



Dr. H. GURUMALLESH PRABU
Professor

Contact

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Academic Qualifications: M.Sc., M.Phil., Ph.D.

Teaching Experience: 30 Years

Research Experience: 28 Years

Additional Responsibilities

1. Controller of Examinations i/c (from 26.11.2015 to till date)
2. Deputy Co-ordinator - UGC-SAP Level II of the Department (2014-2018)
3. Member as Special Invitee - Standing Committee on Academic Affairs (since 2015)
4. Member: NAAC Stearing Committee (since 2015)
5. Member: RUSA Monitoring Team of the University (since 2015)
6. Member: University Students Calendar Committee (since 2014)
7. Member: University Web Committee (since 2015)
8. Served as Special Officer - Planning & Development (20.02.2014 to 08.03.2016)
9. Served as Deputy Co-ordinator - UGC SAP Level I of the Department (2007-2012)
10. Served as Member - Research Advisory Committee (2015-16)
11. Served as Member - AURF Committee (2014-2016)
12. Served as Member – Editorial Board, Azhagu News letter (2012-15).
13. Served as Member – ALUTES programs – (2012-15)

14. Served as Coordinator, Environmental Awareness Club (2010-14)
15. Served as Coordinator, Career Guidance & Counselling Cell (2012-14)
16. Served as Top official in Associations: Treasurer-ALUTA (2005-07), Treasurer-ALUFA (2010-12), President-ALUFA (2012-14).

Areas of Research

Industrial Chemistry, Materials Chemistry, Textile Chemistry, Environmental Chemistry, Electroanalytical Chemistry.

Research Supervision / Guidance

Program of Study		Completed	Ongoing
Research	Ph.D.	17	3
	M.Phil.	39	1
Project	PG	103	3
	PG Diploma	4	0

Publications

International		National		Others
Journals	Conferences	Journals	Conferences	Books / Chapters
73	41	28	120	Books-2, Chapters-7

h-index : 13
i10 index : 16
Total Citations : 464

Funded Research Projects

Completed Projects

S. No	Agency	Period		Project Title	Budget (Rs. Lakhs)
		From	To		
1	UGC, New Delhi	1995	1997	Studies on non-conventional low cost adsorbents for industrial wastewater treatment	0.10
2	AICTE, New Delhi	1999	2001	Development of eco-friendly methods for textile industry wet-processing and recycling of water	8.00
3	DRDO, New Delhi	2000	2003	Development of new procedures for the determination of explosives at trace levels by adsorptive SW stripping voltammetry	10.8
4	Alagappa University	2009	2010	Study of silver nano particle for functionality in textile materials	0.64
5	UGC, New Delhi	2009	2012	Sonophotochemical degradation of dyes catalyzed by different polyoxometalates immobilized on TiO ₂ nanoparticles	6.59

Consultancy Projects

S. No	Agency	Period		Project Title	Budget (Rs. lakhs)
		From	To		
1	BHEL, Trichy	2011	2013	Development and Performance Evaluation of Conducting Polymer based Primer Paints for Boiler Structures	3.80

Patents

1. No. 2196/CHE/2013, Facemask material with improved bacterial filtration efficiency, H.Gurumallesh Prabu, S.Ananda babu, S.Ravikumar, filed at GOI Patent Office, Intellectual Property, Chennai on 20.05.2013

Distinctive Achievements / Awards

1. Rank Holder in M.Sc. Examinations, Bharathidasan University, Trichy (1987)
2. International award - IAEWP-USA and IIEE-New Delhi (1997)
3. Best research paper Award presented in a symposium on pollution control by physico-chemical methods, Regional Engineering College, Trichy (1998)
4. Endeavour Research Fellowship Award by Australian Government (2007)
5. Shiksha Rattan Puraskar Award - India International Friendship Soc. (2010)
6. Best research paper Award presented in seminar on Application of Nanotechnology in current agricultural practices, Dr.Zahir Husain College, Ilayankudi (2011)
7. DST-Travel Grant to participate in International Conference at USA (2013)

Events organized in leading roles

Number of Seminars / Conferences / Workshops / Events organized: 31

1. Advances in Electrochemical Science and Technology (Member), 19th April 1991
2. National Seminar on Recent Trends in Electrochemical Science (Member), 23rd Dec. 1994.
3. Seminar on Textiles, Dyes and Chemicals in India (Member), 25th April 1995
4. National Seminar on Emerging Trends in Electrochemical, Textile and Polymer Industries (Member), 22-23rd April 1996
5. National Seminar on Recent Trends in Materials Science (Member), 3rd May 1999
6. Environmental friendly textile processing, (AVVM Sri Pushpam College, Poondi), (Member), 19-20th Feb. 2004
7. ENVIRON-TECH 2004 National workshop on Recent Trends in Pollution Control and Environmental Conservation, Bannariamman Institute of Technology, Sathyamangalam, (Member), 15-16th July 2004.

8. National Conference on Application Oriented Nanomaterials, (Member), 10-11th Mar 2005
9. Village Placement Program (VPP) at O.Siruvayal village, 25th Sept. 2005
10. National seminar on Recent Advances in Textile and Electrochemical Sciences, Alagappa University (RATES 2007) (Member), 1-2nd June 2007
11. National Workshop on Green Chemistry, Alagappa University, Karaikudi, (Convener), 31st March 2008
12. National seminar on Recent Advances in Textile and Electrochemical Sciences, Alagappa University (RATES 2008). (Member), 19-20th Dec 2008
13. Green Process Techniques in Industrial Applications (GREPTIA-2009), Alagappa University, (Member), 20-21st Mar. 2009
14. 9th Tamil Science Congress, Alagappa University, Karaikudi (Co-Ordinator in the Chemistry wing), 11-13th Sep. 2009
15. National seminar on Recent Advances in Textile and Electrochemical Sciences, Alagappa University (RATES 2009). (Member), 4-5th Dec 2009
16. Essay / painting competition on CLIMATE CHANGE (Co-Ordinator), 16th Mar 2010
17. Mangrove plantation at Thondi campus (Co-Ordinator), 24th Mar 2010
18. International year of Chemistry (IYC2011) Programme (Convener), 28th Feb 2011
19. Programme on environmental Awareness (with a movie) (Co-Ordinator), 22nd Mar 2011
20. EARTH HOUR conducted by SWITCH OFF program at University (Co-Ordinator), 26th Mar 2011
21. Recent Trends in Green Synthesis (RTGS-2011) (Member), 5-6th Aug 2011
22. UGC Sponsored IYC Workshop on "Chemistry-Our Environment, Our Life and Our Future" (Co-Convener), 22-23rd Dec 2011
23. National seminar on Recent Advances in Textile and Electrochemical Sciences, Alagappa University (RATES 2012). (Member & Chaired a session), 22-23rd Mar 2012
24. International Conference on Recent Advances in Textile and Electrochemical Sciences, Alagappa University (RATES 2013). (Member), 21-23rd Mar 2013
25. World Environment Day - (Avoid Food waste) (Co-ordinator), 2nd July 2013
26. Workshop on Frontier Areas in Chemical Technologies - FACTS 2014 (member), 21-22nd Feb.2014
27. Career Guidance & Counselling programs to 20 University Departments - (through CGCC as Co-ordinator), 12th Feb.2014 - 27th Mar.2014
28. Orientation to UG/PG Freshers (2014-15 batch) - Anti-ragging -online affidavit 7-9th July 2014 & 13th Aug 2014
29. Seminar on Frontier Areas in Chemical Technologies - FACTs 2015 (member), 6-7,th Mar.2015
30. Village Placement Program (VPP) at Mathur Village, 25-27th Sept. 2015
31. International Conference on Frontier Areas in Chemical Technologies - FACTs 2016 (member), 21-23rd Mar. 2016

Events Participated

Conferences / Seminars / Workshops: 34

1. 5th Science Research Seminar on Environment, Ecology and Pollution Control, University of Madras, 11-12, Mar. 1988
2. National Young Scientist Seminar on Environmental Pollution, University of Agri. Sciences, Bangalore, 30-31, Mar. 1989
3. Workshop on Recent trends in Electrochemical Process & Product Finishing, organized by CECRI at Hotel Femina Trichy, 19-20, Jan. 1990
4. Second National Conference on Electrochemicals, IIT, Bombay, 26-28, Oct. 1990
5. International Conference on Energy, Environment and Electrochemistry, CECRI, Karaikudi, 10-12, Feb. 1993
6. Seminar on Environmental Protection, AOTS-Japan (TN Chapter), 10-11, Jan. 1996
7. National Seminar on Advanced Wastewater Treatment, Annamalai University, 1-2, Mar. 1996
8. Sixth World Environment Congress, Ind. Institute of Env. & Ecology, New Delhi, 21-23, Dec. 1997
9. International Conference on Recent Trends in Monitoring Environmental Quality, IIT, Kharagpur, 29-31, Dec. 1997.
10. TEXFAIR 1998 (by Colourage), Erode, 6-8, Nov. 1998
11. Seminar cum TEXINDIA FAIR 2000, Coimbatore, 15-17 Sept. 2000
12. Electroanalytical Chemistry and Allied Topics (ELAC 2000), BARC, Bombay, 27th Nov.-1st Dec.2000
13. Prof. SSM Endowment seminar on Advances in Organic Chemistry, MK University, Madurai, 15th July 2002
14. First International Textile Education conference, SSM College (venue: Chennai), 1-4, July 2005
15. DST sponsored National workshop on Green Chemistry, MK University, Madurai, 15-16, July 2005
16. National Seminar on Nano Science and Technology (Chaired a session), Periyar University, Salem, 29-30, Sept. 2005
17. National Seminar on Ideal Education, St. Justin College, Madurai, 16-17, Dec.2005
18. International Conference ELAC-2007, ISEAC, BARC Mumbai at Shimla, 10-15th March 2007,
19. Green Chemistry Forum, Monash University, Melbourne, 8th Nov.2007
20. Centre for Green Chemistry training workshop 2007, Monash University, Melbourne, 29-30, Nov.2007
21. International Conference on Active / smart materials, Thiagarajar College of Engg., Madurai, 7-9, Jan. 2009
22. Role of Chemistry in Monitoring and Management of Environment (Chaired a session), SV University, Tirupati, 20-21, Mar. 2009

23. MATCON 2010, (Chaired a session), Cochin Uni. of Sci. & Tech., Kerala, 11-13, Jan. 2010
24. Seminar on Textile Science & Education, Technical University of Liberec (Czech), 13-17, Jun. 2011
25. Seminar on Textile Testing, SDS Labs, Tirupur, 7th Sept. 2011
26. OSDD workshop, CECRI, Karaikudi, 20th Dec. 2011
27. National workshop on Expansion and Enrichment of Distance Learning DDE-Alagappa University, Karaikudi, 27-28, Mar. 2012
28. AATCC International Conference 2013, Greenville, USA, 9-11, Apr. 2013
29. Workshop on Innovation & Sustainability of India, Alagappa University, Karaikudi, 30th Apr. 2013,
30. Seminar on RUSA, TANSCH, Chennai, 21st Mar 2014
31. Workshop on RUSA, TANSCH, Chennai, 6th Apr. 2015
32. National Conference on Drug Discovery and Development in Chemistry Applications in Pharma Industry, SV University, Tirupati, 14-15, Sept. 2015
33. 16th EMBO-EMBL Science & Society Conference, Heidelberg, Germany, 5-6, Nov. 2015
34. 14th IRES Conference, Paris, France, 7th Nov. 2015

Overseas Exposure / Visits

1. Australia (Melbourne) – 2007
2. New Zealand (Auckland) – 2007
3. Czechoslovakia (Praha, Liberec) – 2011
4. Germany (Dresden) – 2011
5. USA (New York, Washington, Greenville) – 2013
6. Germany (Heidelberg) – 2015
7. France (Paris) – 2015
8. Switzerland (Geneve) - 2015

Membership in

Professional Bodies

1. Life Member: Swadeshi Science Movement, Kunderakudi.
2. Life fellow - SAEST, Karaikudi (LF505)
3. Life member - Indian Science Congress Association, Kolkata (L14710).
4. Acted as Vice-President, SAEST, Karaikudi. 1998 –2000
5. Acted as member / subject Expert in Public Service Commission.

Reviewer for Journals

1. Int. J. Cosmetic Science (ICS)
2. Int. J. Environmental Engineering (IJEE)
3. Int. J. Environmental Analytical Chemistry (IJEAC)
4. J. Electroanalytical Chemistry (US)

5. Material Science & Engineering C (Elsevier)
6. Journal of Carbohydrate Polymers (UK)
7. Patents in nanotechnology (Japan)
8. Separation science (Pakistan)
9. Research Highlights (Avinashilingam University)
10. Applied Research (PSG Krishnammal College)

Academic Bodies (such as Board of Studies etc.,)

Chairman in Board of Studies in many Universities

Resource persons in various capacities

Number of Invited / Special Lectures delivered: 56

1. Interdisciplinary Seminar organized by NSS Unit, Alagappa University, 28th April 1997
2. Seminar and Workshop on Trends in Textiles, Sourashtra College, Madurai, 20-21, March 1999.
3. Interdisciplinary Seminar organized by NSS Unit, Alagappa University, 28th Feb.1997
4. NCUTE HRD Program on "Eco-Friendly Textile Wet Processing", SSM College, Komarapalayam, 26-27 July 2001.
5. UGC Seminar on Environmental Pollution, SA College, Pallathur, 21st Jan 2002.
6. Effluent Treatment and Pollution Control (For Final Year B. Tech. Students), SSM Eng. College, Komarapalayam, 8th March 2002.
7. Applications of Voltammetry for the Determination of HEM (DRDO Project), HEMRL, Pune, 26th Nov. 2002.
8. "Water Pollution", (For B.Sc. Industrial Chemistry-Vocational Students), Rajas College, Rajapalayam, 28th Feb.2003.
9. NCUTE Program on Modern Developments in Textile Wet Processing, SSM College, Komarapalayam, 26-27, June 2003.
10. Recent advances in Electroanalytical Chemistry and water" (For Refresher course), Bharathidasan University, Trichy, 20th Nov. 2003.
11. 59th All India Textile Conference, SSM College, Komarapalayam, 31st Jan-1st Feb. 2004
12. Environmental friendly textile processing, AVVM Pushpam College, Poondi, 19-20, Feb 2004.
13. "Green Chemistry", Refresher course in Industrial Chemistry, Alagappa University, 2nd Dec. 2004.
14. Cyclic voltammetry and its application to Environmental Analysis, AVVM Pushpam College, Poondi. 16th Feb.2005.
15. National Seminar on Novel trends in Organic and Photochemistry, Catholicate College, Kerala, 21-23rd Feb 2005.
16. "Green Chemistry applications in Textiles", SA College, Devakottai, 7th March 2005
17. TANSCHÉ sponsored workshop-UV-Visible Spectroscopy, VOC college, Tuticorin, 28th March 2005
18. Green concepts", Environmental Club sponsored seminar, Alagappa University, 27th June 2005.

19. Inaugurated "Environmental Science" course and spoke on "Green concepts", Ananda College, Devakottai, 6th Aug. 2005.
20. Inaugurated the BioBeats2005 seminar and spoke on "Green Chemistry", Navarasam College, Erode, 22nd August 2005.
21. Inaugurated one day seminar on "Water and Environment", and spoke on Pollution, SA College, Pallathur, 22nd Sept. 2005.
22. "UV-Visible applications", to PG students of Chemistry, Periyar University, Salem, 3rd March 2006.
23. Green Chemistry" lecture at UGC seminar, Wakf Board College, Madurai, 9th March 2006.
24. Green Chemistry" lecture at college in One-day seminar, Devangar Arts College, Aruppukkottai, 1st March 2008
25. Green Chemistry, Adiyaman College of Engg. Hosur, 5-6 Feb, 2010
26. Inaugurated chemistry association with lecture on Carbon footprint, APSA College, Tirupattur, 30th Aug, 2010
27. Inaugurated chemistry association with lecture on Recent Trends in Chemistry, Ultra College of Engg. For women, Madurai, 4th Oct, 2010
28. Lecture on Cyclic Voltammetry in the Workshop on Electroanalytical Techniques, Alagappa University & SINSIL, 11-13th Oct, 2010
29. Talk on Polymer-Metal Composite in "National Conference in Chemistry", NSS College, Ottapalam, Kerala, 17-18, March 2011
30. Talk on "R & D in Science and Technology" (Intl. Conference on BUSINESS MOSAIC), Alagappa University (Management faculty), 24-26th March 2011
31. Lecture on Sustainable Technologies for Green Environment, Kalaingar Karunanidhi Inst. Of Tech. Coimbatore, 3rd June 2011
32. Lecture on Green Chemistry for Staff Orientation Program, Sri VijayVidyalaya College of Arts & Sci., Dharmapuri, 4th June 2011
33. Lecture on Trends in Chemistry , Srimathi Indra Gandhi College, Trichy, 1st Aug 2011
34. Textile Fibres, Dyes and Colouration, Mangalore University, Mangalore, 5th Nov.2011
35. Comprehensive Chemistry (for NET exams), Bharathiar University, Coimbatore, 3-4th Mar.2012
36. UV and CV Theory & applications in national workshop on Characterization Techniques, School of Physics, Alagappa University, 24-26th Mar 2012
37. Environmental Issues, Dept. of Corporate Secretaryship, AU, 1st Aug. 2012
38. Sustainable CHEMISTRY, Sreenivasan College, Perambalur, 16th Aug. 2012
39. Textiles: Fibres and Dyes, Mangalore University, Mangalore, 14th Sept. 2012
40. Inaugurated and delivered lecture on ECO-CLUB, Chettinad Public School, Karaikudi, 20th Sept. 2012
41. National seminar on Basic Science Courses, Canara First Grade College, Mangalore, 5-6 Feb 2013
42. Chemistry Association IL on Functional Polymers, Ananda College, Devakottai, 21st Feb 2013
43. UV Theory & applications in national workshop on Characterization Techniques, School of Physics, Alagappa University, 21 Mar 2013
44. Novel Chemicals for Textile Applications, AATCC, Greenville, USA, 9-11th Apr. 2013
45. Development of Sustainable material for face mask , Ind & Consultancy cell of Alagappa University, 30th April 2013

46. Industrial Chemistry, Mangalore University, 28th Oct.2013
47. Eco-Footprint, Bhaarat CBSE School, Karaikudi, 20 June 2014
48. Creation of scientific awareness (Inauguration), SA College for Women Pallathur, 25th July 2014
49. Environmental Protection, Dept. of Corporate Secretaryship, 20th Aug 2014
50. National seminar on New Opportunities and Challenges in Chemical Research, AVVM Sri Pushpam College, Poondi, 30th Dec 2014
51. Best Practices adopted in Universities (IQAC), Alagappa University, 9th Jan.2015
52. Key Note Address on Citizenship Training Camp, Vivekananda College of Education, Kummangudi, 27th Jan.2015
53. Three Days workshop on "LaTeX" tool, ACCET, Karaikudi, 21.12.2015
54. Training cum workshop on AISHE & NIRF, Alagappa University, 20.01.2016
55. Orientation program (IQAC & NIRF), Sethupathy Govt Arts College, Ramnathapuram, 11.02.2016,
56. IQAC - ActNext program - Physics Nobel prize, Dept. Of Physics, Alagappa University, 18.03.2016

Others

1. No. of PhD Thesis supervised: 18
2. No. of Ph.D. Thesis evaluated : 25
3. In the capacity of Special Officer (Planning & Development), Attended TANSCHÉ meetings at Chennai for RUSA (several times), Prepared and submitted a proposal to Social Ministry for web accessibility to PwD (Apr.2014), Arranged to submit proposals to TANSCHÉ for Tamilnadu Innovative Initiatives (July 2014), Arranged to submit 4 CPEPA proposals to UGC (Oct.2014), Arranged to submit UPE proposal to UGC (Sept.2014), Arranged to submit 6 SAP proposals to UGC (Sept.2014), Arranged to Submit CEDS proposal to UGC (Jan.2015), Attended UPE presentation meeting at UGC New Delhi (19.01.2015), Arranged to submit KAUSHAL proposal to UGC (10.02.2015) and presented at UGC on 26.06.2015, Prepared Citizen`s Charter (both English & Tamil versions), Prepared Annual Report 2014-15.

Recent Publications

1. AL.Kavitha, T.Vasudevan, H.Gurumallesh Prabu, (2010), Evaluation of antiscalants for water cooling systems, *Desalination*, 268, 38-45,(IF:3.4)
2. S.K Shamna, S. S.Ananda Babu, H.Gurumallesh Prabu(2011), Mentha Arvensis assisted synthesis of silver from silver nitrate,(ISBN: 978-3-642-23393-7), springer e book.
3. H.Gurumallesh Prabu, T.Mukundan, S.N.Asthana, M.B.Talawar, (2011), Cyclic voltammetric analysis of some High Energy Materials in acetonitrile medium, *Combustion, Explosives and shockwaves*, 47(1), 2011, 1-9.)
4. S.Ananda Babu, H.Gurumallesh Prabu, (2011), Synthesis of AgNPs using the extract of *Calotropis procera* flower at room temperature, *Materials Letters*, 65, 1675-1677, (IF:2.2)
5. K.U.Savitha, H.Gurumallesh Prabu (2011), One-Pot Synthesis of PANI-TiO₂ (anatase) Hybrid of Low Electrical Resistance Using TiCl₄ as Precursor, *Materials Chemistry and Physics*, 130, 275-279, (IF: 2.4).

6. AL.Kavitha, H.Gurumallesh Prabu, S.Ananda Babu, (2012), "Synthesis of low cost Iron oxide-chitosan nanocomposite for antibacterial activity, *International Journal of Polymeric Materials*, 62, 1-5, (IF: 1.87).
7. M.Anandan,S.Ananda Babu, H.Gurumallesh Prabu, (2012) Size and shape controlled greener synthesis of AgNPs using *Cissus Quadrangularis* twig at room temperature, *Journal of Bionanoscience*, ISSN:1557-7910,6,1-4.
8. AL.Kavitha, H.Gurumallesh Prabu, S.Ananda Babu,S.K.Suja,(2012)" Magnetite Nanoparticles-chitosan Composite Containing Cabon paste Electrode for Glucose Biosensor Application, *Journal of nanoscience and nanotechnology*, 12, 1-7, (IF: 1.3).
9. K.U.Savitha, H.Gurumallesh Prabu (2012), Flexible EMI shields in S band region from textile materials, *J. Industrial Textiles* , 1-16 DOI: 10.1177/1528083712452898, (IF: 1.3).
10. P.Boomi,, H.Gurumallesh Prabu, J.Mathiyarasa (2013),"synthesis and characterization of polyaniline/Ag-Pt nanocomposite for improved antibacterial activity, *J. Colloidal Surface B-Biointerface*, 103, 9-14, (IF: 3.5).
11. K.U.Savitha, H.Gurumallesh Prabu (2013) Polyaniline-TiO₂ hybrid coated cotton fabric for durable electrical conductivity, *journal of applied polymer science*, 127(4), 3147-3151, (IF: 1.6).
12. S.Clara Anthoniamma, H.Gurumallesh Prabu (2013), Low cost and energy efficient synthesis of anatase grade TiO₂ by simple stirring technique, *J. Nanoelectronics and optoelectronics*, 8, 1-6, (IF: 0.3).
13. AL.Kavitha, H.Gurumallesh Prabu (2013), Synthesis, characterization of CH- α -Fe₂O₃ nanocomposite and coating on cotton, silk for antibacterial and UV spectral studies, *J. Industrial Textiles*, 1-13 DOI 10.1177/1528083713485612, (IF: 1.3).
14. P.Boomi, H.Gurumallesh Prabu (2013), Synthesis, characterization and antibacterial analysis of polyaniline/Au-Pd nanocomposite, *Colloids and Surfaces A: Physicochemical and Engineering aspects*, 429, 51-59, (IF: 2.1).
15. P Boomi, H Gurumallesh Prabu, P Manisankar, S Ravikumar(2014), Study on antibacterial activity of chemically synthesized PANI- Ag-Au nanocomposite, *Applied Surface Science* 300,66-72, (IF: 2.7).
16. P Boomi, H Gurumallesh Prabu, J Mathiyarasu (2014), Synthesis, characterization and antibacterial activity of polyaniline/Pt-Pd nanocomposite, *European Journal of Medicinal Chemistry*, 72,18-25, (IF: 4.0).
17. RM. Ganesan,H. Gurumallesh Prabu (2015), Synthesis of gold nanoparticles using herbal *Acorus calamus* rhizome extract and coating on cotton fabric for antibacterial and UV blocking applications, *Arabian Journal of Chemistry*, doi:10.1016/j.arabjc.2014.12.017, (IF: 2.6).
18. S. Clara Anthoniamma, H. Gurumallesh (2015), Photocatalytic activity of TiO₂ films prepared by sol-gel and electrodeposition on the decolourization of monoazo dyes, *Journal of Sol-Gel Science and Technology*, 73(1)118-126, (IF: 1.6).
19. K. Bharathi Yazhini, H. Gurumallesh Prabu (2015), Antibacterial Activity of Cotton Coated With ZnO and ZnO-CNT Composites, *Applied Biochemistry and Biotechnology*,175,85-92, (IF: 1.6).
20. K. Bharathi Yazhini, H. Gurumallesh Prabu (2015), Polymer metal oxide composites on textile applications, *Journal of Environmental and Applied Bioresearch*, ISSN: 23198745, 03, 25-32.
21. K. Bharathi Yazhini, H. Gurumallesh Prabu (2015), Study on flame-retardant and UV-protection properties of cotton fabric functionalized with ppy-ZnO-CNT nanocomposite, *RSC Advances*, 5, 49062-49069 (IF 3.289)

22. K. Bharathi Yazhini , H. Gurumallesh Prabu, J.Rathna Nandhini (2015), Synthesis and coating of ZnO-BTCA composite on cotton for Antibacterial activity, *Journal of Environmental and Applied Bioresearch*, 3(3), 150 -154 (IF 0.435).
23. Janarthanam Rathna, Barathi Yazhini, Ajila Antony Alex kennedy, Gurumallesh Prabu, Karutha Pandian (2016); Production of naphthoquinones and phenolics by a novel isolate *Fusarium solani* PSC-R of Palk Bay and their industrial applications, *Bioresource Technology*, DOI: 10.1016/j.biortech.2016.04.050 (IF 4.917).
24. Seiko Jose, H Gurumallesh Prabu, L Ammayappan (2016), Eco-Friendly Dyeing of Silk and Cotton Textiles Using Combination of Three Natural Colorants, *Journal of Natural Fibers*, 14(1), 40-49 (IF:0.58).