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Present Position

Professor, Department of Chemical Engineering, Alagappa College of Technology, Anna University, Chennai from June-2015.

Present Additional Responsibility

- > Member, POSH, Anna University, Chennai from June-2018.
- > Deputy Warden, Alagappa College of Technology, Anna University, Chennai.
- > IQAC Campus co-ordinator, Alagappa College of Technology, Anna University, Chennai.

Previous Positions

- > Teaching Research Associate, Department of Chemical Engineering, Alagappa College of Technology, Anna University, Chennai during January-2001 and February-2005.
- > Associate professor, Department of Chemical Engineering, Alagappa College of Technology, Anna University, Chennai.
- > Assistant Professor, Department of Chemical Engineering, Alagappa College of Technology, Anna University, Chennai.

Previous Additional Responsibility

- > , , Anna University, Chennai.
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Other Employment

- Research Fellow, CLRI for 4 years.

Degree

- ❖ M.Tech. in BIO - TECHNOLOGY , Anna university, Anna University (1989 - 1991).

Research Degree

- ❖ Ph.D. in Chemical engineering from Faculty of Dr.K.Balu, Anna University, Anna University (2001 - 2005).
Title: STUDIES ON DECOLORIZATION USING THE WHITE ROT FUNGUS
Phanerochaete chrysosporium .

Area of Specialisation

- Bioprocess Engineering
- Chemical Process Calculations
- Environmental Biotechnology

Membership in Professional Organization

- Life member IIChe
- Life member Indian Science congress

Research Guidance

Number of Ph.D Scholars Guided	: 6
Number of Ph.D Scholars Guiding	: 6
Number of M.S (By Research) Students Guided	: 2
Number of M.E./ M.Tech. Projects Guided	: 24
Number of M.S (By Research) Students Guiding as Joint-Supervisor	: 2

Papers Published in Journals

Research Papers Published in International Journals	: 38
Research Papers Published in National Journals	: 2

1. I. Regupathi, A. Arunagiri, T. Murugesan, " Decolorization studies of synthetic dyes using Phanerochaete chrysosporium and their kinetics ", Process Biochemistry, published by Elsevier . Vol. 40, Issue 10, pp. 3337-3345 (2005).

2. K.Balu, " Entrapment of white-rot fungus *Phanerochaete chrysosporium* in calcium alginate beads- its Preparation and kinetics for decolorization of the dye Basic green ", *Biotechnology an Indian journal*, published by Trade Science Inc. Vol. 2, Issue 1, (2008).
3. R. Lavanya, "Kinetic model for substrate utilization and antibiotic production using immobilized Pencillin G-acylase", *Journal of Biotechnology*, published by Elsevier science . Vol. 136, pp. 493 (2008).
4. V. Sridevi, K. Kalaivani and Mohan Raj, " Electrochemical decolorization of the dye Acid orange ", *Desalination and Water Treatment*, published by Taylor and Francis. Vol. 7, pp. 6-11 (2009).
5. V. Sridevi, K. Kalaivani, "Electrochemical oxidation for the treatment of textile industry wastewater", *Bioresource Technology*, published by Elsevier . Vol. 100, Issue 2, pp. 987-990 (2009).
6. K.Kalaivani, R.Lavanya, "A Case Study of Biomedical Waste Management in Hospitals ", *International Journal of Health Science*, published by Scientific publications by Qassim University. Vol. 1, Issue 1, pp. 82-88 (2009).
7. V. Sridevi, K. Kalaivani, "Kinetic Study on decolorization of the dye Acid Orange Using the Fungus *Phanerochate chrysosporium*", *Modern Applied sciences*, published by Canadian Center of Science and Education. Vol. 4, pp. 38-47 (2009).
8. K.C.Praveen, K.V.Radha, N.Balasubramanian, "Electrochemical treatment of plating effluent-Kinetics and statistical modelling", *Arch. Environ. Sci*, Vol. 5, pp. 17-24 (2011).
9. C.Arun, " Removal of organic from metalworking fluids (MWFs) by batch electrocoagulation process using iron electrodes", *Chemical Technology- An Indian Journal*, published by Trade Science Inc. Vol. 6, Issue 4, (2011).
10. C.Arun, "Removal Of Organics From Metalworking Fluids (MWFs) By Batch Electrocoagulation Process Using Iron Electrodes ", *Chemical Technology An Indian Journal*, published by Trade Science Inc. Vol. 6, Issue 4, (2011).
11. N.Balasubramanian, "Electrochemical treatment of plating effluent-Kinetics and statistical modelling", *Arch. Environ. Sci*, Vol. 5, pp. 17-24 (2011).
12. Lakshmanan. D. and Radha. K.V, "Spectrophotometric determination of lovastatin in pure and β -hydroxyacid form: Comparison studies with that of commercial tablet", *Journal of Pharmacy research* , Vol. 5, pp. 4902-4905 (2012).
13. "An effective quantitative estimation of Lovastatin from *Pleurotus ostreatus* using UV AND HPLC", *International Journal of Pharmacy and Pharmaceutical Science Research* , published by Innovare Academic Science. Vol. 4, pp. 4902-4905 (2012).
14. "Production of lovastatin from *Pleurotus ostreatus* and comparison with Commercial tablets", *International Journal of Pharmacy and Pharmaceutical Science Research* , published by Elsevier . Vol. 2, pp. 53-56 (2012).
15. "Biosynthesis and characterization of silver nanoparticles using enterobacter aerogenes: A kinetic approach", *Digest journal of nanomaterial and biostructure*, published by Forum of chalcogeniders. Vol. 7, pp. 1007-1014 (2012).

16. Suresh S and K.V.Radha, "Production and purification of phytase by solid state fermentation from *Rhizopus oligosporu* MTCC 556 using agricultural waste ", *J.Biotechnology Biomaterials*, Vol. 2, Issue 6, pp. 284 (2012).
17. V.Thamilselvi and K.V.Radha, "Comparative study for biosynthesis of silver nanoparticles from *Pseudomonas putida* NCIM 2650 ", *Digest journal of nanomaterials and biostructures* , Vol. 8, Issue 3, pp. 1101-1111 (2013).
18. S.Vanitha, S.Suresh, "Production and Optimization of phytase from *Rhizopus oligosporous* using Agro residues by solid state fermentation", *Middle East Journal of Scientific Research* , published by International Digital Organization for Scientific . Vol. 17, Issue 12, pp. 1839-1845 (2013).
19. S.Sabarunisha Begum and K.V.Radha, " Biodegradation kinetic studies on phenol in internal draft tube (inverse fluidized bed) biofilm reactor using *Pseudomonas fluorescens*: Performance evaluation of biofilm and biomass characteristics", *Bioremediation Journal* , published by Taylor and Francis. Vol. 17, Issue 4, pp. 264-277 (2013).
20. "Lovastatin production using *Pleurotus ostreatus* and its medicinal properties analysis by docking", *African Journal of Pharmacy and Pharmacology* , published by Academic Journal. Vol. 7, Issue 28, pp. 1974-1986 (2013).
21. "A Review: Lovastalin Production and applications", *Asian Journal of Pharmaceutical and Clinical Research*, published by Elsevier . Vol. 6, Issue 3, pp. 21-26 (2013).
22. "Comparative study for biosynthesis of silver nanoparticles from *Pseudomonas putida* NCIM 2650", *Asian Journal of microbiology biotechnology and Environmental Science*, published by EM International . Vol. 15, Issue 4, pp. 717-723 (2013).
23. "SYNTHESIS OF SILVER NANOPARTICLES FROM *PSEUDOMONAS PUTIDA* NCIM 2650 IN SILVER NITRATE SUPPLEMENTED GROWTH MEDIUM AND OPTIMIZATION USING RESPONSE SURFACE METHODOLOGY ", *Digest journal of nanomaterial and biostructure*, published by Forum of chalcogeniders. Vol. 8, Issue 3, pp. 1101-1111 (2013).
24. "Production of biodiesel from mustard oil its performance and emission characterization on internal combustion engine", *Advanced Engineering and Applied Sciences: An International Journal* , published by Universal Research Publication. Vol. 3, Issue 3, pp. 37-42 (2013).
25. Pillaibakkam Bahukudumbi Sindhuja, Aswathi Sudalai, "Polyhydroxybutyrate production accompanied by the effective reduction of chemical oxygen demand (COD) and biological oxygen demand (BOD) from industrial effluent", *The Korean journal of chemical engineering*, published by Springer. Vol. 30, Issue 12, pp. 2191-2196 (2013).
26. Sabarunisha Begum and K.V. Radha, " Hydrodynamic behavior of inverse fluidized bed biofilm reactor for phenol biodegradation using *Pseudomonas fluorescens*", *Korean Journal of Chemical Engineering* , published by Spinger. Vol. 31, Issue 3, pp. 436-445 (2014).
27. S. Swapna Priya and K. V. Radha, " Batch adsorption studies of chromium(III) onto commercial grade granular activated carbon: Equilibrium and Kinetic Studies", *International Journal of Engineering Development and Research (IJEDR)*,, published by IJEDR. Vol. 1, Issue 125, pp. 125 - 129 (2014).

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28. Swapna Priya and K.V. Radha, " Brief Review Of Spectrophotometric Methods For The Detection Of Tetracycline Antibiotics", International Journal of Pharmacy and Pharmaceutical Sciences, published by Inovare Academic . Vol. 6, Issue 9, pp. 48-51 (2014).
 29. S. Swapna Priya, K.V.Radha and Kheerthana Duraivelan, " Batch biosorption studies of tetracycline hydrochloride onto unmodified rice straw: Equilibrium, Kinetic and Thermodynamic studies", Int.J. ChemTech Res, published by sphinx knowledge house . Vol. 6, Issue 11, pp. 4709-4721 (2014).
 30. S. Swapna Priya and K. V. Radha, " Equilibrium, isotherm, kinetic and thermodynamic adsorption studies of tetracycline hydrochloride onto commercial grade granular activated carbon", Int J Pharm Pharm Sci, published by Elsevier. Vol. 7, Issue 1, pp. 42-51 (2014).
 31. " Preparation and characterization of native poly(3- hydroxybutyrate) microsphere from Bacillus subtilis MTCC 9763", Journal of bioactive and compatible polymer, published by Sage. Vol. 29, Issue 2, pp. 152-164 (2014).
 32. Dr.T.Arun, "Antibacterial Activity and Phytochemical screening of Clitoria ternata Linn. Against Proteus mirabilis from Urinary Tract Infected patients.", World Journal of Pharmaceutical Research, Vol. 13, Issue 3, pp. 4351-4366 (2014).
 33. R. Muralidharan and K.V.Radha, " Growth and biological production of polyhydroxy butyrate (PHB) by bacillus megaterium MTCC 8075 ", Journal of Chemical, Biological and Physical Sciences, published by JCPBAT. Vol. 4, Issue 2, pp. . 1271-1279 (2014).
 34. S. Sabarunisha Begum , K.V. Radha, " Effect of gas–liquid mass transfer coefficient and liquid–solid mass transfer resistance on phenol biodegradation in three phase inverse fluidized bed biofilm reactor", Journal of Environmental Chemical Engineering, published by Elsevier. Vol. 2, Issue 4, pp. 2321-2326 (2014).
 35. S Saranya and K.V. Radha, " Review of Nanobiopolymers for Controlled Drug Delivery ", Polymer-Plastics Technology and Engineering, published by Taylor and Francis. Vol. 53, Issue 15, pp. 1636-1646 (2014).
 36. K.V. Radha, "Gas-liquid mass transfer studies in inverse fluidized bed biofilm reactor for the biodegradation of industrial effluent rich in phenolic compounds", Environmental Progress & Sustainable Energy , published by Wiley . (2015).
 37. P. Thyriyalakshmi and K. V. Radha, " Synthesis of dimethyl carbonate (DMC) based biodegradable nitrogen mustard ionic carbonate (NMIC) nanoparticles", RSC Adv, published by RSC. Vol. 5, Issue 14, pp. 10560-10566. (2015).
 38. R. Muralidharan and K.V.Radha, " A kinetic study of polyhydroxybutyrate production on nitrogen limited medium using Bacillus subtilis MTCC 9763 through a two stage cultivation strategy", Journal of Environmental Biology, published by Triveni. Vol. 36, Issue 3, pp. 537-542 (2015).
 39. S. Sabarunisha Begum and K.V. Radha, " Effect of hydrodynamic characteristics on the performance of biofilm for degrading phenol in inverse fluidized bed biofilm reactor", Desalination and Water Treatment, published by Taylor and Francis. Vol. 55, Issue 8, pp. 2023-2033 (2015).

40. S. Suresh and K. V. Radha, " Effect of a Mixed Substrate on Phytase Production by *Rhizopus oligosporus* MTCC 556 Using Solid State Fermentation and Determination of Dephytinization Activities in Food Grains", *Food Sci. Biotechnol*, published by Springer . Vol. 24, Issue 2, pp. 551-559 (2015).

Papers Presented in Programmes

Research Papers Presented in International Programmes : 8

Research Papers Presented in National Programmes : 1

1. K.V.Radha, "Production of bioplastics (PHB) from industrial effluent using single and two stage batch culture studies" presented in a International level conference on International conference in Bioengineering, organised by Rajalakshmi Engineering College, India .
2. Dr.K.V.Radha, "Bioplastics in industrial effluent treatment" presented in a International level conference on Innovation competition , organised by CTDT, Anna University, India .
3. D.Lakshmanan, K.V.Radha, "Laccase production from *Pleurotus ostriostus* for decolourization and degradation studies" presented in a National level conference on National conference on recent trends in Chemical, Energy and Environmental Engineering (CEEE), organised by SSN College of Engineering, India .
4. K.V.Radha, "Biofilm performance and biomass characteristics of *Pseudomonas fluorescens* for biodegradation of phenol in inverse fluidized bed biofilm reactor" presented in a International level conference on International conference on Biomaterials Implant Devices, organised by Rajalakshmi Engineering College, India .
5. M.Karthikeyan and K.V.Radha, "Remediation of oil spills using biosurfactant obtained from *Pseudomonas putida*" presented in a International level conference on World congress on Biotechnology, India .
6. Mohan Raj. S, Radha .K.V, "Electrochemical oxidation for the treatment of textile industry wastewater" presented in a International level conference on 8th IWA specialized conference on small water and wastewater systems, India from 06-Feb-2008 to 09-Feb-2008.
7. C.Arun, "7. Recycling of exposed photographic X-ray films and recovery of silver using Bromelain" presented in a International level conference on Fifth International Conference on Waste management, Estonia from 12-Jul-2010 to 14-Jul-2010.
8. M.Karthikeyan and K.V.Radha, "Biosynthesis and characterization of silver nanoparticles using *Enterobacter aerogenes* for water treatment" presented in a International level conference on IWA-Nano International conference, switzerland from 15-Apr-2011 to 18-Mar-2011.
9. C.Karthik, "Novel production of biofuels from neem oil" presented in a International level conference on World renewable energy congress, Sweden from 08-May-2011 to 13-May-2011.

Programme Organized

1. Organizing Secretary, National level conference on "National conference on Chemical Engineering processes in Environmental Applications" from 29-Mar-2012 to 30-Mar-2012.

2. Organizing Secretary, National level conference on "NATIONAL CONFERENCE ON RECENT TRENDS IN CHEMICAL ENGINEERING (RTCE -2014)" from 25-Feb-2014 to 26-Feb-2014.
3. Coordinator, National level workshop on "Two-days NAAC Awareness Seminar / Training Programme on Quality System in Higher Education" from 29-Sep-2016 to 30-Nov-2016.
4. Coordinator, National level seminar on "Advances in Biofuels and Bioenergy" from 24-Oct-2016 to 25-Oct-2016.

Programme Attended

1. Attended a International level Short Course on "course on C and C+ +" organized by Anna University, India.
2. Attended a International level Short Course on "Modern Teaching Competences" organized by Anna University, India from 05-Aug-2002 to 19-Aug-2002.
3. Attended a International level Short Course on "Applications of Chemical Engineering Principles for Biotechnology" organized by Anna University, India from 14-Nov-2005 to 03-Dec-2005.
4. Attended a International level seminar on "Waste Management" organized by Anna University, India from 09-Feb-2006.
5. Participated in a National level workshop on "Effective Energy management through Energy Audit" organized by Anna University, India from 24-Feb-2006 to 26-Feb-2006.
6. Participated in a National level conference on "Applications of bioprocess Engineering in Industries" organized by JNTU college of Engineering, India from 16-Mar-2007.
7. Attended a International level seminar on "Process simulation in Chemical Industries" organized by Anna University, India from 27-Oct-2007.
8. Participated in a International level workshop on "Entrepreneurship Development" organized by Anna University, India from 03-Nov-2007.
9. Participated in a International level workshop on "Digital Skills" organized by Anna University, India from 29-Jan-2008 to 31-Jan-2008.
10. Attended a International level seminar on "Gender just work culture" organized by Anna University, India from 25-Feb-2008 to 26-Feb-2008.
11. Participated in a International level workshop on "Advanced functional Nanomaterials" organized by Anna University, India from 21-Feb-2009 to 24-Feb-2009.
12. Participated in a National level workshop on "Emerging needs and application of biomechanics in sports and games" organized by YMCA college of physical education , India from 29-Mar-2010 to 30-Mar-2010.

13. Participated in a International level workshop on "Indo-Europe workshop on recent developments in membrane technology for industrial applications" organized by Anna Univeristy, India from 10-Feb-2011 to 11-Feb-2011.
14. Participated in a International level workshop on "Faculty Development Training Programme on Heat Transfer" organized by Anna University, India from 01-Jun-2012 to 08-Jun-2012.
15. Participated in a International level workshop on "Teaching skills and smart class room tools at center for faculty development" organized by Anna Univeristy, India from 07-Jan-2013.
16. Attended a International level seminar on "Faculty Development Training Programme on Environmental science and Engineering" organized by Anna University, India from 11-Dec-2013 to 18-Dec-2013.
17. Participated in a National level conference on "Biochemical Engineering and Biotechnology for sustainable Environment" organized by Annamalai University, India from 03-Apr-2014 to 04-Apr-2015.
18. Attended a International level Short Course on "short term course on new materials their characterization and applications " organized by Anna University, India from 09-Oct-2014 to 10-Oct-2014.
19. Participated in a International level conference on "International Conference on Engineering & Physical Sciences " organized by International Multidisciplinary Research Foundation, India from 13-Feb-2015 to 14-Feb-2015.
20. Attended a International level Short Course on "Urgent need for bringing in quality in the system of Higher Education " organized by Anna University, India from 18-Feb-2015 to 19-Feb-2015.
21. Participated in a International level workshop on "Author workshop " organized by Anna University, India from 17-Mar-2015.
22. Participated in a International level workshop on "Author workshop on Book/Journal Publishing " organized by Anna University, India from 27-Sep-2015.
23. Attended a International level Short Course on "The state of the Art-analytical Instruments" organized by Anna University, India from 26-Oct-2015 to 30-Oct-2015.
24. Attended a International level seminar on "Polymer Processing and its application to packaging using nano materials " organized by Anna University, India from 02-Nov-2015.
25. Participated in a International level workshop on "Third International workshop on Advanced Functional Nanomaterials" organized by Anna University, India from 16-Dec-2015 to 18-Dec-2015.
26. Participated in a International level workshop on "Effective Teaching" organized by Anna University, India from 16-Mar-2016.

Honours

1. "Best Paper" given by CIT, coimbatore from India (2012).
2. "Best Paper" given by SSN College of engineering, Kalavakkam, Chennai from India (2012).
3. "Best Innovation" given by CTDT, Anna University , Chennai from India (2013).
4. "Best Paper" given by Rajalakshmi Engineering college from India (2013).
5. "Best Paper" given by SSN College of Engineering and Technology from India (2016).
6. "Best Paper" given by SSN College of Engineering and Technology from India (2016).
7. "Best Paper" given by SSN College of Engineering and Technology from India (2016).

Patents Filed

1. Filed patent rights for Synthesis of FMPC and preparation of Chitosan-FMPC in India. File number: 5144 Filed Date: 14-Oct-2014.
2. Filed patent rights for Corncob adsorbent for wastewater treatment in India. File number: 5633 Filed Date: 17-Mar-2016.

Invited Lectures

1. Delivered a Lecture on "challenges in Biochemical Engineering and Biotechnology for sustainable Environment " in 3rd National conference organized by Annamalai University, Chidambaram, Tamil Nadu (03-Apr-2014).

Extension & Outreach Programme

1. Coordinator, Faculty Development Programme, participated by Faculties from Affiliated and Anna University Departments and funded by Centre for Faculty Development, Anna University at Department of chemical Engineering during 18-Jan-2016 and 25-Jan-2016. No. of participants: 26.