



RESUME

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Designation: Associate Professor

Area of Interest: Nano Science , Pharmacology , Health care

About me:

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Research scholar link: <https://scholar.google.com/citations?hl=en&user=kJH63UcAAAAJ>

Orchid ID : 0000-0001-6092-254X

Researcher ID : GLU-3489-2022

PROFESSIONAL INFORMATION:

PAPER PUBLICATIONS

1. Magnetically Recyclable Spinel $Mn_x Ni_{1-x} Fe_2 O_4$ ($x= 0.0-0.5$) Nano-photocatalysts: Structural, Morphological and Opto-magnetic Properties. Journal of Superconductivity and Novel Magnetism volume 29, pages477–486 (2016)
2. Comparative Study of Combustion Methods, Opto-Magnetic and Catalytic Properties of Spinel $CoAl_2O_4$ Nano- and Microstructures. Advanced Science, Engineering and Medicine, Volume 7, Number 8, August 2015, pp. 672-682(1) DOI: <https://doi.org/10.1166/asem.2015.1750>
3. Opto-magnetic and Catalytic properties of recyclable spinel $NiAl_2O_4$ Nanostructures facile combustion methods. Journal of Superconductivity and Novel Magnetism, 29 (2016) 253–263.

4. Photo-degradation of methylene blue dye and characterization studies of $\text{Co}_x\text{Ni}_{1-x}\text{Fe}_2\text{O}_4$ ($0.0 \leq x \leq 0.5$) spinel nano-catalysts, *Advanced Science, Engineering and Medicine*, Accepted, Article in Press (2016).

6. Synthesis theoretical and experimental spectroscopic characterization of isoniazid-benzoic acid drug complexes: In silico and invitro biological evaluations, *Journal of Indian Chemical Society*, Volume 100, Issue 3, March 2023.

7. Exploring the Drug Potential of Phytochemicals as a Novel Therapeutic Drug Candidate for Herpesvirus: An In-silico Evaluation. *Chemistry Africa* volume 6, pages 805–818 (2023)

8. Rosmarinic acid as a novel biomedical drug for inhibiting the replication of herpes and dengue viruses: An In-silico assessment. *Revista Brasileira de Farmacognosia*. <https://doi.org/10.1007/s43450-023-00381>.

9. Polymerization of acrylonitrile initiated by ceric ammonium sulphate glutamic acid redox system a kinetic study, *International Journal of Nano Corrosion Science and Engineering*. ISSN Online: 2395-7018 2(6) (2015) 51-63

10. Cyanobacterial Metabolites as Promising Neuroprotective Agents by Targeting Phosphoglycerate Kinase 1: Dynamic In Silico Approaches. *J. Comput. Biophys. Chem.* 2024, 23 (5), 691–708.

11. Synthesis and Characterization of ZnFe_2O_4 Nanoparticles via Microwave Combustion Method and Its Supercapacitor Application, ISSN 1063-7826, *Semiconductors*, 2025, Vol. 59, No. 5, pp. 465–473. © Pleiades Publishing, Ltd., 2025.

PATENTS PULISHED:

1. Home Made Pure Herbal serum, Publication date : 5.8.22. Application Number : 202241043642A.
2. Ammonia free herbal hair dye. Publication Date ; 17.2.23. Application Number : 202341004168A.
3. Control of CO_2 emission using nano materials in Lithium ion batteries. Publication Date : 17.2.23 Application No. 20234100877A.
4. Rechargeable or Hybrid Iron box Publication Date : 17.5.24 Application No. 202441035626A.
5. Production of Herbal mosquito repellent using waste material and to design, automatic low-

cost,portable Mosquito repellent Making Machine. 3.10.2024.Application No.202441074832 A

6. Production of Herbal Chalk piece using waste material and to design,automatic low-cost,portable Chalk piece Making Machine. 12.12.2024.Application No.202441098178 A

CERTIFICATIONS

NPTEL

1. Basic environmental engineering and Pollution abate, Elite, Oct2022

MEMEBERSHIP

1. RFI, Membership No : RFI/2022/MB/219
2. VIDWAN ID 280134

EDUCATION DETAILS

1. **Ph.D-chemistry** : (2013 -2018) in khadhir Mohideen College .Affiliated to Bharadhidasan University, Adirampattinam, Tamilnadu, India.
2. **Mphil – chemistry**: (2007-2008) in khadhir Mohideen College.Affiliated to Bharadhidasan University, Adirampattinam, Tamilnadu, India.
3. **Master of Science in chemistry** : (2005-2007) in khadhir Mohideen College Affiliated to Bharadhidasan University, Adirampattinam, Tamilnadu, India.
4. **Bachelor of Science in Chemistry** : (2002-2005) in Khadhir Mohaideen College, Affiliated to Bharadhidasan University, Adhirampattinam, Tamil Nadu, India.
5. **Bachelor of Education**: (2008-2009) in Thirumalai srinivasa college, Affiliated to Madras university, Thuraiyur, Tamilnadu, India.

EXPERIENCE DETAILS

- I had worked as PG assistant in **Rahmath girls .Mat.Hr.Sec.School,Muthupet** - 2yrs
- I handled various branches (D.EEE,D.ECE,D.E&I) in **Thiruthani polytechnic college, Thiruthani.** - 2 yrs
- I handled various branches (EEE,ECE,BIOTECH,CIVIL,E&I) **P.R Engineering college,Vallam,Thanjavur** - 1yr 3months
- I had worked as a guest lecturer in **Kunthavai Nachiyar Govt. Arts.Women college ,Thanjavur** - 2yr 6months
- Worked as a Chemical Consultant in **Jayasree Fire Safety Equipments.** - 4yrs 3months
- Presently working as a Assistant professor in **Prince shri venkateshwara padhmavathy engineering college.** - 2018 onwards

SPEECH DELIVERED TO FUNDED NATIONAL SEMINAR

Topic : “ Research scope for chemistry behind EVs”. In CSIR Sponsored Seminar “AI, IoT & advanced batteries in electric vehicles – a technological overview” at PSVP Engineering College , Chennai

CONFERENCE /WOS

1. Improving Data Science Automation via AI Driven System-ICERCS'23-IEEE International Conference on Emerging Research in Computer Science.
2. Optimising Solar Energy : An Evaluation of IOT- Based solar panel Monitoring Systems.E3S Web of Conference,540,08005 (2024).
3. Optimizing Quality of Service Parameters For Optical Networks-15th International Conference on Computing Communication and Networking Technologies (ICCCNT)/ [979-8-3503-7024/24/\\$31.00@2024](#) IEEE| DOI:10.1109/ICCCNT61001.2024.10724725.
4. Evaluating the Usefulness of Data Mining for Business Process Automation. (ICCCNT)/ [979-8-3503-7024/24/\\$31.00@2024](#) IEEE| DOI:10.1109/ICCCNT61001.2024.10723900.
5. Integrated Fuel cell and Electrolyzer Systems for Renewable Energy Storage and Conversion – ICRERA-2024-E3S Web of Conference,591,05004 (2024).
6. Time management Recommendations with Bayesian Neural Networks: An Intelligent Assistant Approach.2024 IEEE International Conference on Communication, Computing and Signal Processing. (IICCCS)[979-8-3503-9075-9/24/\\$31.00@2024](#) IEEE|DOI:10.1109/IICCCS61609.2024.10763590.
7. A Way to Design fog Computing Model for 5GNetwork Using Vanet. 2024 4th International Conference on Advanced Computing and innovative Technologies in Engineering(ICACITE)/ [979-8-3503-6016-5/24/\\$31.00@2024](#) IEEE| DOI:10.1109/ICACITE60783.2024.10617287.
8. Enhancing Real-TimeData Analysis Performance by Appling Adaptive Machine Learning Algorithms.2023 IEEE International Conference on Paradigm shift in Information TechnologyWith Innovative Applications in Global Scenario (ICPSITIAGS).
9. Wind Energy Forecasting based on integration of CNN and Bidirectional RNN.2023.International Conference for Technical Engineering and its Application in suitable Development.(ICTEASD)

WORKSHOP/ FDP ATTENDED:

1. “NCARC” National Conference at Bishop Heber College, Trichy, 6.2.2009.
2. “CRCBC” Workshop at Sri Pushpam College,poondi,,21.12.2008.
3. 3 rd IEEE International conference on computing & Communication Technologies at Sairam Engineering College. 21.02.2019 -22.02.2019.
4. Seven day Faculty Development Programme on Research methodology and Innovation PPG College of Arts & Science , 11.05.2020 to 16.05.2020
5. Short term Course on “Leadership skills for Teaching Professionals at PSVPEC , 05.12.2019
6. FDP on Effective Teaching Strategies & Methods at PSVPEC 21.11.2019 - 22.11.2019

7. National Conference on Emerging Trends in Sciences - Emerge 2020 at ARS college of Engineering, 08.05.2020 - 09.05.2020
8. Six day Faculty Development Programme on Virtual Practices and Teaching Learning at Dr. M. G. R. Educational & Research Institute 14.12.2020 to 19.12.2020.
9. Online Workshop on filing patents, IPR and copyrights. IQAC, PSVPEC 04.08.2020
10. National E-Conference on Mechanical, Mechatronics and Automobile Engineering 2020 (NCMMAE 2020) at Bharath University ,10.12.2020 to 11.12.2020.
11. One week online national level FDP on” Research methodology in Humanities & Social Sciences” at Lords institute of technology, Hyderabad , 29.5.21 to 3.6.21.
12. AICTE Sponsored ICAICT-22 International conference at PSVP Engineering college ,Chennai. 15.9.22 -17.9.22.
13. ICRASEM-2022 International Conference at Tagore Engineering College, Chennai ,25.1.23
14. IGMSE-2023 International Conference at SIMATS Engineering College ,Chennai, 27.2.23

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