity against Clinical Pathogens. Journal of Nanoscience and Technology 2(1) 32–36.		2016
155	Lazare Sidjui Sidjuia, Yvan Anderson Ngandjui Tchanguou, Sindhu Radhakrishnan, Perumal Karthiga, Paul Djomgoueh, Rufin Marie Kouipou		2015

	Toghueof, Louis Claire Ndel Fameng, <b>G. Annadurai</b> , Gabriel Ngosong Folefoc. (2015). Preliminary <i>in vitro</i> antimicrobial screening of chemical constituents isolated from the root of <i>Lepleae mayombensis</i> (Meliaceae). <i>Journal of Applied Pharmaceutical Science Vol. 5 (12)</i> , pp. 035-041.		
154	Sindhu Radhakrishnan, abdullah a alarfaj and <b>G. Annadurai</b> . (2015). Estimation of phytochemical analysis and invitro antioxidant activity of <i>calotropis gigantea</i> extract: wound healing activity and its biomedical application. <i>International Journal of Pharmaceutical Sciences and Research</i> , 2015; vol. 6(7): 3053-3060.		2015
153	F. J. Jelin, S. Selva kumar, M. Malini, M. vanaja and <b>G. Annadurai</b> . (2015). Environment-assisted green approach agnps by nutmeg ( <i>myristica fragrans</i> ): inhibition potential accustomed to pharmaceuticals. <i>European Journal of Biomedical and Pharmaceutical sciences</i> . 2015, volume 2, issue 4, 258-274.		2015
152	Sindhu radhakrishnan <sup>1</sup> , Mathiazhagan A and <b>G. Annadurai</b> . (2015). <i>Achyranthes aspera</i> : a potent immune stimulating plant for herbal formulation and management of wounds. <i>European Journal of Biomedical and Pharmaceutical sciences</i> , Volume 2, Issue 4, 730-742.		2015
151	Uthaya chandirika J, Seetha lakshmi P, Mathiazhagan A, <b>Annadurai. G.</b> (2015). Design and development of chitosan nanoparticle in target novel drug delivery systems for urolithiasis. <i>European Journal of Biomedical and Pharmaceutical sciences</i> , , Volume 2, Issue 4, 528-537.		2015
150	Margret Leema M, Revathy M, Suresh T, Malini M and <b>G. Annadurai</b> . (2015). Batch Equilibrium And Kinetic Studies On Dye Adsorption By Using Chitosan Based TiO <sub>2</sub> Nanocomposite. <i>European Journal of Biomedical and Pharmaceutical sciences, ejbps</i> , , Volume 2, Issue 3, 1393-1410.		2015
149	M. Vanaja, S. Rajeshkumar, K. Paulkumar, G. Gnanajobitha, K. Chitra <b>G. Annadurai</b> . (2015). Fungal Assisted Intracellular and Enzyme based synthesis of silver Nanoparticles and its Bactericidal Efficiency. <i>International Research Journal of Pharmaceutical and Biosciences (IRJPBS)</i> 2 (3) 08 – 19.		2015
148	Madasamy Malini, Munusamy Thirumavalavan, Wen-Yi Yang, Jiunn-Fwu Lee, <b>G. Annadurai</b> . (2015) A versatile chitosan/ZnO nanocomposite with enhanced antimicrobial properties. <i>International Journal of Biological Macromolecules</i> 80 121–129	5	2015
147	Sivakavinesan M, Malini M, Alagumuthu G, <b>G. Annadurai</b> (2014). Equilibrium and Response Surface Methodology Studies for Adsorption of Rhodamine B by Chitosan Nanoparticle. <i>International Journal of Green and Herbal chemistry. Vol.3, No.4</i> , 1408-1420.		2014
146	Rajeshkumar S, Malarkodi C, Paulkumar K, Vanaja M, Gnanajobitha G, and <b>G. Annadurai</b> . (2014). Algae Mediated Green Fabrication of Silver Nanoparticles and Examination of Its Antifungal Activity against Clinical Pathogens. <i>International Journal of Metals</i> , Article ID 692643, 8 pages		2014
145	Malini M, Sivakavinesan M, Ponnaniakamideen M, Karthiga P, Abirami Alagumuthu and <b>G. Annadurai</b> . (2014). Eco-friendly cleaning of Biofouling in Reverse Osmosis Membrane Evaluated Using Medicinal plants screening. <i>International Journal of Green and Herbal chemistry. Vol.3, No.4</i> , 1365-1377.		2014
144	Paulkumar K, Gnanajobitha G, Vanaja K, Rajeshkumar S, Malarkodi C, Kannaiyan Pandian, and <b>G. Annadurai</b> . (2014). <i>Piper nigrum</i> Leaf and Stem Assisted Green Synthesis of Silver Nanoparticles and Evaluation of Its Antibacterial Activity Against Agricultural Plant Pathogens. <i>The Scientific World Journal</i> , Article ID 829894, 9 pages.	16	2014

143	K.Chitra, <b>G.Annadurai.</b> (2014). Antibacterial activity of Ph- Dependent biosynthesized silver nanoparticles against clinical pathogen. <i>BioMed Research International</i> Volume 2014, Article ID 725165, 6 pages		2014
142	Wen-Yi Yan, Munusamy Thirumavalavan, Madasamy Malini, Jiunn-Fwu Lee <b>G. Annadurai.</b> (2014). Development of Silica Gel-Supported Modified Macroporous Chitosan Membranes for Enzyme Immobilization and Their Characterization Analyses. <i>J Membrane Biol</i> 247:549–559.	2	2014
141	C.Malarkodi, S.Rajeshkumar, K.Paulkumar, M.Vanaja, G.Ganajobitha Biosynthesis and antimicrobial activity of semiconductor nanoparticles against oral pathogens. <i>Bioinorganic Chemistry and Applications Volume 2014, Article ID 347167, 10</i>	5	2014
140	M.Vanaja, S.Rajeshkumar, K.Paulkumar, G.Gnanajobitha, <b>G.Annadurai.</b> (2014). Degradation of methylene blue using biologically synthesized silver nanoparticles. <i>Bioinorganic Chemistry and Applications Volume 2014, Article ID 742346, 8</i>	10	2014
139	Chitra K, and <b>G. Annadurai.</b> (2013). Bioconjugated fluorescent chitosan Nanoparticles in the detection of clinical pathogen. <i>Journal of chitin and chitosan science, 11/2013; 2(1):1-6.</i>		2014
138	K.Chitra, <b>G.Annadurai.</b> (2014). Rapid capture and exemplary detection of clinical pathogen using surface modified florescent silica coated iron oxide nanoparticles. <i>Biocybematics and biomedical Engineering 34(4), 230-237.</i>		2014
137	M.Vanaja, K.Paulkumar, G.Gnanajobitha, S.Rajeshkumar, C. Malarkodi, <b>G. Annadurai.</b> (2014). Herbal plant synthesis of antimicrobial silver nanoparticles by <i>Solanum trilobatum</i> and its characterization. <i>International journal of metals.</i> Volume 2014, Article ID 692461, 8 pages		2014
136	S. Rajeshkumar, M. Ponnaniakajamideen, C. Malarkodi, M. Malini, <b>G. Annadurai.</b> (2014). Microbe mediated synthesis of antimicrobial semiconductor nanoparticles by marine bacteria. <i>Journal of nanostructure in chemistry 4(2), 1-7.</i>	5	2014
135	T. Suresh and <b>G. Annadurai</b> (2013). Synthesis, characterization and photocatalytic degradation of malachite green dye using titanium dioxide nanoparticles. <i>International Journal of Research in Environmental Science and Technology 2013; 3(3): 71-77.</i>		2013
134	Chitra K, and <b>G. Annadurai.</b> (2013). Fluorescent silica Nanoparticle in the detection and control the growth of pathogen. <i>Journal of Nanotechnology Volume , Article ID 509628, 7</i>		2013
133	Vanaja M, Rajeshkumar S, Paulkumar K, Gnanajobitha G, Malarkodi C and <b>G. Annadurai.</b> (2013) Kinetic study on green synthesis of silver nanoparticles using <i>Coleus aromaticus</i> leaf extract. <i>Adv. Appl. Sci. Res., 4(3):50-55.</i>	8	2013
132	Rajeshkumar S, Gnanajobitha G, Malarkodi C, Kannan C, <b>G. Annadurai.</b> (2013). Optimization of Marine Bacteria <i>Enterococcus</i> sp. Biomass Growth by using Response Surface Methodology. <i>J. Environ. Nanotechnol 2 (1), 20-27.</i>		2013
131	Rajeshkumar S, Vanaja M, Malarkodi C, Gnanajobitha G, Paulkumar K, Kannan C, and <b>G. Annadurai.</b> (2013). Development in Therapeutic importance of most sought marine algal Polysaccharide Fucoidans. <i>International Journal of Research in Biomedicine and Biotechnology 3(2), 37-43.</i>	1	2013
130	Chandirika JU, Nirmaladevi RK, <b>G. Annadurai.</b> (2013). Evaluation of <i>Aerva Lanata</i> Flower Extract for Its Antilithiatic Potential <i>in Vitro</i> and <i>In Vivo</i> . <i>International Journal of Pharmacy and Pharmaceutical Science Research.</i> 3(2), 67-71		2013

129	Ponnanikajamideen M, Selvamaleeswaran P and <b>G. Annadurai.</b> (2013). Antibacterial activity of different solvent extracts of <i>Tylophora asthmatica</i> (leaves) against different bacterial strains. <i>International Journal of Research in Botany.</i> 3(1), 13-18.		2013
128	Chitra K and <b>G. Annadurai.</b> (2013). Bioengineered silver nanobowls using <i>Trichoderma viride</i> and its antibacterial activity against gram-positive and gram-negative bacteria. <i>Journal of Nanostructure in Chemistry</i> 3:9,1-7.	6	2013
127	Vanaja M and <b>G. Annadurai.</b> (2013). <i>Coleus aromaticus</i> leaf extract mediated synthesis of silver nanoparticles and its bactericidal activity. <i>Applied Nanoscience</i> (3) 217-223.		2013
126	Vanaja M, Rajeshkumar S, Paulkumar K, Gnanajobitha G, Malarkodi C and <b>G. Annadurai.</b> (2013). Phytosynthesis and characterization of silver nanoparticles using stem extract of <i>Coleus aromaticus</i> . <i>International Journal of Materials and Biomaterials Applications</i> 3(1), 1-4.	6	2013
125	Paulkumar K, Rajeshkumar S, Gnanajobitha G, Vanaja M, Malarkodi C and <b>G. Annadurai.</b> (2013). Biosynthesis of Silver Chloride Nanoparticles Using <i>Bacillus subtilis</i> MTCC 3053 and Assessment of Its Antifungal Activity. <i>ISRN Nanomaterials, Volume 2013, Article ID 317963, 8 pages.</i>	4	2013
124	Gnanajobitha G, Rajeshkumar S, <b>G. Annadurai</b> Kannan C. (2013). Preparation and Characterization of Fruit-Mediated Silver Nanoparticles using Pomegranate Extract and Assessment of its Antimicrobial Activities. <i>J. Environ. Nanotechnology</i> 2(1), 04-10.	4	2013
123	P.Anbu, <b>G. Annadurai,</b> BK Hur. (2013). Production of alkaline protease from a newly isolated <i>Exiguobacterium profundum</i> BK-P23 evaluated using the response surface methodology. <i>Biologia,</i> 68(2), 186-193.	5	2013
122	Malarkodi C, Rajeshkumar S, Paulkumar K, Vanaja M, Gnanajobitha G, <b>G. Annadurai.</b> (2013). Bactericidal activity of bio mediated silver nanoparticles synthesized by <i>Serratia nematodiphila</i> . <i>Drug invention today</i> 5: 119-125.	8	2013
121	Malini M, Abirami G, Hemalatha V and <b>G. Annadurai.</b> (2013). Antimicrobial activity of Ethanolic and Aqueous Extracts of medicinal plants against waste water pathogens. <i>International Journal of Research in Pure and Applied Microbiology</i> 3(2), 40-42.	8	2013
120	Paulkumar K, Rajeshkumar S, Gnanajobitha G, Vanaja M, Malarkodi C and <b>G. Annadurai.</b> (2013). Eco-friendly Synthesis of Silver Chloride Nanoparticles using <i>Klebsiella planticola</i> (MTCC 2277). <i>International Journal of Green Chemistry and Bioprocess.</i> 3(1), 12-16.	9	2013
119	Malarkodi C, Rajeshkumar S, Paulkumar K, Gnanajobitha G, Vanaja M and <b>G. Annadurai.</b> (2013). Biosynthesis of semiconductor nanoparticles by using sulfur reducing bacteria <i>Serratia nematodiphila</i> . <i>Advances in Nano Research,</i> 1(2), 83-91.	8	2013
118	Gnanajobitha G, Vanaja M, Paulkumar K, Rajeshkumar S, Malarkodi C, <b>G. Annadurai.</b> And Cellapandian Kannan. (2013). Green Synthesis of Silver Nanoparticles using <i>Millingtonia hortensis</i> and Evaluation of their Antimicrobial Efficacy. <i>International Journal of Nanomaterials and Biostructures.</i> 3(1), 21-25.	8	2013
117	Gnanajobitha G, Paulkumar K, Vanaja M, Rajeshkumar S, Malarkodi C, <b>G. Annadurai.</b> And Kannan C. (2013). Fruit-mediated synthesis of silver nanoparticles using <i>Vitis vinifera</i> and evaluation of their antimicrobial efficacy. <i>Journal Of Nanostructure in Chemistry</i> 3:67, 1-6.	10	2013

116	Rajeshkumar S , Malarkodi C, Vanaja M, Gnanajobitha G, Paulkumar K, Kannan C and <b>G. Annadurai.</b> (2013). Antibacterial activity of algae mediated synthesis of gold nanoparticles from <i>Turbinaria conoides</i> . <i>Der Pharma Chemica</i> , 5(2):224-229.	10	2013
115	Rajeshkumar S, Malarkodi C, Paulkumar K, Vanaja M, Gnanajobitha G, <b>G. Annadurai.</b> (2013). Intracellular and extracellular biosynthesis of silver nanoparticles by using marine bacteria <i>vibrio alginolyticus</i> . <i>Nanoscience and Nanotechnology, An International Journal Universal Research Publications</i> 3(1), 21-25.	10	2013
114	Malarkodi C, Rajeshkumar S, Paulkumar K, Gnanajobitha G, Vanaja M, <b>G. Annadurai.</b> (2013). Bacterial synthesis of silver nanoparticles by using optimized biomass growth of <i>Bacillus</i> sp. <i>Nanoscience and Nanotechnology: An International Journal</i> 3(2), 26-32.	11	2013
113	Malarkodi C, Chitra K, Rajeshkumar S, Gnanajobitha G, Paulkumar K, Vanaja M, and <b>G. Annadurai.</b> (2013). Novel eco-friendly synthesis of titanium oxid nanoparticles by using <i>Planomicrobium</i> sp. and its antimicrobial evaluation. <i>Der Pharmacia Sinica</i> , 4(3): 59-66.	12	2013
112	Malarkodi C and <b>G. Annadurai.</b> (2013) A novel biological approach on Extra synthesis and characterization of semiconductor Zinc Sulfide nanoparticles. <i>Applied Nanoscience</i> 3 (5), 389-395.	14	2013
111	Rajeshkumar S, Malarkodi C, Gnanajobitha G, Paulkumar K, Vanaja M, Kannan C and <b>G. Annadurai.</b> (2013) Seaweed-mediated synthesis of gold nanoparticles using <i>Turbinaria conoides</i> and its characterization. <i>Journal Of Nanostructure in Chemistry</i> 3:44, 1-7.	15	2013
110	Chitra K and <b>G. Annadurai.</b> (2013) Antimicrobial activity of wet chemically engineered spherical shaped ZnO Nanoparticles on food borne pathogen. <i>International Food research Journal</i> 20(1), 1829-1834.	18	2013
109	Malarkodi C, Rajeshkumar S, Vanaja M, Paulkumar K, Gnanajobitha G and <b>G. Annadurai.</b> (2013). Eco-friendly synthesis and characterization of gold nanoparticles using <i>Klebsiella pneumonia</i> . <i>Journal Of Nanostructure in Chemistry</i> , 3(30), 1-7.	20	2013
108	Vanaja M, Gnanajobitha G, Paulkumar K, Rajeshkumar S, Malarkodi C, <b>G. Annadurai.</b> (2013). Phytosynthesis of silver nanoparticles by <i>Cissus quadrangularis</i> influence of physicochemical factors <i>Journal of Nanostructure in Chemistry</i> 3:17,1-18	24	2013
107	Brintha SR, Sivakavinesan M, Soranam R, <b>G. Annadurai.</b> (2012). Isotherm Studies on Adsorption of Crystal Violet Dye Using Zinc Oxide Adsorbents. <i>International Journal of Chemical and Analytical Science</i> , 3(10), 1573-1577.		2012
106	Sathianesan Mary-Helen, Minnalkodi Sivakavinesan, <b>G. Annadurai.</b> (2012). Equilibrium Studies on the Removal of Methyl Orange Dye from Aqueous Solution by Adsorption onto a Biopolymer. <i>Drug Invention Today</i> , 4(11), 590-593.		2012
105	Shalanimol C.R and <b>G. Annadurai.</b> (2012). Application of pink pigment (Prodigiosin) from <i>Serratia marcescens</i> (Bizio) MTCC 10774 bacteria in dyeing industry. <i>Journal of Basic and Applied Biology</i> , 6,(3&4),10-15.		2012
104	Saravanan S, Anitha MCA, Venkadesan S and <b>G. Annadurai.</b> (2012). Optimization of biosorption of arsenic metal ions by using immobilized metal resistant <i>Bacillus</i> sp. <i>International Journal of Research in Environmental Science and Technology.</i> 2(4), 114-118.		2012

103	Kethirabalan Chitra and <b>G. Annadurai.</b> (2012). Synthesis and characterization of dye coated fluorescent chitosan nanoparticles. <i>J. Acad. Indus. Res. Vol. 1(4)</i> , 199- 202.	1	2012
102	Anto SM and <b>G. Annadurai.</b> (2012). Arsenic Adsorption from Aqueous Solution Using Chitosan Nanoparticle. <i>Research journal of Nanoscience and Nanotechnology 2(2)</i> , 31-45.	7	2012
101	Arunachalam R, Paulkumar K and <b>G. Annadurai.</b> (2012). Phylogenetic analyses of pandemic influenza A (H1N1) virus. <i>Biologia 67 (1): 14-31.</i>	4	2012
100	Karthiga P, Soranam R and <b>G. Annadurai.</b> (2012). Alpha-mangostin, the major compound from <i>Garcinia mangostana</i> Linn. Responsible for synthesis of Ag Nanoparticles: Its characterization and Evaluation studies. <i>Research journal of Nanoscience and Nanotechnology 2(2)</i> , 46-57.	7	2012
99	Gnana Jobitha G, Kannan C and <b>G. Annadurai.</b> (2012). A Facile Phyto-Assisted Synthesis of Silver Nanoparticles Using the Flower of <i>Cassia auriculata</i> and Assessment of its Antimicrobial Activity. <i>Drug Invention Today 4(11)</i> , 579-584.	4	2012
98	Rajeshkumar S, Kannan C, <b>G, Annadurai.</b> (2012). Synthesis and Characterization of Antimicrobial Silver Nanoparticles Using Marine Brown Seaweed <i>Padina tetrastromatica</i> . <i>Drug Invention Today, 4(10)</i> , 511-513.	16	2012
97	Rajeshkumar S, Kannan C and <b>G. Annadurai.</b> (2012). Green Synthesis Of Silver Nanoparticles Using Marine Brown Algae <i>Turbinaria Conoides</i> And Its Antibacterial Activity. <i>International Journal of Pharma and Bio Sciences 3(4)</i> , 502 – 510.	15	2012
96	Gnanajobitha G, <b>G. Annadurai</b> Kannan C. (2012). Green synthesis of Silver Nanoparticle using <i>Elettaria Cardamomom</i> and Assesment of its Antimicrobial Activity. <i>International journal of pharma science and Research (IJPSR) 3 (3):323-330.</i>	25	2012
95	Edwin-Gladson SK, Muruganantham M and <b>G. Annadurai.</b> (2012). Batch Equilibrium studies on sewage sludge based porous adsorbents in dye wastewater treatment. <i>International Journal of Research in Environmental Science and Technology equilibrium 2(4)</i> , 87-91.		2012
94	Arunachalam R, Paulkumar K and <b>G. Annadurai.</b> (2012). Genetic ancestor of external antigens of pandemic influenza A (H1N1) virus. <i>Interdisciplinary Sciences: Computational Life Sciences 4</i> ,282-290.	2	2012
93	Anto SM and <b>G. Annadurai.</b> (2011). Preparation and Characterization of Chitosan Nanoparticle Using Protein adsorption from Aqueous Solution. <i>Journal of Basic and Applied Biology, 5(1&amp;2)</i> , 359-368.		2011
92	Paulkumar K, Arunachalam R and <b>G. Annadurai.</b> (2011). Biomedical applications of organically modified bioconjugated silica nanoparticles. <i>International Journal of Nanotechnology, 8(8/9): 653-663.</i>	3	2011
91	Jayarajan M, Arunachalam R and <b>G. Annadurai.</b> (2011). Use of low cost nano-porous materials of Pomelo fruit peels wastes in removal of textile dye. <i>Research Journal of Environmental Sciences, 5(5): 434-443.</i>	8	2011
90	Arunachalam R and <b>G. Annadurai.</b> (2011). Optimized response surface methodology for adsorption of dyestuff from aqueous solution. <i>Journal of Environmental Science and Technology, 4(1): 65-72.</i>	10	2011
89	Chakkaravarthy VM, Ambrose T, Vincent S, Arunachalam R, Paulraj MG, Ignacimuthu S and <b>G. Annadurai.</b> (2011). Bioefficacy of <i>Azadirachta Indica</i> (A. Juss) and <i>Datura metel</i> (Linn.) leaves extracts in controlling <i>Culex quinquefasciatus</i> (Diptera: Culicidae). <i>Journal of Entomology, 8(2): 191-197.</i>	16	2011



88	Jayarajan M, Arunachalam R and <b>G. Annadurai</b> . (2011) .Agricultural wastes of Jackfruit peel nano-porous adsorbent for removal of Rhodamine dye. <i>Asian Journal of Applied Sciences</i> , 4(3): 263-270.	33	2011
87	Sundar S, Alagumuthu G, <b>G. Annadurai</b> Nandagopal S. (2011). Monitoring and Assessment of Fluoride Contamination in Industrial Environment [South India] and Removal of Fluoride. <i>Research Journal of Pharmaceutical, Biological and Chemical Sciences</i> . Vol. 2 (4), 585-596.		2011
86	Arunachalam R and <b>G. Annadurai</b> . (2011). Nano-porous adsorbent from fruit peel waste for decolorization studies. <i>Research Journal of Environmental Sciences</i> , 5(4): 366-376.	2	2011
85	George J, Arunachalam R, Paulkumar K, Wesely EG, Shiburaj S and <b>G. Annadurai</b> . (2010). Characterization and Phylogenetic analysis of cellulase producing strain <i>Streptomyces noboritoensis</i> SPKC1. <i>Interdisciplinary Sciences: Computational Life Sciences</i> , 2: 205-212.	4	2010
84	Chakkaravarthy VM, Arunachalam R, Vincent S, Paulkumar K and <b>G. Annadurai</b> . (2010). Biodegradation of <i>Tricalcium Phosphate</i> by Phosphate Solubilizing Bacteria. <i>Journal of Biological Sciences</i> , 10(6): 531-535.		2010
83	Malickbasha M, Arunachalam R, Senthilkumar B, Rajasekarapandian M and <b>G. Annadurai</b> . (2010). Effect of ompR gene mutation in expression of ompC and ompF of <i>Salmonella typhi</i> . <i>Interdisciplinary Sciences: Computational Life Sciences</i> , 2: 157-162.	6	2010
82	Paulkumar K, Arunachalam R, Kameswaran R, Ramanibai R and <b>G. Annadurai</b> . (2010). Anti-cancer effect of indirubin-3'-monoxime for human laryngeal carcinoma. <i>International Journal of Cancer Research</i> , 6(1): 27-34.		2010
81	Amutha M, Arunachalam R, Umamaheswari M, Usharamalakshmi A, Ramakrishnan S and <b>G. Annadurai</b> . (2010). Medicinal use of <i>Camellia sinensis</i> on Lactose Intolerance. <i>Journal of Biological Sciences</i> , 10(2): 112-116.	7	2010
80	Arunachalam R, Wesely EG, George J and <b>G. Annadurai</b> . (2010). Novel approaches for Identification of <i>Streptomyces noboritoensis</i> TBG-V20 with cellulase production. <i>Current Research in Bacteriology</i> , 3(1): 15-26.	23	2010
79	Arunachalam R, Paulkumar K, Ranjitsingh AJA and <b>G. Annadurai</b> . (2009). Environmental Assessment due to air pollution near iron smelting industry. <i>Journal of Environmental Science and Technology</i> , 2(4): 179-186.		2009
78	Periasamy Anbu, <b>G. Annadurai</b> , Jiunn-Fwu Lee, Byund K Hur (2009). Optimization of alkaline protease production from <i>Shewanella oneidensis</i> MR-1 by response surface methodology. <i>Journal of Chemical Technology and Biotechnology</i> . 84, 54-62.		2009
77	M. Sugasawa, <b>G. Annadurai</b> and S. Futamura. (2009). Reaction Behavior of Toluene- Dichloromethane mixaration nonthermal plasma. <i>IEEE Transactions on Industry Applications</i> . 45 (4), 1499-1505.	5	2009
76	Shalanimol CR, Arunachalam R and <b>G. Annadurai</b> . (2009). Allocation and abundance of protozoa among soil aggregates. <i>Journal of Biological Sciences</i> , 9(7): 772-777.	2	2009
75	S. Futamura, <b>G. Annadurai</b> . (2008). Effects of Temperature, Reactor Type, and Voltage Properties, and Initial Gas composition on the Plasma Reforming of Aliphatic Hydrocarbons with CO <sub>2</sub> . <i>IEEE Transactions on Industry Applications</i> . 44(1), 53-60.	6	2008
74	Yi Ling Lai, <b>G. Annadurai</b> , Fu-Chuang Huang, Jiunn-Fwu Lee. (2008). Biosorption of heavy metals from aqueous solution using modified activated carbon: Comparison of linear and non-linear methods. <i>Journal of Chemical Technology and Biotechnology</i> . 83 (6), 788-798.	6	2008

73	Huan-Ping Chao, Jiunn-Fwu Lee, Lain-Chuen Juang, Ching-Her Kuo, <b>G. Annadurai</b> . (2008). Volatilization reduction rates of Monoaromatic Compounds in the Non ionic Surfactant Solutions. <i>Chemical Engineering Journal</i> . 142. 161-167.	8	2008
72	<b>G. Annadurai</b> , Lai Yi Ling, Jiunn-Fwu Lee. (2008). Adsorption of reactive dye from an aqueous solution by chitosan: Isotherm, kinetic and thermodynamic analysis. <i>Journal of Hazardous Materials</i> . 152(4), 337-346.	198	2008
71	Lai Yi Ling, <b>G. Annadurai</b> , Fu-Chuang Huang, Jiunn-Fwu Lee. (2008). Biosorption of Zn (II) on the different ca-alginate beads from aqueous solution. <i>Bioresource Technology</i> . 99, 6480-6487.	45	2008
70	<b>G. Annadurai</b> , Jiunn-Fwu Lee. (2008). Equilibrium studies on the adsorption of acid dye into chitin. <i>Environmental Chemistry Letters</i> . 6, 77-81.	11	2008
69	P. Anbu, S.C.B. Gopinath, A. Hilda, T. Lakshmi priya, <b>G. Annadurai</b> . (2007). Optimization of extracellular keratinase production by poultry farm isolates <i>Scopulariopsis brevicaulis</i> . <i>Bioresource Technology</i> . 98(6), 1298-1303.	58	2007
68	<b>G. Annadurai</b> , Lai Yi Ling, Jiunn-Fwu Lee. (2007). Biodegradation of phenol by <i>Pseudomonas pictorum</i> on immobilized with chitin. <i>African Journal of Biotechnology</i> . 6(3), 296-303.	48	2007
67	<b>G. Annadurai</b> , Lai Yi Ling, Jiunn-Fwu Lee. (2007). Statistical optimization of medium components and growth conditions by response surface methodology to enhance phenol degradation by <i>Pseudomonas putida</i> . <i>Journal of Hazardous Materials</i> . 151(1), 171-178.		2007
66	P. Anbu, S.C.B. Gopinath, A. Hilda, N. Mathivanan, <b>G. Annadurai</b> . (2006). Secretion of keratinolytic enzymes and keratinolysis by <i>Scopulariopsis brevicaulis</i> and <i>Trichophyton mentagrophytes</i> : Regression analysis. <i>Can. J. Microbiol. / Rev. can. Microbiol.</i> 52(11), 1060-1069.	22	2006
65	Huan-Ping Chao, Jiunn-Fwu Lee, Lain-Chuen Juang, Ching-Her Kuo, <b>G. Annadurai</b> . (2006). Volatile Organic Compounds Emission from Contaminated Soil during Surfactant Washing. <i>Environmental Engineering Science</i> . 23(6), 923-932.	4	2006
64	Shigeru Futamura, Hajime Kabashima, <b>G. Annadurai</b> . (2006). Roles of CO <sub>2</sub> and H <sub>2</sub> O as oxidants in the plasma reforming of aliphatic hydrocarbons. <i>Catalysis Today</i> . 115(1-4), 211-216.	22	2006
63	P. Anbu, S.C.B. Gopinath, A. Hilda, T. Lakshmi priya, <b>G. Annadurai</b> . (2005). Purification of keratinase from poultry farm isolate- <i>Scopulariopsis brevicaulis</i> and statistical optimization of enzyme activity <i>Enzyme and Microbial technology</i> . 36(5-6), 639-647.	81	2005
62	S. Futamura, <b>G. Annadurai</b> . (2005). Plasma reforming of Aliphatic Hydrocarbons with CO <sub>2</sub> . <i>IEEE Transactions on Industry Applications</i> . 41 (6), 1515- 1521.	12	2005
61	<b>G. Annadurai</b> , SS Sung, DJ Lee (2005). Optimization of floc characteristics for treatment of highly turbid water. <i>Separation science and technology</i> 39 (1), 19-42	15	2005
60	<b>G. Annadurai</b> , S. S. Sung, D.J. Lee. (2004). Simultaneous removal of turbidity and humic acid from high turbidity storm water. <i>Advances in Environmental Research</i> . 8, 713-725.	38	2004
59	<b>G. Annadurai</b> , S.Rajesh Babu, T.Sivakumar, G.Nagarajan, K.Ragu. (2003). In Vitro decolorization of basic methylene blue dye by the white rot Basidiomycets <i>Phanerochaete chrysosporium</i> (MTCC767) using box – behnken design of experiments. <i>Indian Journal Environmental Protection</i> . 23(1), 26-31.		2004

58	Shigeru Futamura, <b>G. Annadurai</b> . (2004). Synergy of Nonthermal Plasma and Catalysts in the Decomposition of fluorinated Hydrocarbons. <i>Recent Development in Applied Electrostatics</i> .63, 949-954.		2004
57	<b>G. Annadurai</b> , R .Malaisamy. (2003). Biodegradation of o-Cresol by <i>Pseudomonas pictorum</i> [NICM 2074] -immobilized onto polyurethane matrix and optimization of conditions using design experiments. <i>Asian Journal Microbiol and Environmental Science</i> . 5(3), 275-281.		2003
56	S.C.B. Gopinath, A. Hilda, T. Lakshmi priya, <b>G. Annadurai</b> , P. Anbu. (2003). Statistical optimization of amyolytic activity by <i>Aspergillus versicolor</i> . <i>Asian Journal Microbiol and Environemntal Science</i> . 5(3), 327-330.	11	2003
55	<b>G. Annadurai</b> , R.S. Juang, P.S. Yen, D.J. Lee. (2003). Use of thermally treated waste biological sludge as dye absorbent. <i>Advances in Environmental Research</i> . 7(3), 739-744.		2003
54	S.C.B. Gopinath, A. Hilda, T. Lakshmipriya, <b>G. Annadurai</b> , P. Anbu. (2003). purification of lipase from <i>Geotrichum candidum</i> : Conditions optimized for enzyme production by Box-Behnken design. <i>World Journal of Microbiology and Biotechnology</i> . 19 (7), 681-689.	26	2003
53	<b>G. Annadurai</b> , S.S. Sung, D.J. Lee. (2003). Floc Characteristics and Removal of Turbidity and Humic Acid from High Turbid Stormwater. <i>Journal of Environmental Engineering (ASCE)</i> . 129(6), 571-575.	27	2003
52	<b>G. Annadurai</b> , R.S. Juang, D.J. Lee. (2002). Adsorption of heavy metals from water using banana and orange peels. <i>Water Science and Technology</i> . 47(1), 185-190.	300	2003
51	<b>G. Annadurai</b> , R.Malaisamy, T.Murugesan, D.Mohan (2003). Biodegradation of p-Nitrophenol by <i>pseudomonas putida</i> (NICM 2174) immobilized in a novel polymeric matrix. <i>Indian Journal Environmental Protection</i> . 23 (4), 364-372.		2002
50	<b>G. Annadurai</b> . (2002). Biodegradation of pentachlorophenol by the <i>pseudomonas putida</i> (NICM 2174) using box-behnken design of experiments. <i>Indian Journal Environmental Protection</i> . 22 (11), 1213-1220.	1	2002
49	<b>G. Annadurai</b> , S. S. Sung, D. J. Lee, X. F. Peng. (2002). Factorial Design of Analysis of Turbidity and Humic Acid from High Turbidity Storm Water and floc characteristics. <i>Chinese Institute of Chemical Engineers Journal</i> . 33(4):353-364.	6	2002
48	<b>G. Annadurai</b> , R.S. Juang, D.J. Lee. (2002). Factor optimization for phenol removal using activated carbon immobilized with <i>pseudomonas putida</i> . <i>J.of Environmental Science and Health – Part A Toxic /Hazardous substances &amp; Environmental Engineering</i> . A37 (2), 149-161.	9	2002
47	S.C.B.Gopinath, A. Hilda, T. LakshmiPriya, <b>G. Annadurai</b> . (2002). Purification of lipase from <i>Cunninghamella verticillata</i> and optimization of enzyme activity using Response surface methodology. <i>World Journal of Microbiology and Biotechnology</i> . 18 (5), 449-458.	15	2002
46	<b>G. Annadurai</b> , R.S. Juang, D.J. Lee. (2002). Biodegradation and adsorption of phenol using activated carbon immobilized with <i>pseudomonas putida</i> . <i>J.of Environmental Science and Health – Part A Toxic /Hazardous substances &amp; Environmental Engineering</i> . A37 (6), 1133 – 1146.	23	2002
45	<b>G. Annadurai</b> , R.S. Juang, D.J. Lee. (2002). Microbiological degradation of phenol using mixed liquors of <i>pseudomonas putida</i> and activated sludge. <i>Waste management</i> . 22 (7), 703- 710.	101	2002
44	<b>G. Annadurai</b> , R.S. Juang, D.J. Lee. (2002). Factorial design analysis for adsorption of dye on activated carbon beads incorporated with calcium alginate. <i>Advances in Environmental Research</i> . 6(2), 191-198.	134	2002

43	<b>G.Annadurai</b> , R.Y. Juang, D.J. Lee. (2002). Use of cellulose – based wastes for adsorption of dyes from aqueous solutions. <i>J. of Hazardous Materials</i> 92, 263-274.	985	2002
42	<b>G.Annadurai</b> . (2002). Biodegradation and adsorption of phenol by chitosan-Immobilized mixed culture. <i>Indian Journal Environmental Protection</i> . 22 (5), 489-494.		2002
41	<b>Dr.G.Annadurai</b> . (2002) Adsorption of basic dye on strongly chelating polymer batch kinetics studies. <i>Iranian polymer journal</i> 11, 237-244.	23	2002
40	<b>G. Annadurai</b> , Jiunn-Fwu Lee. (2008). Application of artificial neural network model for the development of optimized complex medium for phenol degradation using <i>Pseudomonas pictorum</i> (NICM 2074). <i>Indian Journal of Environmental Protection</i> . 18(3), 383-392.		2001
39	<b>G.Annadurai</b> , R.S. Juang, D.J. Lee. (2001). Adsorption of rhodamine 6G from aqueous solutions on activated carbon. <i>J. of Environmental Science and Health – Part A Toxic /Hazardous substances &amp; Environmental Engineering</i> . A36 (5), 715-725.		2001
38	<b>G.Annadurai</b> , S. RajeshBabu K.P.O. Mahesh, , T. Murugesan. (2000).Adsorption and Bio-degradation of phenol by chitosan-immobilized <i>pseudomonas putida</i> (NICM) 2174). <i>Bioprocess Engineering</i> . 22(6), 493-501.	100	2000
37	<b>G.Annadurai</b> . (2000). Design of optimum response surface experiments for adsorption of direct dye on chitosan. <i>Bioprocess Engineering</i> . 23(5), 451-455.	91	2000
36	<b>G.Annadurai</b> , S. Rajesh Babu, T. Sivakumar, T. Murgesan. (2000). Degradation of phenol by a mixed culture of <i>pseudomonas putida</i> (NICM 2174) and <i>Pseudomonas pictorum</i> (NICM 2074) adsorbed on chitosan. <i>Indian Journal Environmental Protection</i> . 20(7), 493-498.		2000
35	<b>G.Annadurai</b> . (2000). Reactive Dye adsorption from aqueous solution using chitin. <i>Indian Indian Journal Environmental Protection</i> . 20(10), 731-737.	1	2000
34	<b>G.Annadurai</b> . (2000). Adsorption of direct dye from aqueous solution by chitin. <i>Indian Journal Environmental Protection</i> . 20(2), 81-87.	4	2000
33	<b>G.Annadurai</b> , R.S. Juang, D.J. Lee. (2000). Box - Behnken studies on dye removal from water using chitosan and activated carbon adsorbents. <i>Chinese Institute of Chemical Engineers Journal</i> . 31(6), 609-615.	6	2000
32	<b>G.Annadurai</b> , S. Raieshbabu, G. Nagarajan, K. Ragu. (2000). Use of Box-Behnken design of experiments in the production of manganese peroxidase by <i>phanerochaete chrysosporium</i> (MTCC 767) and decolorization of crystal violet. <i>Bioprocess Engineering</i> . 23(6), 715 – 719.	14	2000
31	<b>G.Annadurai</b> , S. Rajeshbabu, V.R. Srinivasamoorthy. (2000). Development of mathematical models (Logistic, Gompertz and Richards Model) describing the growth pattern of <i>pseudomonas putida</i> [NICM 2174]. <i>Bioprocess Engineering</i> . 23(6), 607 – 612.	16	2000
30	<b>G.Annadurai</b> , S. Rajeshbabu, V.R. Srinivasamoorthy. (2000). Mathematical modeling of phenol degradation system using fuzzy comprehensive evaluation. <i>Bioprocess Engineering</i> . 23(6), 599 – 606.	15	2000
29	R.Malaisamy, <b>G. Annadurai</b> , D. Mohan. (2000). Performance Optimization of Polysulfone ultrafiltration membranes for riboflavin separation using design experiments. <i>Bioprocess Engineering</i> . 22(2), 227-232.	13	2000
28	<b>G.Annadurai</b> , T. Sivakumar, S. Rajesh Babu. (2000). Photocatalytic Decolorization of Congo red over ZnO Powder using box-behnken design of Experiments. <i>Bioprocess Engineering</i> . 23(2), 167-173.	19	2000
27	<b>G.Annadurai</b> , S. Mathalaibalam, T. Murugesan. (2000). Design of experiments in the biodegradation of phenol using immobilized <i>pseudomonas pictorum</i> (NICM - 2077) on activated carbon. <i>Bioprocess Engineering</i> . 22(2), 101 –	39	2000

	107.		
26	M.Sivakumar, <b>G. Annadurai</b> , D. Mohan. (1999). Studies on Box-Behnken Design Experiments: Cellulose Acetate polyurethane ultrafiltration Membranes for BSA Separation. <i>Bioprocess Engineering</i> . 21(1), 65-68.	23	1999
25	<b>G. Annadurai</b> , M. Chellapandian, M.R.V. Krishnan. (1999). Adsorption of reactive dye on chitin. <i>Environmental Monitoring and Assessment</i> . 59, 111-119.	73	1999
24	<b>G. Annadurai</b> , K.P.O. Mahesh, P. Muruges, R.Vasanthakumar. (1999). Response surface method for experimental for adsorption of basic dye on chelating polymer. <i>Asian Journal Microbiol and Environmental Science</i> . 1(1-2), 81-87.		1999
23	S.Mathalai Balan, <b>G. Annadurai</b> , R.Y. Sheeja, V.R. Srinivasamoorthy, T. Murugesan. (1999). Modeling of Phenol degradation system using artificial neural networks. <i>Bioprocess Engineering</i> . 21(2), 129-134.	10	1999
22	<b>G. Annadurai</b> , R.Y. Sheeja, S. Mathalaibalan, T. Murugesan, V.R. Srinivasamoorthy. (1999). Factorial Design of experiments in the determination of adsorption equilibrium constants for basic methylene blue using biopolymer. <i>Bioprocess Engineering</i> . 20(1), 37-43.	12	1999
21	G.Nagarajan, <b>G. Annadurai</b> . (1999). Biodegradation of reactive dye [verofix red] by the white rot fungus <i>Phanerochaete chrysosporium</i> using Box-Behnken Experimental Design. <i>Bioprocess Engineering</i> . 20(5), 435-440.	20	1999
20	<b>G. Annadurai</b> , S. Mathalaibalam, T. Murugesan. (1999). Box – Behnken design in the Development of optimised complex medium for phenol degradation <i>pseudomonas putida</i> (NICM 2174). <i>Bioprocess Engineering</i> . 21(5), 415-421.	39	1999
19	<b>G. Annadurai</b> , S. Rajesh Babu, T. Murgesan. (1999). Studies on biodegradation of o-chlorphenol by <i>pseudomonas putida</i> (NICM 2174). <i>Indian Journal Environmental Protection</i> . 19(11), 815-821.		1999
18	<b>G. Annadurai</b> , S.Mathalaibalam. (1999). Use of factorial design of experiments in the determination of adsorption equilibrium constants: Phenol on activated Charcoal. <i>Indian Journal Environmental Protection</i> . 19(6), 406-411.		1999
17	<b>G. Annadurai</b> , R.Y.Sheeja. (1998). Some new three-level of design experiment for the determination of adsorption equilibrium: Basic dye on chitosan. <i>Indian Journal Surface Science Technology</i> . 14(1-4), 272-279.		1998
16	<b>G. Annadurai</b> , V.R. Srinivasamoorthy, M.R.V. Krishnan. (1998). Adsorption of reactive dye on experimental design for exploring response surface. <i>Indian Journal Environmental Protection</i> . 18(4), 281-284	1	1998
15	A.John Kennedy, M, Chinnadurai, J.J.K. Samson Ponselvam, <b>G. Annadurai</b> . (1998). Pollution Inventory for Tanneries in Ranipet and Vaniyambadi In Tamil Nadu. <i>Indian Journal Environmental Protection</i> . 18 (6), 418-424.	2	1998
14	A.John Kennedy, M, Chinnadurai, J.J.K. Samson Ponselvam, <b>G. Annadurai</b> . (1998). Pollution from Trannaries and options for treatment of effluent. <i>Indian Journal Environmental Protection</i> . 18 (9), 672-678.	15	1998
13	<b>G. Annadurai</b> , R.Y. Sheeja. (1998). Use of Box-Behnken design of experiments for the adsorption of Verofix Red using biopolymer. <i>Bioprocess Engineering</i> . 18(6), 463-466.	104	1998
12	<b>G. Annadurai</b> , N. Partha, V.R. Srinivasamoorthy, M.R.V. Krishnan. (1997). Factorial Design of experiments for adsorption of dye on chelating polymer. <i>Indian Journal Environmental Protection</i> . 17 (10), 721-723.	1	1997

11	<b>G.Annadurai</b> , M.R.V. Krishnan. (1997). Batch kinetic studies on Adsorption of acid reactive using chitosan dye from aqueous solution by chitin. <i>Indian Journal Chemical Technology</i> . 4, 217-222.		1997
10	R.Y.Sheeja, <b>G.Annadurai</b> , P. Kalaichelvi, T. Murugesan, V.R. Srinivasamoorthy. (1997). Design of optimum multifactorial response surface for adsorption of phenol on activated carbon. <i>Indian Journal Environmental Protection</i> . 17 (12), 881-885.	1	1997
9	<b>G.Annadurai</b> , M.R.V. Krishnan. (1997). Batch kinetics studies on adsorption of reactive dye using chitosan. <i>Indian Journal Environmental Protection</i> . 17(5), 328-333.	6	1997
8	<b>G.Annadurai</b> , M. Chellapandian, M.R.V.Krishnan. (1997). Adsorption of basic dye from aqueous solution by chitosan: Equilibrium studies. <i>Indian Journal Environmental Protection</i> . 17 (2), 95-98.	15	1997
7	<b>G.Annadurai</b> , M.R.V. Krishnan. (1997). Batch equilibrium adsorption of reactive dye onto natural biopolymer. <i>Iranian Polymer Journal</i> . 6(3), 169-175.	30	1997
6	G.Annadurai, MRV Krishnan. (1997) Adsorption of acid dye from aqueous solution by chitin Equilibrium studies, <i>Indian Journal Chemical Technology</i> . 4, 217-222.	61	1997
5	H.Umasankar, G. <b>Annadurai</b> , M. Chellapandian, M.R.V.Krishnan. (1996). Influence of Nutrients on Cell Growth and Xanthan Production by <i>Xanthomonas campestris</i> . <i>Bioprocess Engineering</i> . 14(6), 307-309.	20	1996
4	H.Umasankar, <b>G.Annadurai</b> , M., Chellapandian, M.R.V. Krishnan. (1996). Xanthan production - Effect of agitation. <i>Bioprocess Engineering</i> . 15(1), 35-37.	9	1996
3	D.Mailvanan, <b>G. Annadurai</b> , V. Raju M. Chellapandian, , M.R.V. Krishnan, J. Kunthala jayaraman. (1996). Citric Acid Production: Part I - Strategies for Reduction in Cycle Time for Targeted Yields. <i>Bioprocess Engineering</i> . 15(6), 323-326.	20	1996
2	<b>G.Annadurai</b> , M. Chellapandian, V. Raju, M.R.V. Krishnan. (1996). Citric acid production Part II: Recovery. <i>Bioprocess Engineering</i> . 16(1), 13-15.	23	1996
1	<b>G.Annadurai</b> , M.R.V. Krishnan.(1996). Adsorption of basic dye using chitin. <i>Indian Jourl Environmental Protection</i> . 16 (6), 444-449.	50	1996

**NUMBER OF BOOKS AUTHORED/CO-AUTHORED (BOOK CHAPTER)**  
**BOOK TITLE:**

**NEW DEVELOPMENTS IN HAZARDOUS MATERIALS RESEARCH**  
**RESPONSE SURFACE METHOD FOR EXPERIMENTAL OPTIMIZATION OF PHENOL**  
**ADSORPTION ON CHITOSAN.**

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**LIST OF PRESENTATION IN NATIONAL/INTERNATIONAL  
CONFERENCES:**

<b>S.No</b>	<b>Author</b>	<b>Title</b>	<b>University</b>	<b>Year</b>
1.	<b>G.Annadurai</b> , V.Raju, C.M.Lakshmanan and M.R.V.Krishnan.	Recovery of citric acid from fermenter broth.	45th Annual session of India, Indian Institute of Chemical Engineers, Department of Chemical Engineering. Manipal Institute of Technology, Manipal.India.	1992 December 4- 8.
2.	<b>G.Annadurai</b> M.R.V.Krishnan.	Impact of agricultural waste in the removal of dyestuff from synthetic solution	National Seminar on Recent advances in polymers. Indoor, India.	1995 February 11- 12.
3.	<b>G.Annadurai</b> M.R.V.Krishnan	Adsorption of direct dye using chelating polymer.	National Seminar on Recent advances in polymers. Indoor, India.	1995 February 11- 12.
4.	<b>G.Annadurai</b> M.R.V.Krishnan.	Adsorption of Mercury.	6th Internal Hans Wolfgang Nurnberg memorial symposium on metal compounds in Environment and life - analysis, speciation and specimen banking, Julch, Germany.	1995 May 9-12.
5.	<b>G.Annadurai</b> , M. Chellapandian, and M.R.V. Krishnan.	Sorption of heavy metal.	10th International conference on heavy metals in the Environmental, Hamburg, Germany	1995 September 8- 12
6.	<b>G.Annadurai</b> and M.R.V. Krishnan	Adsorption of reactive dye on chitosan.	International conference on chemistry and chemical science,	1995 November 16-17.

			Bio-science, Pharmacy, audiology and speech pathology and environmental pollution New Delhi (India).	
7.	<b>G.Annadurai,</b> R. Hariharan, M. Chellapandian, and M.R.V.Krishnan	Adsorption of basic dye onto chitosan.	Louis pasteurs centenary memorial symposium, (RRL), CSIR, Trivandrum (India).	1995 November 10
8.	<b>G.Annadurai,</b> M. Chellapandian, R. Hariharan and M.R.V. Krishnan	Adsorption of basic dye on chitosan: Batch studies.	Sixth National Convention of Electrochemists. CSIR, (CECRI), Karaikudi (India).	1995 December 20-21.
9.	<b>G.Annadurai,</b> M. Chellapandian, M. Hariharan and M.R.V. Krishnan	Adsorption of acid dye on chitosan: Batch studies.	National Seminar on polymer. Chandigarh (India).	1995 December 22-23.
10.	<b>G.Annadurai,</b> R. Hariharan, M. Chellapandian and M.R.V. Krishnan	Adsorption of basic dye onto chitin: Equilibrium studies.	National seminar on polymers. Chandigarh (India).	1995 December22-23.
11.	<b>G.Annadurai,</b> R. Hariharan, M. Chellapandian and M.R.V. Krishnan	Adsorption of direct dye from aqueous solution on chitin: Equilibrium studies.	At CHEMCON- 1995) Indian Chemical Engineering Congress, Kalpakkam.	1995 December 27-30.
12.	<b>G.Annadurai,</b> R. Hariharan, M. Chellapandian. and M.R.V. Krishnan	Adsorption of reactive dye on chitin.	International conference on Environmental Science and workshop on present status of analysing of trace metals and nutrients in the marine environment, RRL (CSIR) Trivandrum (India).	1996 January 8-13.
13.	<b>G.Annadurai,</b> R. Hariharan, M. Chellapandian and M.R.V. Krishnan	Adsorption of direct dye on chitosan.	International conference on Environmental Sciences and Workshop on present status of analysing of trace metals and nutrients in the marine environment, RRL(CSIR) Trivandrum,(India).	1996 January 8-13.
14.	<b>G.Annadurai,</b> R.	Adsorption of acid	International	1996 July 14-18.



	Hariharan, R. Chellapandian and M.R.V. Krishnan	dye onto chitin: Equilibrium studies.	symposium on Environmental chemistry and toxicology, Sydney, Australia.	
15.	<b>G.Annadurai</b> and M.R.V. Krishnan	Adsorption of dyestuff onto chelating polymer: Equilibrium studies.	Seventh National Convention/ Conference of Electrochemists. Department of Physics and University Industry International Cell, SHIVAJI University, Kolhapur - 416 004 (India)	1996 December 3- 5.
16.	<b>G.Annadurai</b> and M.R.V. Krishnan	Kinetic of adsorption of dye from aqueous solution using biopolymer.	IUPAC International Conference on chemical and Biological thermodynamics. Amristr - 143 005 (India),	1997 January 5-8.
17.	<b>G.Annadurai</b> and M.R.V. Krishnan	Use of factorial design of experiments in the determination of adsorption equilibrium constants: Direct scarlet B on biopolymer.	25th Exhibition- congress international meeting on Chemical Engineering Environment protection and biotechnology Frank frut am main. Germany,	1997 June 9-14.
18.	<b>G.Annadurai</b> and M.R.V.	Krishnan.Box- Behnken design of experiments in the determination of adsorption equilibrium: Basic dye on chitosan.	Golden Jubilee Celebrations and the Indian Institute of Chemical Engineering (1947- 1997) National symposium on Technology and management of industrial wastes and pollutants. Andhra University, Visakhapatnam - 530 003 (India).	1997 June 28th.
19.	<b>G.Annadurai</b> and M.R.V. Krishnan.	Design of experiments in the determination of adsorption equilibrium: Acid dye on chelating	International Conference on pollution and Technologies. Jawaharlal Nehru Technological	November 17-19. 1997

		polymer.	University, Hyderabad.	
20.	<b>G.Annadurai</b> and R.Y. Sheeja.	Use of Box- Behnken Design experiments determination of adsorption equilibrium: Reactive dye on chitin.	Advanced in Chemical Engineering. Bhabha Atomic Research Centre, Mumbai - 400 085.	1997 October 22-24.
21.	<b>G.Annadurai</b> and R.Y. Sheeja	Multifactor experimental designs for response for exploring response surfaces.	National seminar on modern trends in environmental chemistry. Raipur - 492 010 (M.P.).	1997 November 3-5.
22.	<b>G.Annadurai</b> and R.Y. Sheeja	Use of factorial design of experiments in the determination of adsorption equilibrium constant: Phenol on activated carbon.	International conference on pollution and technologies. Jawaharlal Nehru Technology, New Delhi, India.	1997 November 17-19.
23.	<b>G.Annadurai</b> and R.Y. Sheeja	Adsorption of acid dye using chitosan.	In proceeding of the Indian Institute of Chemical Engineers. Biochemical Engineering Department, Indian Institute of Technology, New Delhi, India.	1997 February 16-17.
24.	<b>G.Annadurai</b> and R.Y. Sheeja	Some new three level of design experiments in the determination of adsorption equilibrium: Basic dye on chitosan.	In the proceeding of the International of Conference on Disperse Systems. Indian Society for Surface Science and Technology. Jadavpur University, Calcutta, India.	1998 February 19-21.
25.	<b>G.Annadurai</b> , R.S. Juang, P.S. Yen, D.J. Lee	Use of thermally treated waste biological sludge as dye absorbent.	IWA sludge management entering the 3rd millennium- Industrial, Combined, water and wastewater residues. Conference proceeding. The Grand Hotel, Taipei, Taiwan.	2001 March 25-28.
26.	<b>G.Annadurai</b> ,	Adsorption	IWA Asia	200230 October ~

	R.S.Juang, D.J. Lee	removal of heavy metals from water using cellulose-based banana and orange peel wastes.	Environmental Technology 2001. Singapore.	1November.
27.	<b>G.Annadurai</b>	Biodegradation of P-Nitrophenol by pseudomonas putida (NICM 2174) Immobilized in novel polymeric matrix.	NAEP 28th Annual conference, National Association of Environmental professionals, 1049 sunset Drive, Lake Wales, FL 33853-4226. USA	2003 June 22-25.
28.	S. Futamura and <b>G.Annadurai.</b>	Plasma Reforming of Aliphatic Hydrocarbons with CO <sub>2</sub> .	IEEE Industry Applications Conference 39th IAS annual meeting. Seattle. USA.	2004-7 October
29.	S. Futamura and <b>G.Annadurai.</b>	CO <sub>2</sub> Reforming of Hydrocarbons with Nonthermal Plasma.	6th-IEJ-ESA Joint Symposium International Symposium on Electrostatics and Atmospheric Pressure Plasma Applications..Tokyo, Japan	2004 November 7-10,
30.	S. Futamura and <b>G.Annadurai.</b>	Synergy of Nonthermal Plasma and Catalysts in the Decomposition of Hydrofluorocarbons.	.Paper Presented at the 5th International Conference on Applied Electrostatics (ICAES'2004), Shanghai, China.	2004 Nov 2-5.
31.	S. Futamura and <b>G.Annadurai.</b>	Effects of Temperature, Reactor Type, and Voltage Properties on the Plasma Reforming of Aliphatic Hydrocarbons with CO <sub>2</sub>	IEEE Industry Applications Conference 40th IAS annual meeting. Sheraton Hong Kong Hotel and Towers, Hong Kong, China.	2005-02 - 06 October
32.	M. Sugawara, <b>G.Annadurai</b> and S. Futamura	Nonthermal Plasma Chemical Processing of Mixed VOCs.	IEEE Industry Applications Conference 40th IAS annual meeting. Sheraton Hong Kong Hotel and Towers, Hong Kong, China.	2005-02 - 06 October
33.	S. Futamura, <b>G.Annadurai.</b>	Synergy of Nonthermal Plasma and Catalysts in the	National Institute of Advanced Industrial Science and	2005 June 15 - 17,

		Decomposition of Fluorinated Hydrocarbons.	Technology, Ibaraki, Japan. 10th International Conference on Electrostatics, Espoo/Helsinki Finland.	
34.	M.Sugasawa, G.Annadurai,S.Futamur a,	81p5 Nonthermal plasma chemical processing of mixed VOCs	Conference record of the IEEE industry Applications conference 40 (4), 2918	2005
35.	<b>G. Annadurai</b> , Lai Yi Ling, Jiunn-Fwu Lee	Biosorption of zinc ion on ornage peel immobilized biomass of phanerochaete chrysosporium.	3rd International conference on Environmental Science and Technology 2007.American Academy of Sciences, 9720 Town Park, Dr.Ste 18, Houston, TX 77036.	2007 August 6-9.
36.	A.Maheswari, A.G.Murugesan. <b>G.Annadurai</b>	Remediation of arsenic in soil by Aspergillus nidulans isolated from arsenic contaminated site	10th Annual National Conference On Environment Science and Technology, Organized by Department of Environmental Biotechnology Bharathidasan University, Tiruchirappalli – 620 024. & Society for Science and Environment, Jaipur.	200828th -29th November,
37.	Shalanimol.C.R, <b>G.Annadurai</b>	Isolation of pigment producing bacterium and its application in dyeing Industry.	10th Annual National Conference On Environment Science and Technology, Organized by Department of Environmental Biotechnology Bharathidasan University, Tiruchirappalli – 620 024. & Society for Science and Environment, Jaipur.	200828th -29th November
38.	A.Amutha, A.G.Murugesan.	Biosorption of copper by Bacillus	10th Annual National Conference On	200828th -29th November

	<b>G.Annadurai</b>	cereus and Pseudomonas aeruginosa isolated from copper contaminated site and statistical modeling of box behnken model design	Environment Science and Technology, Organized by Department of Environmental Biotechnology Bharathidasan University, Tiruchirappalli – 620 024. & Society for Science and Environment, Jaipur.	
39.	S.Rajeshkumar, K.Paulkumar, C.R.Shalini mol, R.Arunachalam, G.Annadurai	Biological synthesis of silver nanoparticles by using microbes ( <i>Bacillus subtilis</i> )	National Conference on Advances in Nanotechnology- Emphasis on Environmental health and Therapeutics6 and 7th August 2009. J.J. College of Arts and Science, Pudukkotai-622 422. Tamilnadu. India.	2009 and 7th August
40.	N. Kohila vanitha, C.R. Shalini Mol, K, Paulkumar, R. Arunachalam , <b>G. Annadurai</b>	Equilibrium and Moeling of the dyestuff removal by chitosan nanomaterial produced from modified chitosan.	National Conference on Advances in Nanotechnology- Emphasis on Environmental health and Therapeutics6 and 7th August 2009. J.J. College of Arts and Science, Pudukkotai-622 422. Tamilnadu. India.	2009 and 7th August
41.	S.R.Nagabalan, C.R. Shalini Mol, K, Paulkumar, R. Arunachalam, <b>G. Annadurai</b>	Environmental Nanomaterial produced from orange Peel by using Decolorization studies.	National Conference on Advances in Nanotechnology- Emphasisi on Environmental health and Therapeutics. J.J. College of Arts and Science, Pudukkotai-622 422. Tamilnadu. India.	2009 and 7th August
42.	M.Vanaja, C.R. Shalini Mol, K, Paulkumar, R. Arunachalam , <b>G. Annadurai</b>	Biosynthesis of cadmium sulfide Nanoparticle by klebsiella Pllanticola by Response surface methdology.	National Conference on Advances in Nanotechnology- Emphasisi on Environmental health and Therapeutics. J.J. College of Arts and Science, Pudukkotai-622 422. Tamilnadu.	2009 and 7th August

			India.	
43.	M.Vanaja, C.R. Shalini Mol, K, Paulkumar, R. Arunachalam, <b>G. Annadurai</b>	Biological Synthesis of silver nanoparticle by using microbes (Bacillus subtilis).	National Conference on Advances in Nanotechnology- Emphasisi on Environmental health and Therapeutic. J.J. College of Arts and Science, Pudukkotai-622 422. Tamilnadu. India.	2009 Aug 6-7
44.	Chitra K, Paulkumar K, Arunachalam R and <b>Annadurai G</b>	Biomedical applications of bioconjugated silica nanoparticles – Implications for protection and biodetection process.	‘National Conference on Nanotechnology: Current Approaches and Applications Manonmaniam Sundaranar University, Alwarkurichi – 627412, TN, India.	2010 Feb 5-6
45.	Malarkodi C, Paulkumar K, Arunachalam R and <b>Annadurai G</b>	Optimize Response Surface methodology for biosynthesis of nanoparticles by pigment producing bacteria from soil sample collected from southern western ghats of Tamilnadu.	‘National Conference on Nanotechnology: Current Approaches and Applications’, 2010, Manonmaniam Sundaranar University, Alwarkurichi – 627412, TN, India.	2010 Feb 5-6
46.	Vanaja M, Paulkumar K, Arunachalam R and <b>Annadurai G</b>	Rapid biosynthesis of nanoparticles by using plants extrac collected from southern western ghats of Tamilnadu.	National Conference on Nanotechnology: Current Approaches and Applications Manonm aniam Sundaranar University, Alwarkurichi – 627412, TN, India.	2010 Feb 5-6
47.	Gnana Jobitha G, Paulkumar K, Arunachalam R and <b>Annadurai G</b>	Biorecovery of nanoparticles nad new composition of nanosized particle for control of various plant diseases.	National Conference on Nanotechnology: Current Approaches and Applications. Manonmaniam Sundaranar University, Alwarkurichi – 627412, TN, India	2010 Feb 5-6
48.	Rajeshkumar S, Paulkumar K and <b>Annadurai G</b>	Biosynthesis of silver nano particles by Bacillus subtilis.	‘National Conference on Nanotechnology: Current Approaches and Applications,	2010 Feb 5-6

			Manonmaniam Sundaranar University, Alwarkurichi – 627412, TN, India	
49.	Amutha M, Paulkumar K, Arunachalam R and <b>Annadurai G</b>	Nanoparticles as a carrier for drug delivery systems.	National Conference on Nanotechnology: Current Approaches and Applications', , 2010, Manonmaniam Sundaranar University, Alwarkurichi – 627412, TN, India	2010 Feb 5-6
50.	Ananthi V, Jaya V, Kasimeeral M, Subhulakshmi M, Paulkumar K and <b>Annadurai G</b> Ramakrishnan S	Biosynthesis of Cadmium sulfide nanoparticles by using <i>Bacillus subtilis</i>	National Conference on Nanotechnology: Current Approaches and Applications, Manonmaniam Sundaranar University, Alwarkurichi – 627412, TN, India	2010 Feb 5-6
51.	S.Gomathi, S.Petchiammal, S.Rukmani, G.Krishnaveni, S.Rajeshkumar, And G.Annadurai	Biosynthesis of Cadmium sulphide nanoparticles by using <i>Bacillus subtilis</i>	National Conference on Nanotechnology: Current Approaches and Applications, Manonmaniam Sundaranar University, Alwarkurichi – 627412, TN, India	2010 Feb 5-6
52.	Rajeshkumar S, Paulkumar K, Vanaja M, Malarkodi C, Chitra K, Gnanajobitha G, Michaelanto S, Arunachalam R and <b>Annadurai G.</b>	Optimized Biomass of <i>Bacillus subtilis</i> for synthesis of silver nanoparticles.	National symposium on Recent Developments in Environmental Science and Technology, Manonmaniam Sundaranar University, Alwarkurichi, TN, India.	2010Aug 19-20
53.	Rajeshkumar S, Paulkumar K, Vanaja M, Malarkodi C, Chitra K, Gnanajobitha G, Michaelanto S, Arunachalam R and <b>Annadurai G.</b>	Cadmium sulfide nanoparticles biosynthesis by <i>Bacillus subtilis</i> .	National symposium on Recent Developments in Environmental Science and Technology, Maonmaniam Sundaranar University, Alwarkurichi, TN,	2010Aug 19-20

			India.	
54.	Vanaja M, Paulkumar K, Rajeshkumar S, Malarkodi C, Chitra K, Gnanajobitha G, Michaelanto S, Arunachalam R and <b>Annadurai G.</b>	Biosynthesis of cadmium sulfide nanoparticles by <i>Klebsiella planticola</i> using response surface methodology.	National symposium on Recent Developments in Environmental Science and Technology', Manonmaniam Sundaranar University, Alwarkurichi, TN, India.	2010, Aug 19-20,
55.	Paulkumar K, Rajeshkumar S, Vanaja M, Malarkodi C, Chitra K, Gnanajobitha G, Michaelanto S, Arunachalam R and <b>Annadurai G.</b>	Novel green chemistry approach for biosynthesis of nanoparticles from optimized medium of <i>Klebsiella planticola</i> .	National symposium on Recent Developments in Environmental Science and Technology', Manonmaniam Sundaranar University, Alwarkurichi, TN, India.	2010 Aug 19-20,
56.	Chitra K, Malarkodi C, Rajeshkumar S, Paulkumar K, Vanaja M, Gnanajobitha G, Michaelanto S, Arunachalam R and <b>Annadurai G.</b>	Use of Box-Behnken design of experiments on decolorization studies by <i>Trichoderma viride</i> to optimized response surface methodology.	National symposium on Recent Developments in Environmental Science and Technology', Manonmaniam Sundaranar University, Alwarkurichi, TN, India.	2010 Aug 19-20
57.	Michaelanto S, Paulkumar K, Chitra K, Malarkodi C, Rajeshkumar S, Vanaja M, Gnanajobitha G, Arunachalam R and <b>Annadurai G.</b>	Absorption of protein by immobilized chitosan nanoparticle using optimized response surface methodology.	National symposium on Recent Developments in Environmental Science and Technology', Manonmaniam Sundaranar University, Alwarkurichi, TN, India.	2010 Aug 19-20
58.	Gnanajobitha G, Vanaja M, Paulkumar K, Michaelanto S, Chitra K, Malarkodi C, Rajeshkumar S, Arunachalam R and <b>Annadurai G.</b>	Bio-prospective of <i>Murraya koenigii</i> plant extract in development of nanoparticles.	Developments in Environmental Science and Technology, Manonmaniam Sundaranar University, Alwarkurichi, TN,	2010 Aug 19-20



			India.	
59.	Arunachalam R, Jayarajan M, Michael Anto S, Chitra K, Malarkodi C, Paulkumar K, Rajeshkumar S, Gnana Jobitha G, Vanaja M and <b>Annadurai G.</b>	Agricultural waste of Jackfruit peel nano-porous adsorbent for removal of Rhodamine dye.	National seminar on 'Emerging Trends in Nanoscience, Sri Paramakalyani College, Alwarkurichi, TN. India.	2010 Dec 21-22
60.	Dr.G.Annadurai	Aliphatic hydrocarbons with CO <sub>2</sub> for hydrogen production using nano catalyst by nonthermal plasma reforming	National seminar on 'Emerging Trends in Nanoscience, Sri Paramakalyani College, Alwarkurichi, TN. India.	2010 Dec 21-22
61.	Paulkumar K, Gnana Jobitha G, Vanaja M, Arunachalam R, Michael Anto S, Chitra K, Malarkodi C, Rajeshkumar S, and <b>Annadurai G.</b>	Bio-prospective synthesis of nanoparticle by <i>Klebsiella planticola</i> (MTCC 2277) using response surface methodology.	National seminar on 'Emerging Trends in Nanoscience, Sri Paramakalyani College, Alwarkurichi, TN. India.	2010Dec 21-22
62.	Vanaja M, Paulkumar K, Gnana Jobitha G, Arunachalam R, Michael Anto S, Chitra K, Malarkodi C, Rajeshkumar S, and <b>Annadurai G.</b>	Green-recovery of nanoparticle using <i>Coleus aromaticus</i> plant extract and assess its antimicrobial activity.	National seminar on 'Emerging Trends in Nanoscience, Sri Paramakalyani College, Alwarkurichi, TN. India.	2010 Dec 21-22.
63.	Gnana Jobitha G, Vanaja M, Paulkumar K, Arunachalam R, Michael Anto S, Chitra K, Malarkodi C, Rajeshkumar S, and <b>Annadurai G.</b>	Green mediated synthesis of nanoparticles using <i>Murraya koenigii</i> .	National seminar on 'Emerging Trends in Nanoscience, Sri Paramakalyani College, Alwarkurichi, TN. India.	2010 Dec 21-22
64.	Chitra K, Malarkodi C, Gnana Jobitha G, Vanaja M, Paulkumar K, Arunachalam R, Michael Anto S, Rajeshkumar S, and <b>Annadurai G.</b>	Synthesis of Zinc oxide nanoparticle an its bactericidal activity.	National seminar on 'Emerging Trends in Nanoscience', Sri Paramakalyani College, Alwarkurichi, TN. India.	2010Dec 21-22
65.	Malarkodi C, Chitra K, Gnana Jobitha G, Vanaja M, Paulkumar K, Arunachalam R, Michael Anto S, Rajeshkumar S, and <b>Annadurai G.</b>	Titanium di oxide nanoparticle synthesis – A biological approach.	National seminar on 'Emerging Trends in Nanoscience Sri Paramakalyani College, Alwarkurichi, TN. India.	2010 Dec 21-22,
66.	Rajeshkumar S,	Antimicrobial study	National seminar on	2010 Dec 21-22

	Paulkumar K, Malarkodi C, Chitra K, Gnana Jobitha G, Vanaja M, Arunachalam R, Michael Anto S, and <b>Annadurai G.</b>	on optimized biological silver nanoparticles.	'Emerging Trends in Nanoscience, Sri Paramakalyani College, Alwarkurichi, TN, India.	
67.	Michael Anto S, Paulkumar K, Rajeshkumar S, Malarkodi C, Chitra K, Gnana Jobitha G, Vanaja M, Arunachalam R, and <b>Annadurai G.</b>	Adsorption of protein on surface modified chitosan nanoparticle by immobilized system.	National seminar on 'Emerging Trends in Nanoscience, Sri Paramakalyani College, Alwarkurichi, TN, India.	2010 Dec 21-22
68.	Arunachalam R, Jayarajan M, Paulkumar K and <b>Annadurai G.</b>	Agricultural waste of Jackfruit peel nano-porous adsorbent for removal of Rhodamine dye.	National conference on 'Promising faces of Biotechnology, Muthayammal College of Arts & Science, Rasipuram, TN, India.	2011, Jan 7-8,
69.	S. Michael Anto, K. Chitra, C. Malarkodi, K. Paulkumar, S. Rajeshkumar, G. Gnana Jobitha, M. Vanaja, R. Arunachalam and <b>G. Annadurai</b>	Absorption of protein by cross linked chitosan nanoparticle.	National conference on Nanotechnology: Applications and its advantages in natural science, Manonmaniam Sundaranar University, Alwarkurichi – 627412, TN, India.	2011, Feb 4-5,
70.	K. Chitra, C. Malarkodi, K. Paulkumar, S. Rajeshkumar, G. Gnana Jobitha, M. Vanaja, S. Michael Anto, R. Arunachalam and <b>G. Annadurai.</b>	Preparation of fluorescent labeled chitosan nanoparticle.	National conference on Nanotechnology: Applications and its advantages in natural science, Manonmaniam Sundaranar University, Alwarkurichi – 627412, TN, India.	Feb 4-5, 2011
71.	G. Gnana Jobitha, M. Vanaja, K. Paulkumar, S. Rajeshkumar, K. Chitra, C. Malarkodi, S. Michael Anto, R. Arunachalam, C. Kannan and <b>G. Annadurai.</b>	Rapid synthesis and characterization of nanoparticles using <i>Elettaria cardamomum</i> .	National conference on Nanotechnology: Applications and its advantages in natural science, Manonmaniam Sundaranar University, Alwarkurichi – 627412, TN, India.	Feb 4-5, 2011.
72.	C. Malarkodi, K. Chitra, K. Paulkumar, S. Rajeshkumar, G. Gnana	Optimized response surface methodology for	National conference on Nanotechnology: Applications and its	2011, Feb 4-5.

	Jobitha, M. Vanaja, S. Michael Anto, R. Arunachalam and <b>G. Annadurai.</b>	biosynthesis of nanoparticles by sulphur reducing bacteria.	advantages in natural science, Manonmaniam Sundaranar University, Alwarkurichi – 627412, TN, India.	
73.	P. Karthiga, R. Soranam and <b>G. Annadurai.</b>	A review on biosynthesis of silver nanoparticles using mangosteen leaf extract and evaluation of their antimicrobial activities.	National conference on Nanotechnology: Applications and its advantages in natural science, Manonmaniam Sundaranar University, Alwarkurichi – 627412, TN, India.	2011, Feb 4-5,
74.	M. Vanaja, K. Paulkumar, G. Gnana jobitha, S. Rajeshkumar, R. Arunachalam, C. Malarkodi, K. Chitra, S. Michael Anto and <b>G. Annadurai.</b>	Synthesis of plant-mediated silver nanoparticles using <i>Coleus aromaticus</i> extract and evaluation of their anti microbial activities.	National conference on Nanotechnology: Applications and its advantages in natural science, Manonmaniam Sundaranar University, Alwarkurichi – 627412, TN, India.	2011 Feb 4-5,
75.	S. Rajeshkumar, K. Paulkumar, M. Vanaja, G. Gnana Jobitha, C. Malarkodi, K. Chitra, S. Michael Anto, R. Arunachalam, C. Kannan1 and <b>G. Annadurai.</b>	Biogenic synthesis of silver nanoparticles and its antimicrobial effect.	National conference on Nanotechnology: Applications and its advantages in natural science, Manonmaniam Sundaranar University, Alwarkurichi – 627412, TN, India.	2011, Feb 4-5,
76.	R. Arunachalam, K. Paulkumar, M. Vanaja, G. Gnana Jobitha, S. Rajeshkumar, C. Malarkodi, K. Chitra, S. Michael Anto and <b>G. Annadurai.</b>	Nano-porous adsorbent from orange fruit peel for decolorization studies	National conference on Nanotechnology: Applications and its advantages in natural science, Manonmaniam Sundaranar University, Alwarkurichi – 627412, TN, India.	2011, Feb 4-5,
77.	K. Paulkumar, S. Rajeshkumar, M. Vanaja, G. Gnana Jobitha, C. Malarkodi, K. Chitra, S. Michael Anto, R. Arunachalam	Bio-facile synthesis and characterization of nanoparticles by optimizing <i>Bacillus sp.</i> using response	National conference on Nanotechnology: Applications and its advantages in natural science, Manonmaniam	2011 Feb 4-5

	and <b>G. Annadurai.</b>	surface methodology.	Sundaranar University, Alwarkurichi – 627412, TN, India.	
78.	M. Amutha, K. Paulkumar, S. Rajeshkumar, M. Vanaja, G. Gnana Jobitha, C. Malarkodi, K. Chitra, S. Michael Anto, R. Arunachalam and <b>G. Annadurai.</b>	Optimized response surface methodology for biosynthesis of cadmium sulphide nanoparticles using <i>Lactobacillus</i> sp.	National conference on Nanotechnology: Applications and its advantages in natural science, Manonmaniam Sundaranar University, Alwarkurichi – 627412, TN, India.	2011, Feb 4-5,
79.	G.Gnana jobitha, C.Kannan, <b>G.Annadurai.</b>	Rapid preparation process of silver nanoparticles using flower extract of <i>Cassia auriculata</i> and their characterizations	National conference on Recent Advancements in Nanomaterials for sensor application, NANOSE-12, Alagappa University, Karaikudi.	2012, March 8-9
80.	K.Paulkumar, <b>G.Annadurai.</b>	Application of fluorescent nanoproducts for rapid diagnosis	National conference on Recent Advancements in Nanomaterials for sensor application, NANOSE-12, Alagappa University, Karaikudi.	2012, March 8-9
81.	S.Michael Anto, <b>G.Annadurai</b>	Kinetic Adsorption of Arsenic from aqueous solution using chitosan nanoparticle.	National conference on Recent Advancements in Nanomaterials for sensor application, NANOSE-12, Alagappa University, Karaikudi.	2012, March 8-9
82.	R.Mehala, S.Rajeshkumar, <b>G.Annadurai</b>	Extracellular biosynthesis of optimized silver nanoparticles by using marine Microbes	National conference on Recent Advancements in Nanomaterials for sensor application, NANOSE-12, Alagappa University, Karaikudi.	2012, March 8-9
83.	M.Subbulakshmi, K.Chitra <b>G.Annadurai</b>	Silica coated Magnetic nanoparticles for rapid capture and detection of food borne pathogen	National conference on Recent Advancements in Nanomaterials for sensor application, NANOSE-12,	2012, March 8-9

			Alagappa University, Karaikudi.	
84.	M.Malini, G.Alagumuthu <b>G.Annadurai</b>	Study on eco friendly anti-microfouling activity in reverse osmosis membrane by medicinal plant extracts	National conference on Recent Advancements in Nanomaterials for sensor application, NANOSE-12, Alagappa University, Karaikudi.	2012, March 8-9
85.	P.Karthiga, R.Soranam <b>G.Annadurai</b>	Alpha- Mangostin, the major compound from <i>Garcinia mangostana</i> Linn., Responsible for synthesis of Ag Nanoparticles; Its characterization and evaluation studies	National conference on Recent Advancements in Nanomaterials for sensor application, NANOSE-12, Alagappa University, Karaikudi.	2012, March 8-9
86.	G.Selvakrishnan, C.Malarkodi <b>G.Annadurai</b>	A novel extracellular synthesis of silver nanostructures-key role of sulfur reducing bacteria	National conference on Recent Advancements in Nanomaterials for sensor application, NANOSE-12, Alagappa University, Karaikudi.	2012, March 8-9
87.	M.Sivakavinesan G.Alagumuthu <b>G.Annadurai</b>	Preservation of sweet lime (Citrus limetta) juice using of chitosan and chitosan nanoparticles	National conference on Recent Advancements in Nanomaterials for sensor application, NANOSE-12, Alagappa University, Karaikudi.	2012, March 8-9
88.	M.Vanaja <b>G.Annadurai</b>	Environmental applications of Nanobiosensor in heavy metal detection by green synthesised silver nanoparticles	National conference on Recent Advancements in Nanomaterials for sensor application, NANOSE-12, Alagappa University, Karaikudi.	2012, March 8-9
89.	K. Paullkumar and <b>G. Annadurai.</b>	Bactericidal effect of silver nanoparticles against bacterial pathogen isolated from edible fishes.	National conference on Vulnerabilities adaptations of fauna and flora to rapidly changing environment, Department of Zoology, St. Andrews College, Gorakhpur –	2012 Nov21-22,

			273001, UP, India.	
90.	M. Vanaja and <b>G. Annadurai.</b>	Phytosynthesis of silver nanoparticles using <i>Solanum trilobatum</i>	National conference on Vulnerabilities adaptations of fauna and flora to rapidly changing environment, Department of Zoology, St. Andrews College, Gorakhpur – 273001, UP, India.	2012 Nov21-22,
91.	M. Malini, G. Alagumuthu and <b>G. Annadurai.</b>	Fouling of inorganic membrane by adsorption of whey proteins	National conference on Vulnerabilities adaptations of fauna and flora to rapidly changing environment, Department of Zoology, St. Andrews College, Gorakhpur – 273001, UP, India.	2012 Nov 21-22
92.	K. Chitra and <b>G. Annadurai.</b>	Bioengineered silver nanobowls using <i>Trichoderma viride</i>	National conference on Vulnerabilities adaptations of fauna and flora to rapidly changing environment, Department of Zoology, St. Andrews College, Gorakhpur – 273001, UP, India.	2012, Nov21-22,
93.	M. Sivakavinesan, G. Alagumuthu and <b>G. Annadurai.</b>	Grape ( <i>Vitis vinefera</i> ) juice enrichment using chitosan and chitosan nanoparticles	National conference on Vulnerabilities adaptations of fauna and flora to rapidly changing environment, Department of Zoology, St. Andrews College, Gorakhpur – 273001, UP, India.	2012, Nov21-22,
94.	C. Malarkodi and <b>G. Annadurai.</b>	Novel eco-friendly synthesis of silver nanoparticles using optimized biomass of <i>Klebsiella pneumonia</i> and evaluation of its antimicrobial activity	National conference on Vulnerabilities adaptations of fauna and flora to rapidly changing environment, Department of Zoology, St. Andrews College, Gorakhpur – 273001, UP, India.	2012,Nov21-22,
95.	M. Ponnani kajamaideen and <b>G.</b>	Phytochemical analysis and	National conference on Vulnerabilities	2012, Nov21-22,

	<b>Annadurai.</b>	antibacterial activity of different solvent extracts of Tylophora asthmatica (leaves) against bacterial strains	adaptations of fauna and flora to rapidly changing environment, Department of Zoology, St. Andrews College, Gorakhpur – 273001, UP, India.	
96.	G. Gnana Jobitha, C. Kannan, <b>G. Annadurai.</b>	Green synthesis of silver nanoparticles using bark extract of Pterocarpus marsupium	National conference on Vulnerabilities adaptations of fauna and flora to rapidly changing environment, Department of Zoology, St. Andrews College, Gorakhpur – 273001, UP, India.	2012, Nov21-22,
97.	S. Rajeshkumar, C. Kannan, <b>G. Annadurai.</b>	A study of fucoidan from the brown seaweeds <i>Sargassum longifolium</i> and <i>Turbinaria conoides</i>	National conference on Vulnerabilities adaptations of fauna and flora to rapidly changing environment, Department of Zoology, St. Andrews College, Gorakhpur – 273001, UP, India.	2012 Nov21-22,
98.	R. Arunachalam and <b>G. Annadurai.</b>	Nanoporous adsorbent from orange fruit peel for decolorization studies	National conference on Vulnerabilities adaptations of fauna and flora to rapidly changing environment, Department of Zoology, St. Andrews College, Gorakhpur – 273001, UP, India.	2012, Nov21-22,
99.	M. Malini, <b>Dr. G. Annadurai</b> and Dr. G. Alagumuthu	Novel Thin film chitosan Membrane Functionalized with Biocidal Graphene Oxide Nanosheets for Improved Anti-Fouling Properties	National conference on Recent trends and approaches on Ecotechnologies for waste water treatment, Bharathiar university coimbatore.	2014 Jan 20-21,
100.	R.Sindhu, J.Uthayachandirika, M.Revathy, M.Sivakavinesan, M.Ponnanikajamideen and <b>G. Annadurai</b>	<i>Endrilus eugeniae</i> - A Potent Bioremediator In Controlling Industrial Pollution In Soil,	National conference on Recent trends and approaches on Ecotechnologies for waste water treatment	Jan 20-21, 2014.

			Bharathiar university coimbatore	
101.	M.Sivakavinesan, M.Vanaja, M.Malini, M.Ponnanikajamideen, V.Muthumari, J.Uthaya- Chandrika, R.Sindu, M.Revathy, G.Alagumuthu, <b>G.Annadurai</b>	Adsorption of Dye Using Chitosan Nanoparticle studied by Equilibrium Studies and Response Surface Methodology	National conference on National conference on Recent trends and approches on Ecotechnologies for waste water treatment Bharathiar university coimbatore	2014 .Jan 20-21,
102.	J.Uthaya-chandirika, R.Sindhu, M.Revathy, M.Sivakavinesan, M.Malini, M.Ponnanikajamideen, S.Selvakumar and <b>G. Annadurai</b>	Evaluate The Antilithiatic Activity Of <i>Aerva Lanata</i> In <i>In Vitro</i> And <i>In Vivo</i> Study	National conference on J National conference on Recent trends and approches on Ecotechnologies for waste water treatment an Bharathiar university coimbatore	2014.jan 20-21,
103.	M.Ponnanikajamideen, M.Vanaja, M.Sivakavinesan, M.Malini, J.Uthaya- Chandrika, R.Sindu, M.Revathy, S.Selvakumar, V.Muthumariand <b>G.Annadurai</b>	Extracellular synthesis of silver nanoparticles by using soil microorganism <i>Bacillus sp,</i>	National conference on J National conference on Recent trends and approches on Ecotechnologies for waste water treatment Bharathiar university coimbatore	2014. 20-21, jan
104.	Selvakumar.S and <b>G. Annadurai</b>	Isolation, Characterization And Purification Acrylamidase Of Acrylamide Degradation Micro Organisms From Paper Making Industry	National conference on National conference on Recent trends and approches on Ecotechnologies for waste water treatment Bharathiar university coimbatore	2014 .Jan 20-21,
105.	M.Revathy, M.Sivakavinesan, K. Paulkumar, R.Sindhu, J.Uthaya-chandirika, M.Malini, M.Ponnanikajamideen, S.Selvakumar and <b>G. Annadurai</b>	Effective Photocatalytic Decolorization And Adsorption Of Rhodamine Dye Utilizing Chitosan/Tio2 Nanocomposite: Adsorption	National conference on National conference on Recent trends and approches on Ecotechnologies for waste water treatment Bharathiar university	2014. march 20- 21,



		Equilibrium, Kinetics And Response Surface Methodology.	coimbatore	
106.	M.Sivakavinesan, M.Vanaja, M.Malini, M.Ponnanikajamideen, V.Muthumari, J.Uthaya-Chandrika, R.Sindu, M.Revathy, G.Alagumuthu, <b>G.Annadurai</b>	Chitosan Nanoparticle Mediated Adsorption Of Dye Examined By Equilibrium Studies And Response Surface Methodology	National Conference on Recent Advances In Water And Waste Water Treatment (Rawwt – 2014)” on Gandhigram Rural Institute,Dindugal	2014 march 21-22,
107.	M.Ponnanikajamideen, K.Paulkumar, C.Malarkodi, M.Vanaja, M.Malini, M.Sivakavinesan, J.Uthaya-Chandrika, R.Sindu, M.Revathy, S.Selvakumar, <b>G.Annadurai</b>	Microbe-mediated synthesis of antimicrobial semiconductor (CdS) nanoparticles by marine bacteria	National Conference on Recent Advances In Water And Waste Water Treatment (Rawwt – 2014)” on Gandhigram Rural Institute,Dindugal	21-22,2014
108.	J.Uthaya-Chandrika, R.Sindu, M.Revathy, M.Malini, M.Sivakavinesan, M.Ponnanikajamideen, S.Selvakumar <b>G.Annadurai</b>	Copper removal from water/wastewater using Adsorbents—A critical review	National Conference on Recent Advances In Water And Waste Water Treatment (Rawwt – 2014)” on Gandhigram Rural Institute, Dindugal.	21-22,2014
109.	R.Sindu, J.Uthaya-Chandrika, M.Revathy, M.Sivakavinesan, M.Vanaja, M.Malini, M.Ponnanikajamideen, S.Selvakumar, V.Muthumari, <b>G.Annadurai</b>	Evaluation of the alkali modified activated carbon as a potential Adsorbent for the remotion of metals from acid mine drainage	National Conference on Recent Advances In Water And Waste Water Treatment (Rawwt – 2014)” on Gandhigram Rural Institute, Dindugal.	21-22,2014
110.	M. Malini, Dr. <b>G. Annadurai</b> *and Dr. G. Alagumuthu	AmphiphilicThiol Functional Linker Mediated Sustainable Anti-Biofouling Ultrafiltration Nanocomposite Comprising a Copper Nanoparticles and Chitosan Membrane	National Conference on Recent Advances In Water And Waste Water Treatment (Rawwt – 2014)” on Gandhigram Rural Institute, Dindugal.	21-22,2014
111.	S.Selvakumar, R.Sindu, J.Uthaya-Chandrika,	Isolation, Characterization	National Conference on Recent Advances	21-22,2014

	M.Revathy, M.Sivakavinesan, M.Vanaja, M.Malini, M.Ponnanikajamideen, V.Muthumari, <b>G.Annadurai</b>	And Purification Of Acrylamidase Byacrylamide Degradation Micro Organisms From Paper Making Industry	In Water And Waste Water Treatment (Rawwt – 2014)” on Gandhigram Rural Institute, Dindugal.	
112.	M.Malini, M.Sivakavinesa' M.Ponnanikajamideen, M.Revathy, J.Uthaya- Chandirika, R.Sindhu, S.Selvakumar, G.Alagumuthu and <b>G.Annadurai</b>	Dual Functionality of Antimicrobial and Antifouling of Chitosan/Salicylate Films	National conference on Application of the Derivatives of chitin and chitosan (ADCC- 2014) Gandhigram Rural Institute, Dindugal.	22 <sup>nd</sup> & 23 <sup>rd</sup> August 2014
113.	M.Sivakavinesan, M.Vanaja, M.Malini, M.Ponnanikajamideen, V.Muthumari, J.Uthaya-Chandrika, R.Sindu, M.Revathy, S.Selvakumar, G.Alagumuthu, <b>G.Annadurai*</b>	chitosan and chitosan nanoparticle as optimization agents for preservation of pomegranate juice by response surface methodology	National conference on Application of the Derivatives of chitin and chitosan (ADCC- 2014) Gandhigram Rural Institute, Dindugal.	22 <sup>nd</sup> & 23 <sup>rd</sup> August 2014
114.	M.Revathy, T.SureshK. Paulkumar,R.Sindhu, J.Uthaya-chandirika, M.Malini,M.VanajaM.P onnanikajamideen, S.Selvakumar and <b>G.</b> <b>Annadurai</b>	Synthesis, Characterization And Photocatalytic Decolourization Of Malachite Green Using Chitosan Based Tio2 Nanocomposite	National conference on Application of the Derivatives of chitin and chitosan (ADCC- 2014) Gandhigram Rural Institute, Dindugal.	22 <sup>nd</sup> & 23 <sup>rd</sup> August 2014
115.	M. Ponnanikajamideen, K. Paulkumar, M. Vanaja, M. Sivakavinesan, M. Malini, R. Sindhu, M. Revathy, J. Chandrika, S. Selvakumar, M.Muthumari, and <b>Dr.</b> <b>G. Annadurai</b>	Chitosan nanoparticles act as an effective oral drug delivery system for Flurbiprofen drug	National conference on Application of the Derivatives of chitin and chitosan (ADCC- 2014) Gandhigram Rural Institute, Dindugal.	22 <sup>nd</sup> & 23 <sup>rd</sup> August 2014
116.	J.Uthaya- chandirikaR.Sindhu, , M.Revathy, M.Malini, M.Sivakavinesan, M.PonnanikajamideenS, Selvakumar and <b>G.</b> <b>Annadurai</b>	In Vitro Evaluation In Antilithiatic Activity Of <i>Tridaxprocumbens</i> And <i>Aervalanata</i> Extract Loading Chitosan Nanoparticle	National conference on Application of the Derivatives of chitin and chitosan (ADCC- 2014) Gandhigram Rural Institute, Dindugal.	22 <sup>nd</sup> & 23 <sup>rd</sup> August 2014
117.	R.Sindhu, J.Uthaya- chandirika, M.Revathy, M.Sivakavinesan,	Evolution of new strategies for control of diabetic	National conference on Application of the Derivatives of chitin	22 <sup>nd</sup> & 23 <sup>rd</sup> August 2014

	M.Malini, M.Ponnanikajamideen S.Selva kumar and <b>G. Annadurai</b>	ulcer using Micronanospears conjugated chitosan	and chitosan (ADCC-2014) Gandhigram Rural Institute, Dindugal.	
118.	M.Malini <sup>1</sup> , <sup>2</sup> ,M.Sivakavinesan 'M.Ponnanikajamideen M.Revathy, J.Uthaya- Chandirika, R.Sindhu, S.Selvakumar, G.Alagumuthu and <b>G.Annadurai,</b>	Biosynthesis TiO <sub>2</sub> nanoparticles in a polyether-block-polyamide copolymer towards antimicrobial and antifouling membranes	International conference on Green technology for Environmental pollution and control National institute of technology, Tiruchirappalli.	27 <sup>th</sup> -27 <sup>th</sup> September 2014,
119.	M.Sivakavinesan, M.Vanaja, M.Malini, M.Ponnanikajamideen, V.Muthumari, J.Uthaya- Chandrika, R.Sindhu, M.Revathy, G.Alagumuthu, <b>G.Annadurai</b>	Response Surface Methodology and Equilibrium Studies on Adsorption of Dye Using Chitosan Nanoparticle	International conference on Green technology for Environmental pollution and control National institute of technology, Tiruchirappalli.	27 <sup>th</sup> -27 <sup>th</sup> September 2014,
120.	M.Revathy, T.suresh K. Paulkumar,R.Sindhu, J.Uthaya-chandirika, M.Malini,M.Ponnanikaj amideen, S. Selva Kumar and <b>G. Annadurai</b>	Synthesis, characterization and photocatalytic decolourization of fluorescent dye rhodamine 6g by utilizing chitosan/tio <sub>2</sub> nanocomposites, adsorption isotherms, kinetics and response surface methodolgy.	International conference on Green technology for Environmental pollution and control National institute of technology, Tiruchirappalli.	27 <sup>th</sup> -27 <sup>th</sup> September 2014,
121.	M. Ponnanikajamideen, K. Paulkumar, M.Vanaja, M.Sivakavinesan, M. Malini, R. Sindhu, M. Revathy, J. Chandrika, S. Selvakumar and <b>Dr. G. Annadurai</b>	In vitro study of chitosan nanoparticles for an oral drug delivery	International conference on Green technology for Environmental pollution and control National institute of technology, Tiruchirappalli.	27 <sup>th</sup> -27 <sup>th</sup> September 2014,
122.	J.Uthaya-chandirika, R.Sindhu, ,M.Revathy, M.Malini, M.Sivakavinesan, M.PonnanikajamideenS. Selvakumar and <b>G. Annadurai</b>	Phosphorus Removal From Wastewater Via Environmentally Friendly In Nanotechnologies	International conference on Green technology for Environmental pollution and control National institute of technology, Tiruchirappalli.	27 <sup>th</sup> -27 <sup>th</sup> September 2014,
123.	R.Sindhu, J.Uthaya- chandirika, M.Revathy, M.Sivakavinesan,	Deduction and conjugation of anti-ultraviolet	International conference on Green technology for	27 <sup>th</sup> -27 <sup>th</sup> September 2014

	M.Malini, M.Ponnanikajamideen S.Selva kumar and <b>G. Annadurai</b>	properties of BSA-conjugated zinc oxide nanoparticles for biological applications	Environmental pollution and control, National institute of technology, Tiruchirappalli.	
124.	S.Selvakumar,R.Sindhu, J.Uthaya-chandirika, M.Revathy, M.Sivakavinesan, M.Malini, M.Ponnanikajamideen and <b>G. Annadurai</b>	Isolation, Characterization And Purification Acrylamidase Of Acrylamide Degradation Micro Organisms From Paper Making Industry	International conference on Green technology for Environmental pollution and control National institute of technology, Tiruchirappalli.	27 <sup>th</sup> -27 <sup>th</sup> September 2014,
125.	M.Malini, M.Vanaja, M.Sivakavinesan, M.Ponnanikajamideen, J.Uthaya-Chandirika, R.Sindhu, G.Alagumuthu and <b>G. Annadurai,</b>	Development of Environment-Assisted AgNPs by <i>Nyctanthes arbour-tristis</i> : Inhibition potential accustomed to water purification,	National seminar on <i>Water Resources Development and Sustainable Management</i> , Bharathiar University, Coimbatore and JSS University, Mysuru,	March 23, 2015
126.	S.Selvakumar, M.Vanaja, M.Malini, M.Sivakavinesan, M.Ponnanikajamideen, J.Uthaya-Chandirika, R.Sindhu, M.Revathy and <b>G. Annadurai,</b>	Controlled pore structure modification of diatoms ultrathin film for drinking water purification	National seminar on <i>Water Resources Development and Sustainable Management</i> , Bharathiar University, Coimbatore and JSS University, Mysuru,	March 23, 2015
127.	M.Sivakavinesan, M.Vanaja, M.Malini, G.Alagumuthu, and <b>G. Annadurai,</b>	Photocatalytic degradation of dyestuff from aqueous solution using gold nanoparticles	National seminar on <i>Water Resources Development and Sustainable Management</i> , Bharathiar University, Coimbatore and JSS University, Mysuru.	March 23, 2015
128.	M.Sivakavinesan, M.Vanaja, L.S.Sidjui, G.Alagumuthu, and <b>G. Annadurai,</b>	Response Surface Methodology and batch equilibrium studies on adsorption of Malachite green dye using chitosan nanoparticle,	National seminar on <i>Water Resources Development and Sustainable Management</i> , Bharathiar University, Coimbatore and JSS University, Mysuru.	March 23, 2015
129.	M.Ponnanikajamideen , S.Rajeshkumar, <b>G. Annadurai,</b>	Microbe mediated synthesis of antimicrobial semiconductor (Au) Nanoparticle marine bacteria	National seminar on <i>Water Resources Development and Sustainable Management</i> , Bharathiar University,	March 23, 2015

			Coimbatore and JSS University, Mysuru,	
130.	J.Uthaya Chandirika, <b>G.Annadurai</b>	Adsorption of Reactive dye onto chitosan from aqueous solution	National seminar on <i>Water Resources Development and Sustainable Management</i> , Bharathiar University, Coimbatore and JSS University, Mysuru,	March 23, 2015
131.	<b>Dr.G.Annadurai</b>	Resource Person and delivered a Keynote address in Nanotechnology in Biological Science	NATIONAL CONFERENCE ON BIORESOURCES CONSERVATION, UTILIZATION AND FUTURE PROSPECTS IN The gandhigram Rural Institute – Deemed University, Gandhigram – 624 302.	16-17 Feb-2017.
132.	<b>Dr.G.Annadurai</b>	Technical Section-I: Introduction to Nanoscience.	PG Department of Zoology and Research centre, Sri parasakthi College for Women, Courtallam – 627 802.	23 March- 2017
133.	<b>Dr.G.Annadurai</b>	Technical Section-I: Biological synthesis of Nanomaterials and its Application. (Under QIP Programme)	Advanced in Biological System and Material Science in Nano World. Department of Chemistry, Coimbatore Institute of Technology, Coimbatore – 641 014.	17 to 23 April - 2017