



Name: Dr. S. Kothai

Qualification: M.Sc., M. Phil., Ph.D.

Designation: Associate Professor & Head, Principal

Years of Experience: UG: 31 PG: 31

Area of Specialization: Polymer Chemistry, Nano Chemistry

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MEMBERSHIP

| S.No. | Details | State/National/International |
|-------|--|------------------------------|
| 1. | Life member, Acoustical Society of India | National |
| 2 | Member, Indian Professors Forum, Scan Foundation | National |
| 3 | Member, Ultrasonics Society of India | National |

PROJECTS

| S.no. | Title | Duration | Funding agency | Amount sanctioned (in lakhs) |
|-------|--|-------------|-----------------------------------|-------------------------------|
| 1 | Young Women Scientists | 2002 | TNSCST | |
| 2 | FIP Fellowship | 2004 | UGC | |
| 3 | SynthesisMetal ions | 2008 | Summer Research Project UGC | |
| 4 | Synthesis and Characterisation of Thermotropic LC Random Copolyesters with Flexible Spacers | 2001-02 | UGC – Minor Research Project | 0.22 |
| 5 | Spectroscopic investigations on gall stones of highly stressed women in Tamilnadu | 2010-2012 | MRP, University Grants Commission | 2 |
| 6 | Synthesis & characterization of certain chalcone based photo crosslinkable polyesters and its application | 2016 - 2017 | TNSCT (Student Research Project) | 0.10 |
| 7 | Design, Fabrication of Hydrogel incorporated with honey loaded microsponges and its evaluation on wound healing activity | 2019 - 2020 | ECRIC, Ethiraj Research Centre | 1.10 |
| 8 | Novel Carbon based polymer nanocomposites for fuel cells | 2020 – 2022 | TNSCT & DST | 4.85 |

RESEARCH GUIDANCE

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| Ph.D Awarded | 5 |
| Ph.D Guiding | 2 |
| M.Phil Awarded | 4 |
| M.Phil Guiding | Nil |

WORKSHOPS

| S.no. | Organized by | State/National/International | Topic | Date(s) |
|-------|---|------------------------------|--|----------------------------|
| 1 | University of Madras. | State | Orientation Programme by Academic staff College | 12.5.93 to 8.6.93 |
| 2 | University of Madras. | State | Need based refresher course on Instructional technology in Higher Education. | 15.4.1998 to 6.5.1998 |
| 3 | University of Madras. | State | Refresher Course in Group theory, Quantum Chemistry and applications, | 3-23, Dec 1998 |
| 4 | Department of Crystallography and Biophysics, University of Madras. | State | Refresher course in Physics | 2-22, June 1999 |
| 5 | University of Madras. | State | UGC sponsored short term course for Researchers, Academic Staff College | 20-24, Dec 2010 |
| 6 | Anna University & Ethiraj College for Women. | National | UGC sponsored Sensitisation Workshop on Capacity building for women managers in Higher Education | 10-14, July 2006 |
| 7 | National Centre for Nanoscience and Nanotechnology, University of Madras. | National | National workshop on preparation and characterisation of Nanomaterials | 14-16, March 2011 |
| 8 | Ethiraj College for Women. | State | State Level Workshop on Research Methodology and Research | 15-17, Feb 2012 |
| 9 | Anna Adarsh College for Women. | State | FIP Workshop on Eco friendly Chemistry- A Microscale approach | 17 th July 2012 |
| 10 | Ethiraj College for Women. | State | IQAC Workshop on Emotional Intelligences | 8-9, Oct 2012 |
| 11 | Ethiraj College for Women. | State | Workshop on Radio Chemistry | 24 th Nov 2012 |

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|-----|--|----------|--|----------------------------|
| 12 | Ethiraj College for Women. | State | Workshop on research Collaboration. Consultancy and Patent & Knowledge Management | 5 th April 2013 |
| 13 | Ethiraj College for Women. | State | Workshop on Development of strategies for quality enhancement | 12 th July 2013 |
| 14 | Ethiraj College for Women. | State | Basic Training programme in Human rights for Teachers | 27 th Jan 2015 |
| 15 | Ethiraj College for Women. | State | Workshop on Health, Stress & Diabetes | 11 th Sep. 2015 |
| 16 | Ethiraj College for Women. | State | Workshop on Scientific computing using R-Software | 11 th Jan 2016 |
| 17 | Ethiraj College for Women. | State | Workshop on Analytical tools for Micro and Nanoscale characterisation of materials in Biological and physical Sciences | 9 th Feb 2016 |
| 18 | Ethiraj College for Women. | State | Workshop on Performance enhancement | 9 th March 2017 |
| 19 | Ethiraj College for Women. | State | Workshop on Tamil Software | 7 th Sep 2017 |
| 20 | Ethiraj College for Women. | State | Workshop for Faculty | 2 nd March 2018 |
| 21. | Internal Quality Assurance Cell, Dwaraka Doss Goverdhan Doss Vaishnav College, Chennai | National | ICT Competency for Higher Education Teachers | 13.7.2020 to 15.7.2020 |

CONFERENCES ATTENDED / PRESENTED PAPER

| S.no. | Organized by | State/National/International | Participated/Presented | Title | Date(s) |
|-------|---|------------------------------|------------------------|--|--|
| 1 | St. Joseph's College, Trichy-National Symposium on Acoustics-2000 | National | Presented | Studies on Ion Solvent Method | 22-11-2000 & 23-11-2000. |
| 2 | NSMCRAC - 2001 conducted by Presidency College | National | Presented | Ultrasonic studies on the solute – solvent interaction | 9 th & 10 th Feb 2001. |
| 3 | NSMCRAC - 2001 conducted | National | Presented | Synthesis , characterization of certain novel | 9 th & 10 th Feb 2001. |

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|----|---|---------------|-----------|---|---|
| | by Presidency College on | | | thermotropic liquid crystalline random copolyesters | |
| 4 | X National Symposium on Ultrasonics- Osmania University, Hyderabad | National | Presented | Ultrasonic method ... in hexane solution” | 15-16 th March 2001. |
| 5 | NSA-2001, VIT, Vellore on | National | Presented | Studies on charge....solution | October 18-20, 2001. |
| 6 | NSA-2004, S.J. College of Engineering, Mysore | National | Presented | Ultrasonic studies... by enzymes | 26 th Nov 2004. |
| 7 | International Conference ALPS-2006, Auxilium College, Vellore | International | Presented | Ultrasonic studies...by Iodine | 5 th & 6 th Jan 2006. |
| 8 | NSA-2006, National Physical Lab, New Delhi, NSA-2006 | National | Presented | | 16 th & 17 th Nov 2006. |
| 9 | National Conference Eco-sono and nanochemistry, New College, Chennai | National | Presented | | 20 th & 21 th Dec 2006. |
| 10 | National Conference on Recent Advancement in Materials Science, Vivekananda College, Chennai, RAMS-2006 | National | Presented | | 29 th & 30 th Dec 2006. |
| 11 | NSA-2007, KSR College of Technology, Tamil Nadu | National | Presented | Ultrasonic..... solution | 5-7, Dec 2007. |

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| 12 | NSA-2007, KSR College of Technology, Tamil Nadu | National | Presented | Ultrasonic.....complexes | 5-7, Dec 2007. |
| 13 | NSU-XVIII, VIT, Vellore | National | Presented | Ultrasonic study ... concentrations | 21-23, DEC. 2009 |
| 14 | National Conference on Energy, Presidency College, | National | Presented | | 18 th & 19 th July 2013. |
| 15 | National Conference NCETSH 2014, Saveetha Engineering College | National | Presented | | 11 th April 2014. |
| 16 | International Conference on Advances in New Materials, University of Madras, 2014. | International | Poster presentation | | 2014. |
| 17 | NCMMW-2014, Easwari engineering College, 2014. | National | Presented | | 2014. |
| 18 | National Conference in recent Trends in Applied Sciences, Chevalier T.Thomas Elizabeth College for women | National | Presented | | 2015 |
| 19 | National Conference in recent Trends in Applied Sciences, Chevalier T.Thomas Elizabeth College for women | National | Presented | | 2015. |

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| 20 | International Conference, Anna Adarsh College for Women | International | Presented | | 2015. |
| 21 | National Conference on Drug Discovery, Sri Venkateshwara University | National | Presented | | 2015 |
| 22 | International Conference, Anna Adarsh College for Women, 2015. | International | Presented | | 2015 |
| 23 | International Conference ICEWEST-2015, Presidency College on | International | Presented | | 5-6, Feb 2015. |
| 24 | National Conference RSOS-2015, Vels University | National | Presented | | 18 th March 2015. |
| 25 | National Conference on Advancements of Applied Zoology for Sustainable Development – Current Trends an Future Perspectives, Pachaiyappa's College | National | Presented | Antibacterial activity of Chitosan –Silver (I) oxide nanocomposite fabricated with herbs | 5 th & 6 th Oct 2017. |
| 26 | National Conference on Advancements of Applied Zoology for Sustainable Development – Current Trends and Future Perspectives, Pachaiyappa's College | National | Presented | Synthesis and characterization of chalcone based copolyesters and their anticancer activity | 5 th & 6 th Oct 2017. |

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| 27 | National Conference on Advancements of Applied Zoology for Sustainable Development – Current Trends an Future Perspectives, Pachaiyappa's College | National | Presented | Nanocomposites incorporated with Herbs” | 5 th & 6 th Oct 2017. |
| 28 | Jyoti Submmit-2017 – India after Seventy Years, organized by Post-Graduate Centre, Jyoti Nivas College | National | Presented | Synthesis, Study of Photoresponsive Polymers with Bis-chalcone Moiety in the Main chain” | 22-23 September 2017. |
| 29 | International conference on advancements and challenges in Chemical Sciences at Pachaiyappa's College | International | Presented | Synthesis, Characterization and antibacterial study of a novel collagen bionanocomposite | 2 nd and 3 rd Feb 2018. |
| 30 | International Conference on Advancements and Challenges in Chemical Sciences, Pachaiyappa's College | International | Presented | Nonlinear Optical activity of Synthetic Chalcone derivatives | 2 nd & 3 rd Feb 2018. |
| 31 | National Conference on Recent Advances in Materials Science and Technology, Department of Chemistry at Ethiraj College for Women (Autonomous) | National | Presented | In Vitro anticancer activity of synthetic chalcone derivative | 12 th & 13 th Feb 2018. |
| 32 | Madras University Post Centenary | International | Presented | Antimicrobial and Anti Cancer Activities of | February 27th-28th 2018. |

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|----|--|---------------|-----------------------------|---|---|
| | Diamond Jubilee International Seminar on Advanced Nanomaterials- ISAN-2018 | | | Biogenic Silver Nanoparticles”, | |
| 33 | International Conference on Green Chemistry for a Greener Planet, Department of Chemistry, Anna Adarsh College for women | International | Presented | * Green synthesis, Characterisation of copper nanoparticles derived from Hibiscus rosa-sinensis leaf extract and their antimicrobial activities | 12 th Sep 2018. |
| 34 | National Symposium on Emerging Trends in Nanoscience Research, Ethiraj College (Organising Committee Member). | National | Organising Committee Member | Synthesis of Biogenic Silver and Iron Nano Particles by Ultrasonication Method” | |
| 35 | National Conference on Recent Advancement in Materials Science, Vivekananda College, Chennai, RAMS-2006 | National | Invited lecture | | 29 th & 30 th Dec 2006. |
| 36 | National Conference Eco-sono and nanochemistry, New College, Chennai | National | Invited lecture | | 20 th & 21 th Dec 2006. |
| 37 | International Conference on the topic Water Conservation, Save Blue to Save Green, Anna Adarsh College for Women, | International | Chairperson | | 26/08/2015 |

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| 38 | International conference on advancements and challenges in Chemical Sciences at Pachaiyappa's College, Chennai | International | Evaluator of Poster Presentations | | 2-2-2018 and 3-2-2018 |
| 39 | Workshop on Tips and Tricks to clear the NET in Ethiraj College for Women, Chennai | National | Organising member | | 17-02-2016 |
| 40 | UGC-Funded – CPE Grant Enrichment of Teachers in Ethiraj College for Women, Chennai | National | Organising member | | 23-09-2016 |
| 41 | Lecture on Problem solving in IR and UV-VIS Spectroscopy in the State Level Workshop on Structure Determination of Compounds in Ethiraj College | State | Lecture | | 22-08-2013 |
| 42 | VIT Vellore | International | Presented | Conductance Behaviour of Novel polymer Nanocomposites | 11-13, October 2019 |
| 43. | Stella Maris College in collaboration with DST Thematic Unit of Excellence, IIT Madras. | International | Presented | Conducting behavior of Iron and Iron oxide Nanoparticle – a comparison | 11 & 12 , Dec 2019 |
| 44 | Stella Maris College in collaboration with DST Thematic Unit of Excellence, IIT Madras. | International | Presented | <i>In-vitro</i> Cytotoxicity and wound healing potential of green synthesised Copper Nanoparticles Loaded Microsponges | 11 & 12 , Dec 2019 |

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| 45 | Madras Christian College. | National | Presented | Electrical conductivity of Bischalcone based random copolyesters: Synthesis and Characterisation | 12 & 13, Dec 2019 |
| 46 | Madras Christian College. | National | Presented | <i>In-vitro</i> Cytotoxicity and Wound Healing Potential of Honey Loaded Microsponges | 12 & 13, Dec 2019 |
| 47 | Department of Physical Chemistry, University of Madras. | International | Presented | Design and Fabrication of hydrogel incorporated with copper nanoparticles loaded microspunge for antimicrobial and antioxidant activity | 9-10 Jan 2020 |
| 48 | Ethiraj College for Women | International | Presented | An historical overview on the use of pharmaceuticals from folk medicine towards the ultimate magic root of health benefit | 17 -18 Feb 2020 |
| 49 | DK International Research Foundation, | International | Presented | An Overview of Microspunge as drug delivery system | 28 th June 2020 |
| 50 | DK International Research Foundation, | International | Presented | Development of Honey Microspunge Loaded Hydrogel for a Promising Antimicrobial Activity | 28 th June 2020 |
| 51 | DK International Research Foundation, | International | Presented | <i>Review paper</i> | June 2021 |
| 52 | Ethiraj College for Women, Chennai | National | Participated | National Conference on e-governance | 3-4, February 2006 |
| 53 | National Institute of Technical Teachers Training and | National symposium | Participated | National symposium on E-Learning in Education | 19 th Dec 2008. |

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| | Research, Chennai, Ministry of Human Resource Development, Government of India | | | | |
| 54 | IQAC, Ethiraj College | National symposium | Participated | UGC sponsored National Symposium on 'Effective Governance and Brand Building in Higher Educational Institutions | 24 th & 25 th February, 2014 |
| 11 | NSA-2007, KSR College of Technology, Tamil Nadu | National | Presented | Ultrasonic..... solution | 5-7, Dec 2007. |
| 12 | NSA-2007, KSR College of Technology, Tamil Nadu | National | Presented | Ultrasonic.....comp lexes | 5-7, Dec 2007. |
| 13 | NSU-XVIII, VIT, Vellore | National | Presented | Ultrasonic study ... concentrations | 21-23, DEC. 2009 |
| 14 | National Conference on Energy, Presidency College, | National | Presented | | 18 th & 19 th July 2013. |
| 15 | National Conference NCETSH 2014, Saveetha Engineering College | National | Presented | | 11 th April 2014. |
| 16 | International Conference on Advances in New Materials, University of Madras, 2014. | International | Poster presentation | | 2014. |

SEMINARS

| S.no. | Organized by | State/national/international | Topic | Date(s) |
|-------|------------------------------|------------------------------|-----------|---------|
| 1 | National Seminar, Ethiraj | National | Presented | 2014. |

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| | College for Women, 2014. | | | |
| 2 | UGC sponsored National Seminar on Contemporary molecular Biology, MR Govt. Arts College, | National | Presented | 2015. |
| 3 | UGC sponsored National Seminar on Contemporary molecular Biology, MR Govt. Arts College, | National | Presented | 2015. |
| 4 | National Seminar APGRI-2016, Meenakshi College for Women | National | Presented | 22 nd & 23 rd Sep 2016. |
| 5 | Anna Adarsh College for women | National | Presented | 22.08.2019 |

CERTIFICATE COURSES /VALUE ADDED COURSES

| S.no. | Offered by | Topic | Duration |
|-------|---|--|--------------------------------|
| 1 | Mafio Randstad at Ethiraj College for Women, Chennai (one month course for content writing, e-learning and e-module developed for Science subjects) | E-Learning training program | March 2007 one month course |
| 2 | NITTR, Bhopal- NPTEL online certification funded by the MHRD, Govt. of India. | ICT in teaching & learning (FDP MOOC Course) | July- Aug 2020 |

JOURNAL PUBLICATIONS

| S. NO | JOURNAL NAME | UGC/ SCI/ SCIE/ WOS | ISBN/ISSN | REFERENCE | DATE OF PUBLICATION/ DOI |
|-------|--------------|---------------------|-----------|-----------|--------------------------|
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|----|--|--|--------------------|--|---|
| 1. | Journal of Acoustical Society of India | | ISSN: 0973-3302 | Studies on Ion-Solvent Interaction in Aqueous and Non-Aqueous Solutions of Transition Metal Ions by Ultrasonic Method | 2000 http://nopr.niscair.res.in/bitstream/123456789/2298/1/IJPA_P%2045%282%29%20143-150.pdf |
| 2 | Journal of Acoustical Society of India | | ISSN: 0973-3302 | Studies on charge transfer complexes of aryl ethers with iodine in n-hexane solution | 2001 |
| 3 | Indian Journal of Pure and Applied Physics | | ISSN: 0975-1041 | Ultrasonic studies on charge transfer complexes of iodine with certain aromatic compounds in n-hexane solution | 2002 |
| 4 | Journal of Pure and Applied Ultrasonics | | ISSN: 0245-4637 | Studies on charge transfer complexes of iodine and certain aromatic hydrocarbons in n-hexane solution at 303K by ultrasonic method | 2002 |
| 5 | Journal of Acoustical Society of India | | ISSN: 0973-3302 | Studies on charge transfer complexes of iodine with certain aromatic amines in n-hexane solution | 2002 http://nopr.niscair.res.in/bitstream/123456789/25357/1/IJPA_P%2040%281%29%2017-23.pdf |
| 6 | Journal of Acoustical Society of India | | ISSN: 0973-3302 | Ultrasonic studies on ethylene glycol and its oligomers in ethanolic solutions at 303K | 2002 |
| 7 | Journal of Polymer Mater | | ISSN: 0973-8622 | Correlation of Acoustical Properties with Molecular weight of Glycol and its Oligomers in Ethanolic solution | 2002 |
| 8 | Journal of Acoustical Society of India | | ISSN: 0973-3302 | Enhancement of detergent action by Enzymes | 2004 |
| 9 | Journal of Acoustical | | ISSN: 0973-3302 | Ultrasonic and correlation | 2005 |

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|----|---|--|-----------------|--|---|
| | Society of India | | | investigation of glycol-ethanol systems | |
| 10 | Journal of Acoustical Society of India | | ISSN: 0973-3302 | Ultrasonic studies on the determination of molecular weight of polyethylene glycol | 2005 |
| 11 | Journal of Acoustical Society of India | | ISSN: 0973-3302 | Identification of constituents of human Gall stones by Ultrasonic technique | 2006 |
| 12 | Journal of Acoustical Society of India | | ISSN: 0973-3302 | Comparative study of homocyclic and heterocyclic compounds by Ultrasonic technique | 2006 |
| 13 | Asian Journal of Chemistry | | ISSN: 0970-427X | Ultrasonic studies on certain Surfactants | 2007 https://asianjournalofchemistry.co.in/user/journal/viewarticle.aspx?ArticleID=19_1_36 |
| 14 | Asian Journal of Chemistry | | ISSN: 0970-427X | Investigations of Glycol-ethanol systems by ultrasonic method | 2007 https://asianjournalofchemistry.co.in/User/ViewFreeArticle.aspx?ArticleID=19_7_26 |
| 15 | Journal of Acoustical Society of India | | ISSN: 0973-3302 | Ultrasonic studies on charge transfer complexes | 2007 |
| 16 | Journal of Acoustical Society of India | | ISSN: 0973-3302 | Ultrasonic investigation of CT complexes | 2008 |
| 17 | Journal of Pure and Applied Ultrasonics | | ISSN: 0245-4637 | Study of Donor-Acceptor complexes by ultrasonic technique | 2008 |
| 18 | Internat. Journal of ChemTech Research | | ISSN: 2455-9563 | Identification of Gallstones using spectroscopic technique | 2009 https://www.researchgate.net/publication/237741372_Identification_of_Gallstones_using_Spectroscopic_technique |
| 19 | Oriental Journal of Chemistry | | ISSN: 0970-020X | Ultrasonic studies on enhancement of detergent action by the enzyme-lipase | 2009 http://www.orientjchem.org/?p=23397 |
| 20 | Asian Journal of | | | Comparative Evaluation of | 2013 |

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|----|--|--|-----------------|--|---|
| | Biochemical and Pharmaceutical Research | | | Flaxseed mucilage, Gum Acacia and Peach gum as Pharmaceutical excipients. | https://www.researchgate.net/publication/341369645_Comparative_Evaluation_of_Flaxseed_Mucilage_Gum_Acacia_and_Peach_Gum_as_Pharmaceutical_Excipients |
| 21 | International Journal of Pharma and BioSciences | | | Synthesis, Characterization and Antibacterial Study of Certain Copolyesters containing Bis-Chalcone Moiety in Main Chain | 2014 https://www.researchgate.net/publication/287625973_Synthesis_characterization_and_antibacterial_study_of_certain_copolyesters_containing_bis_chalcone_moiety_in_the_main_chain |
| 22 | Asian Journal of Bio medical and Pharmaceutical Sciences. | | | Anticancer activity of silver nanoparticles biosynthesized using stingless bee propolis (Tetragonulairidipennis) of Tamilnadu. | 2014 10.15272/ajbps.v4i40.654 |
| 23 | International Journal of pharmacy and Pharmaceutical Sciences. | | | Evaluation of Antioxidant and Antimicrobial Activity of Stingless bee propolis (Tetragonulairidipennis) of Tamilnadu. | 2014 https://innovareacademics.in/journals/index.php/ijpps/article/view/1256 . |
| 24 | International Journal of ChemTech Research. | | ISSN: 2455-9563 | Ultrasound intensified green synthesis of silver nanoparticles using Camellia sinensis extract fortified with Lemon and Honey. | 2014 https://sphinxsai.com/2014/ChemTech/JM14CT1_50/CT=28(248-253)JM14.pdf |
| 25 | International Journal of Advanced Research | | | Synthesis And Characterization of Certain Photocrosslinkable Random Copolyesters with Bis-Chalcone Moiety . | 2015 http://chemistry-journal.org/detail-chemistry-journal/254/Synthesis-and-Characterization-of-CertainPhotocrosslinkable-Thermotropic-Liquid-CrystallineRandom-Copolyesters-ContainingBis-Chalcone-Moiety/T-S-Perundevis-D-Reuben-Jonathan-and-S-Kothai-.html |

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|----|--|--|-----------------|--|---|
| 26 | International Journal of Pharmaceutical Sciences Review and Research | | | Synthesis and <i>In-Vitro</i> Evaluation of Novel Bischalcone Polymers as Potential Anticancer Agents | 2015 https://www.researchgate.net/publication/282237969_Synthesis_and_in-vitro_evaluation_of_novel_bischalcone_polymers_as_potential_anticancer_agents |
| 27 | International Journal of Nanomaterials and Biostructures | | | Synthesis, Characterization of Certain Copolyesters with Bis-Chalcone Moiety in the Main Chain and the Study of their Nanofibers Blends | 2015 https://www.semanticscholar.org/paper/SYNTHESIS%2C-CHARACTERIZATION-OF-CERTAIN-COPOLYESTERS-Perundevi-Jonathan/021c4a77433c6f254ce620ee2f9d1accca70ecb7 |
| 28 | International Journal of Nanomaterials and Biostructures | | | Biomedical studies of silver nanoparticles synthesized using stingless bee propolis. | 2015 |
| 29 | International research Journal of environmental sciences. | | | A Study on the quality of stingless bee propolis reared from the most commercial hub of Chennai, Tamilnadu, India. | 2015 http://www.isca.in/IJENS/Archive/v4/i7/7.ISCA-IRJEvS-2015-103.pdf |
| 30 | International Journal of ChemTech Research. | | ISSN: 2455-9563 | Environmental impact on stingless bee propolis (Tetragonulairidipennis) reared from two different regions of Tamilnadu. – A Comparative study. | 2015 https://www.researchgate.net/publication/281735243_Environmental_impact_on_stingless_bee_propolis_Tetragonulairidipennis_reared_from_two_different_regions_of_tamilnadu_-_a_comparative_study |
| 31 | International Journal of ChemTech Research | | ISSN: 2455-9563 | Synthesis and Characterization of Chitosan with incorporated herb-a novel bio nano composite | 2015 https://www.researchgate.net/publication/284748295_Synthesis_and_characterization_of_chitosan_with_incorporated_herb_-_A_novel_bionano_composite |
| 32 | Asian Journal of biomedical | | | Synthesis and characterization and antibacterial | 2015 10.15272/ajbps.v5i50.752 |

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| | and pharmaceutical science. | | | activity of Gelatin-herb nano composite. | |
| 33 | Journal of Chemistry and Chemical Sciences | UGC | ISSN 2229-760X (Print) | Synthesis and characterization of Certain Photocrosslinkable Thermotropic Liquid Crystalline Random Copolyesters Containing Bis-Chalcone Moiety | 2016 http://chemistry-journal.org/detail-chemistry-journal/254 |
| 34 | International Journal of Advanced Research | UGC | ISSN 2320-5407 (Online) | Ultrasonic wave assisted synthesis of iron and antibacterial silver nanoparticles | 2016 10.21474/IJAR01/1034 |
| 35 | Asian Journal of biochemical and pharmaceutical research | UGC | ISSN No: 2231- 2560 | Fabrication of herb encapsulated chitosan zinc oxide nanocomposites for improved antimicrobial activity. | 2016 |
| 36 | Asian Journal of biochemical and pharmaceutical research | UGC | ISSN No: 2231- 2560 | Potential wound management of herb fabricated chitosan – zinc oxide nanocomposite. | 2016 |
| 37 | International Journal of innovative research in science engineering. | UGC | ISSN No: 2347-3297 | Synthesis and characterization of collagen copper oxide nanocomposite incorporated with herb and their antibacterial applications. | 2016 https://ijirse.in/docs/Sep16/IJRSE160901.pdf |
| 38 | Journal of Chemical and Pharmaceutical Research | UGC | ISSN : 0975-7384 | Biocidal efficacy of synthetic copolyesters having chalcone moiety. | 2016 https://www.researchgate.net/publication/306140565_Biocidal_efficacy_of_synthetic_copolyesters_having_chalcone_moiety |
| 39 | Chemical Science Transactions | UGC | ISSN: 2278-3318 (Online) | Synthesis and Studies on Non-linear Optical Property of New | 2017 10.7598/cst2017.1357 |

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|----|--|-----|------------------------|--|---|
| | | | | Chalcone Based Polymers | |
| 40 | Journal of Chemistry and Chemical Sciences. | UGC | ISSN 2229-760X (Print) | Synthesis and Characterization of Cretain Chalcone Based Photocrosslinkable Copolyesters. | 2017 |
| 41 | International Journal of Advanced Research and Review | UGC | 2455-7277 | A Comparative study of Chitosan-Silver(I) oxide Nanocomposite and its Fabrication with Herb | 2017 http://dx.doi.org/10.29055/jccs/531 |
| 42 | Journal of Chemistry and Chemical Sciences | UGC | ISSN 2229-760X (Print) | Chemical characterization of ethanolic extract of Propolis of stingless Bees Collected from four different Districts of Tamilnadu in India | 2017 http://dx.doi.org/10.29055/jccs/525 |
| 43 | International Journal of Recent Scientific Research | UGC | 0976-3031 | Anticancer Activity of Chitosan-Zinc oxide Nanocomposite Fabricated with Herb | 2017 http://dx.doi.org/10.24327/ijrsr.2017.0811.1081 |
| 44 | Journal of Chemistry and Chemical Sciences | UGC | ISSN 2229-760X (Print) | Potential Wound Management by Herb incorporated Collagen-copper Oxide Nanocomposite | 2017 http://chemistry-journal.org/download/T-Sobana-Premlatha-and-S-Kothai-/CHEMISTRY-JOURNAL-CHJV07I09P0732.pdf |
| 45 | Journal of Chemistry and Chemical Sciences | UGC | ISSN 2229-760X (Print) | Extraction and a study on the Characterization of Collagen from Fish Scales | 2018 http://dx.doi.org/10.29055/jccs/547 |
| 46 | International Journal of Engineering Science and Computing | UGC | - | In Vitro and Insilico analysis of inhibition efficiency of synthetic random copolyester with chalcones moiety | 2018 https://ijesc.org/upload/cc757c0d24d62d7751829c26dede4df9 |

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|----|---|-----|-------------------------|---|---|
| | | | | against Human Pathogens | |
| 47 | Journal of Chemistry and Chemical Sciences, | UGC | ISSN 2229-760X (Print) | Design, Synthesis, Characterisation of Chalcone Derivatives PTSH and PITI and their potential anticancer properties against MDA-MB-231 Cell Lines | 2018 http://dx.doi.org/10.29055/jccs/634 |
| 48 | Int. Journal of Pharmaceutical Sciences and Research | UGC | ISSN 0975-8232 | Synthesis and characterization of chalcone based copolyesters and their Anticancer activity | 2018 10.13040/IJPSR.0975-8232 |
| 49 | Journal of Chemistry and Chemical Sciences | UGC | ISSN 2229-760X (Print) | Green Synthesis, Characterization of Copper Nanoparticles Derived from <i>Ocimum Sanctum</i> Leaf Extract and their Antimicrobial Activities | 2018 http://dx.doi.org/10.29055/jccs/670 |
| 50 | International Journal of Engineering Sciences & Research Technology | UGC | ISSN: 2277-9655 | Studies On Antimicrobial And Antioxidant Activity Of Honey | 2018 https://doi.org/10.5281/zenodo.1403377 |
| 51 | International Journal of Green and Herbal Chemistry | UGC | E-ISSN: 2278-3229 | Evaluation of Antimicrobial and Antioxidant Activity of Green Synthesized Copper Nanoparticles from the Leaf Extract of <i>Hibiscus Rosa-Sinensis</i> | 2018 10.24214/IJGHC/GC/7/4/83442 |
| 52 | International Journal of Pharmacy and | UGC | ISSN: 2321-3272 (print) | Antioxidant activity of Copper nanoparticles synthesised from | 2018 https://www.researchgate.net/publication/336640180_ANTIOXIDANT_ACTIVITY_OF_COPPER_NANOPARTICL |

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|----|--|----------------------|--|---|---|
| | Biological Sciences | | | the Leaf Extract of <i>Ocimum Sanctum</i> | ES_SYNTHESISED_FROM_THE_LEAF_EXTRACT_OF_OCIMUM_SANCTUM |
| 53 | International Journal of Green and Herbal Chemistry | UGC | E-ISSN: 2278-3229 | Synthesis, Characterisation and Investigation of Antibacterial Activity of Herb Incorporated Collagen-Silver (I) oxide Nanocomposites | 2019 10.24214/IJGHC/GC/8/1/01017 |
| 54 | Journal of Drug Delivery and Therapeutics | UGC | ISSN: 2250-1177 | Fabrication and Characterisation of Honey Loaded Microsponges | 2019 https://doi.org/10.22270/jddt.v9i4.3125 |
| 55 | International Journal of Pharmaceutical Sciences and Drug Research | UGC | ISSN:0975-248X | Formulation and Evaluation of Copper Nanoparticles Loaded Microsponges | 2019 https://doi.org/10.25004/IJPSDR.2019.110407 |
| 56 | Research Journal of Pharmacy and Technology | UGC – SCOPUS INDEXED | ISSN 0974-360X (Online) 0974-3618 (Print) | Effectiveness of copper nanoparticles loaded microsponges on drug release study, cytotoxicity and wound healing activity | 2020 10.5958/0974-360X.2020.00770.2 |
| 57 | International Journal of Chemical & Pharmaceutical analysis | UGC | ISSN (Print) :2395-2466 | In-Vitro antioxidant evaluation of Copolyesters bearing Chalcone moiety in the main chain. | 2020 10.21276/ijcpa |
| 58 | Journal of Science and Technology | UGC | 2456 5660 | A Review of Investigational Treatments for Covid-19- Zinc Supplementary | 2021 https://doi.org/10.46243/jst.2021.v6.i3 |

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| 59 | International Journal of Emerging technologies and innovative research | UGC | 2349-5162 | A study on the synthesis, characterization of chalcone moiety | 2021 http://doi.org/10.1729/Journal.127084 |
| 60 | International Journal of Pharmaceutical Research and Applications | UGC | 2456-4494 | Review on the importance of herbal hand sanitizers with the emergence of Covid-19 | 2021 10.35629/7781-0603702705 |
| 61 | Indian Journal of Chemical Technology | UGC – SCOP US INDEXED | 1996 3416 | Design and Fabrication of Hydrogel incorporated with copper nanoparticles loaded microspunge for antimicrobial and antioxidant activity | 2021 http://nopr.niscair.res.in/handle/123456789/58675 |

FDP/STTP

| S.no. | Organized by | State/National/International | Topic | Date(s) |
|-------|--|------------------------------|--|-----------------------------------|
| 1 | IQAC, Ethiraj College for Women, Chennai | State | Faculty Development Programme on Quality Publications & E-Learning | 19 th September, 2018. |
| 2. | Centre for Ocean Research, Sathyabama Technology Business Incubator, Department of Mechanical Engineering and the Institution of Engineers (India) | National | Progress from project to patent | 6.10.2020 to 12.10.2020. |

WEBINARS [National/International]

| S.no. | Organized by | State/National/International | Topic | Date(s) |
|-------|---|------------------------------|--|------------------------|
| 1. | Ethiraj College For Women | State | Patenting Inventions in India' | 16.5.2020 |
| 2 | Ethiraj College For Women | State | Impact Factor, H index and Google Scholar'' | 16.5.2020 |
| 3 | Ethiraj College For Women | State | Moodle LMS - Install, Create class, Add content and Enroll students | 28.5.2020 |
| 4 | Ethiraj College For Women | State | Advances in Materials Science | 29.5.2020 |
| 5 | Ethiraj College For Women | State | Turning Crisis to Opportunities | 16.6.2020 to 20.6.2020 |
| 6 | International Journal of Microbial Science and Jayawantrao Sawant College of commerce and Science, Hadapsar, Pune | International | Review article writing using MS-Word add in and Publication | 31.5.2020 |
| 8 | S.M.Shetty College of Science, Commerce & Management Studies, Powai, Mumbai | National | Doctoral Thesis: Key Components and Research Skills'' and ''Research Funding Opportunities : In India and Abroad | 14.5.2020 |
| 9 | Loyola Institute of Frontier energy (LIFE), Loyola College (Autonomous) | National | Taking Research Forward During the Pandemic | 20.5.2020 |
| 10. | INYAS | National | COVID-19 Pandemic: Impact and Strategies for Education Sector | 25.5.2020 |
| 11. | Shrimathi Devkunvar Nanalal Bhatt Vaishnav College For Women | National | A quick review on COVID-19 and its diagnostic tools | 30.5.2020 |
| 12. | Loyola College | National | Research Methodology | 12.6.2020 & 13.6.2020 |
| 13. | G. Venkataswamy Naidu College, Kovilpatti | National | Electrochemical Biosensors : Emerging trends and Applications | 18.6.2020 |

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| 14. | St.Peter's Institute of Higher Education and Research, Avadi | National | Advanced Nanomaterials and their Applications | 8.7.2020 |
| 15. | St. Vincent De Paul College, Eluru | National | Free Online Tools useful for Effective Chemistry Lecturing | 9.7.2020 |
| 16. | Department of Humanities and Sciences in association with Institution's Innovation Council REC | National | Conducting Polymer and Photovoltaic Device'' | 10.7.2020 |
| 17. | Government RBR NES College, Jashpur, C.G and Library, Government MDP College, Katghora | National | Plagiarism in Research and its Prevention | 30.7.2020 |
| 18. | Gangadhar Meher University, Amruta Vihar, Sambalpur, Odisha | National | Advanced Materials for Energy Storage and Fuel Cell Applications | 6.9.2020 – 7.9.2020 |

AWARDS:

1. Young Scientist Fellow (Tamil Nadu State Council for Science and Technology)
2. UGC – FIP Teacher Fellow, Year: 2000 – 2002.
3. President Guide – Best Guide Award from Former President of India Mr. Nilam Sanjeeva Reddy.
4. Received Best Research Awardee from the Ethiraj College for women for the year 2018.
5. Recipient of Samuga Saadhanaiyalar from Jambu Maharishi Society- 2018.
6. Received Best paper award in the International Conference conducted by Anna Adarsh College for women, 12th Sep 2018.
7. Awarded “Star of Education Award” by Global Achievers Council in association with global peace university on 21st July 2019.
8. Received Best paper award in the National Seminar conducted by Anna Adarsh College for women, 22th Aug 2019.
9. Received Aasiriyar Chemmal Virudhu by Tamilnadu kalvi aaraichi valarchi niruvanam on Sep 5th 2019.
10. Received Dr. Radhakrishnan teaching excellence award 2019- International Association of Lion clubs- 15th Sep 2019.

11. Received Kiran Bedi award from Levista, Change makers of Chennai & Radio city as a part of Women's day celebration at Ethiraj College for Women on 6th March 2020.
12. Awarded Distinguished Woman by Venus International Women award for the year 2020 on 7th March 2020.
13. Received Treasure Trove of Knowledge Award 2021- Mylai Thiruvalluvar Tamil Sangam on 8th March 2021.
14. Awarded Top 30 Dynamic Principal Award for Excellence and Leadership in Education- Dynergic Business Solution on 11th May 2021.
15. Received a research grant of Rs. 4,85,000/- (Four Lakhs and Eighty five thousand) from TNSCST (Tamilnadu State Council for Science and Technology) and DST (Department of Science & Technology) for research project for a period of two years.
16. Recognized as a Government Body member, Anna Adarsh College from 2020-2021 onwards.
17. Recognized as an Advising committee member, NSS, University of Madras.
18. Recognized as one of the Indian Women Scientist in Tamilnadu by TNSCST.
19. As Guest of Honour for the Virtual Graduation Ceremony of Alert voice, 26th June 2021.
20. Received Excellence award, DKIRF, June 2021.
21. Received Best Scientist award, Mylai Thiruvalluvar Tamil Sangam on 29th August 2021.
22. Received Distinguished Service award, Special minds, Global Excellence award, 24 – 26 September 2021.

OTHERS:

1. Member, Organizing Committee's for various National Symposium (NSMCRAC – 2001 conducted by Presidency College, RAMS – 2006 conducted by Vivekananda College, Co-convenor for work-shop conducted by UGC-cell).
2. Member, Ethiraj College for Women, Board of Studies (Chemistry)
3. Member, Dr. Ambedkar Govt. College, Board of Studies (Chemistry)
4. Member, Presidency College Board of Studies (Chemistry) - University Nominee - 2016.
5. Member, Govt. Arts College (Nandanam) Board of Studies (Chemistry)
6. Member, D.G. Vaishnav College, Chennai Board of Studies – University nominee.
7. Member, Ph.D. Doctoral Committee, Sathyabama University, University of Madras.

| Type of Activity | Year | Brief description of the activity |
|-------------------------|-------------|--|
| UGC Member | 2012-2017 | To act as a member of the Ethiraj College UGC Cell |
| UGC Coordinator | 2014-2017 | To act as Coordinator of the Ethiraj College UGC Cell |
| UGC Convener | 2014-2017 | UGC CPE grant phase III |
| UGC Coordinator | 2018 | To act as Coordinator of the Ethiraj College UGC Cell |
| Co Convener | 2016 | UGC Workshop |
| Staff Secretary | 2017-2018 | To act as Ethiraj College Staff Secretary for a period of 2 months |

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| IQAC Member | 2004-2008 | To act as a member of the Ethiraj College IQAC |
| Placement Cell incharge | 2008-2010, 2017 | Ethiraj College for Women – Placement Cell |
| Organizer | 2008-2010 | To teach Personality Development Course |
| Tea Committee | 2012 | Ethiraj College for Women -Tea Committee member |
| Public Relation team | 2013 | Ethiraj College for Women – Public relations team member |
| Research Coordinator | 2017 | To act as Research Coordinator of the Ethiraj College Research forum |
| Committee member | 2017 to till date | FIST- Ethiraj College for Women Purchase of Equipments, books, etc. |
| Committee member | 2018 | UGC – Ethiraj College for Women Building committee member |
| Magazine Editorial Board | 2003, 2010, 2018 | 1)Aurum 2003,2010, 2018- annual magazine of the department of Chemistry, Ethiraj College for Women. 2)College Magazine Editor, 2003. |
| Member | 2000-2018 | Board of Studies (Chemistry), Ethiraj College for Women. |
| Member, Board of Studies | Upto 2018 | 1)Board of Studies (Chemistry), Presidency College - University Nominee. 2)Board of Studies, SDNB Vaishnav College for Women, Chennai. 3)Board of Studies (Chemistry), D.G. Vaishnav College- University Nominee |
| Member | 2015 - 2018 | 1)Ph.D. Doctral Committee, Sathyabama University 2)Ph.D. Doctoral Committee, Loyola College, University of Madras. 3)Ph.D. Doctral Committee, Presidency College |
| Member | 2013 to 2018 | 1)Selection Committee, Central Council for Research in Siddha (2013) 2)Selection Committee, Loyola College (2014) 3)Examiner, TNPSC (2018) |
| Member | 2011 | Officiated as Judge National Science Seminar, School Education (2011) |
| Resource person | 2017 | Inspectional Committee, R.V. Government College, Chengalpattu, University of Madras- University appointed. |
| External examiner | 2018 | For conducting M.Sc. University Project viva-voce examination.(AM Jain) |

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| Member | 2013 | Academic Audit in the Dept. of Chemistry, DG Vaishnav College. |
| Resource person | 2004 | In service programme – Dept. of Collegiate Education |
| Examiners | Upto 2018 | Various College examinations evaluation work |