Dr. G. GOPU
Assistant Professor

Contact

Address : Department of Industrial Chemistry
Alagappa University
Karaikudi – 630 003
Tamil Nadu, INDIA
Employee Number : 12410
Date of Birth : 20/06/1978
Contact Phone (Office) : +91 4565228836
Contact Phone (Mobile) : +91 9842368286
Contact e-mail(s) : gopug@alagappauniversity.ac.in,
Skype id : nggopi79

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

Teaching Experience: 13 Years

Research Experience: 18 Years

Additional Responsibilities

1. In charge: Department Net Centre
2. In charge –Instrumentation- Electrochemical work stations
3. Coordinator: Students grievances Cell, Career Guidance Cell
4. Organizer: Industrial Visit cum Education Tour, Village Placement Programme
5. Secretary: Department alumni association
6. University Representative for DDE exams

Areas of Research

Electrochemistry, Material Science.

Research Supervision / Guidance

Program of Study		Completed	Ongoing
Research	Ph.D.	-	05
	M.Phil.	07	-
Project	PG	16+	-

Publications

International		National		Others
Journals	Conferences	Journals	Conferences	Books / Chapters / Monographs / Manuals
27	26	-	17	4

Cumulative Impact Factor (as per JCR) : 134.675
h-index : 10
i10 index : 10
Total Citations : 346

Funded Research Projects

Ongoing Projects

S. No	Agency	Period		Project Title	Budget (Rs. In lakhs)
		From	To		
1	Alagappa University	10.02.2016	10.02.2018	Studies on Function of Host-Guest Molecules in Pharmaceutical research	0.8
2	Alagappa University	01.09.2019	30.08.2021	Theme-based research project on sensors and energy under RUSA PHASE 2.0	3.0

Events organized in leading roles

Number of Seminars / Conferences / Workshops / Events organized: 4

1. National Conference on Recent Advances in Textile and Electrochemical Sciences- 2012 - **Co-Convener**
2. International Conference on Recent Advances in Textile and Electrochemical Sciences-2013 - **Convener**
3. International workshop on "Frontier Areas in Chemical Technologies – 2014 **Organising Secretary**
4. International conference on "Frontier Areas in Chemical Technologies – 2016- **Organising Secretary**
5. International conference on "Frontier Areas in Chemical Technologies – 2017- **Organising Secretary**
6. International conference on "Frontier Areas in Chemical Technologies – 2019- **Organising Secretary**

Events Participated

Overseas Exposure / Visits

1. Malaysia
2. France

Membership in

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

1. Member, Board of Studies, Department of Industrial Chemistry

Resource persons in various capacities

Number of Invited / Special Lectures delivered: **05**

Recent Publications

2021

1. Rajendran Karkuzhali, Shanmugasundaram Manoj, Arulanandhu Diana Marcelin, **Gopu Gopalakrishnan**, G. Paruthimal Kalaignan, Byong-Hun Jeon, Subbaiah Muthu Prabhu*, *Oxalic acid-induced assembly of Co_xNi_{1-x}-bimetallic polyaniline nanocomposite: a bifunctional material for supercapacitor and chromium removal applications*, Journal of Nanostructure in Chemistry, Accepted: 7 July 2021 **(IF: 6.391)**
2. Ramadhass Keerthika Devi, Ganesan Muthusankar, Shen-Ming Chen*, **Gopu Gopalakrishnan**, *In situ formation of Co_3O_4 nanoparticles embedded N-doped porous*

carbon nanocomposite: a robust material for electrocatalytic detection of anticancer drug flutamide and supercapacitor application, Microchimica Acta 188 (2021) 1 – 15. **(IF: 5.833)**

3. Muthusankar Ganesan, Keerthika Devi Ramadhass, Ho-Chiao Chuang, **Gopu Gopalakrishnan***, *Synthesis of nitrogen-doped carbon quantum dots@ Fe2O3/multiwall carbon nanotubes ternary nanocomposite for the simultaneous electrochemical detection of 5-fluorouracil, uric acid*, and xanthine, Journal of Molecular Liquids 331 (2021), 115768. **(IF: 6.165)**

2020

4. A Amali Roselin, N Anandhan*, I Joseph Paneer Doss, G Gopu, KP Ganesan, R Paneer Selvam, *Acclimating the magnetic behavior of highly (117) oriented Bi4Ti 3-xMnxO12 thin films prepared sol-gel spin coating method*, AIP Conference Proceedings 2265 (2020), 030260. **(IF: 0.40)**
5. R Keerthika Devi, G Muthusankar, **G Gopu***, L John Berchmans, *A simple self-assembly fabrication of tin oxide nanoplates on multiwall carbon nanotubes for selective and sensitive electrochemical determination of antipyretic drug*, Colloids and Surfaces A: Physicochemical and Engineering Aspects 598 (2020) 124825. **(IF: 4.539)**
6. Murugan Sethupathi, Arumugam Jayamani, Ganesan Muthusankar, Perumal Sakthivel, Karuppannan Sekar, Sivaraman Gandhi, Nallathambi Sengottuvelan*, **Gopalakrishnan Gopu**, Chellappan Selvaraju, *Colorimetric and fluorescence sensing of Zn^{2+} ion and its bio-imaging applications based on macrocyclic "tet a" derivative*, Journal of Photochemistry and Photobiology B: Biology 207 (2020) 111854. **(IF: 6.252)**
7. R Panneerselvam, N Anandhan*, **G Gopu**, KP Ganesan, T Marimuthu, *Impact of different transition metal ions in the structural, mechanical, optical, chemico-physical and biological properties of nanohydroxyapatite*, Applied Surface Science, 506 (2020) 144802. **(IF: 6.707)**
8. Ganesan Muthusankar, Ramadhass Keerthika Devi, **Gopalakrishnan Gopu**, *Nitrogen-doped carbon quantum dots embedded Co_3O_4 with multiwall carbon nanotubes: An efficient probe for the simultaneous determination of anticancer and antibiotic drugs*, Biosensors and Bioelectronics, 150 (2020) 111947. **(IF: 10.618)**
9. Soma Sundaram Meenakshi Sundaram, Selvam Karthick, Krishnamurty Sailaja, Rajendran Karkuzhali, **Gopalakrishnan Gopu***, *Theoretical study on cyclophane amide molecular receptors and its complexation behavior with TCNQ*, Journal of Photochemistry and Photobiology B: Biology, 203 (2020) 111735. **(IF: 6.252)**
10. Murugan Sethupathi, Ganesan Muthusankar, Vijayan Thamilarasan, Nallathambi Sengottuvelan*, **Gopalakrishnan Gopu**, Nadar Manimaran Vinita, Ponnuchamy Kumar, Franc Perdih, *Macrocyclic "tet A" derived colorimetric sensor for the detection of mercury cations and hydrogen sulphate anions and its bio-imaging in living cells*, Journal of Photochemistry and Photobiology B: Biology, 203 (2020) 111739. **(IF: 6.252)**

2019

11. KP Ganesan, N Anandhan*, **G Gopu**, A Amaliroselin, T Marimuthu, R Paneerselvam, *An enhancement of ferromagnetic, structural, morphological, and optical properties of Mn-doped Cu_2O thin films by an electrodeposition technique*, Journal of Materials Science: Materials in Electronics, 30 (2019) 19524 – 19535. **(IF: 2.478)**
12. Karthick Selvam, Sivaraman Gandhi, Sailaja Krishnamurty, **Gopu Gopalakrishnan***,

Effect of substitution on the excited state photophysical and spectral properties of boron difluoride curcumin complex dye and their derivatives: A time dependent-DFT study, Journal of Photochemistry and Photobiology B: Biology, 199 (2019) 111595. **(IF: 6.252)**

13. Ganesan Muthusankar, Murugan Sethupathi, Shen-Ming Chen*, Ramadhass Keerthika Devi, Rajendran Vinoth, **Gopalakrishnan Gopu***, Narayanasamy Anandhan, Nallathambi Sengottuvelan, *N-doped carbon quantum dots@ hexagonal porous copper oxide decorated multiwall carbon nanotubes: a hybrid composite material for an efficient ultra-sensitive determination of caffeic acid*, Composites Part B: Engineering, 174 (2019) 106973. . **(IF: 9.078)**
14. A Amali Roselin, N Anandhan*, **G Gopu**, I Joseph Panneer Doss, KP Ganesan, R Paneer Selvam, T Marimuthu, G Sivakumar, *Electrochemical sensor for the detection of lead ions of B-site-doped bismuth titanate perovskite thin film*, Applied Physics A, 125 (2019) 1 -15. **(IF: 2.584)**
15. A Amali Roselin, N Anandhan*, **G Gopu**, V Dharuman, *Physicochemical and electrochemical analysis of rare earth metal doped BTO perovskite thin films*, AIP Conference Proceedings, 2115 (2019) 030302. **(IF: 0.40)**
16. Ganesan Muthusankar, Chellakannu Rajkumar, Shen-Ming Chen*, Rajendran Karkuzhali, **Gopalakrishnan Gopu***, Arumugam Sangili, Nallathambi Sengottuvelan, Raman Sankar, *Sonochemical driven simple preparation of nitrogen-doped carbon quantum dots/SnO_2 nanocomposite: A novel electrocatalyst for sensitive voltammetric determination of riboflavin*, Sensors and Actuators B: Chemical, 281 (2019) 602 – 612. **(IF: 7.460)**

2018

17. Arumugam Jayamani, Rajesh Bellam, **Gopalakrishnan Gopu**, Stephen O Ojwach, Nallathambi Sengottuvelan*, Copper (II) complexes of bidentate mixed ligands as artificial nucleases: Synthesis, crystal structure, characterization and evaluation of biological properties*, Polyhedron 156 (2018) 138 – 149. **(IF: 3.052)**
18. Ganesan Muthusankar, Arumugam Sangili, Shen-Ming Chen*, Rajendran Karkuzhali, Murugan Sethupathi, **Gopalakrishnan Gopu***, Selvam Karthick, Ramdhass Keerthika Devi, Nallathambi Sengottuvelan, *In situ assembly of sulfur-doped carbon quantum dots surrounded iron (III) oxide nanocomposite; a novel electrocatalyst for highly sensitive detection of antipsychotic drug olanzapine*, Journal of Molecular Liquids 268 (2018) 471 – 480. **(IF: 6.165)**
19. Arumugam Jayamani, Soundarajan Nagasubramanian, Vijayan Thamilarasan, Stephen O Ojwach, **Gopalakrishnan Gopu**, Nallathambi Sengottuvelan*, *In-situ nickel (II) complexes of 3-(dimethylamino)-1-propylamine based Schiff base ligands: Structural, electrochemical, biomolecular interaction and antimicrobial properties*, Inorganica Chimica Acta 482 (2018) 791 – 799. **(IF: 2.545)**
20. Ganesan Muthusankar, Ragu Sasikumar, Shen-Ming Chen, Gopalakrishnan Gopu, Nallathambi Sengottuvelan, Syang-Peng Rwei, *Electrochemical synthesis of nitrogen-doped carbon quantum dots decorated copper oxide for the sensitive and selective detection of non-steroidal anti-inflammatory drug in berries*, Journal of colloid and interface science, 523 (2018) 191 – 200. **(IF: 8.128)**

2017

21. M Karthikeyan, N Anandhan, A Amali Roselin, V Shanmugapriya, G Gopu, V Dharuman, *Preparation And Characterization Of Lead Oxide Thin Films By Chemical*

Bath Deposition Technique, Journal of Physical Sciences 1 (2017) 88 – 92. **(IF: 1.01)**

2014

22. Lakshmi, A., Gopu, G., Thanikaikarasan, S., Mahalingam, T., Alvarez, P., Sebastian, P. J., &Vedhi, C. (2014). Electroanalysis of Diazepam on Nanosize Conducting Poly (3-Methylthiophene) Modified Glassy Carbon Electrode, Journal of New Materials for Electrochemical Systems, *190*, 185–190. **(IF: 0.259)**

2013

23. Lakshmi, A., Anandha Raj, J., Gopu, G., Arumugam, P., & Vedhi, C. (2013). Electrochemical, electrochromic behaviour and effects of supporting electrolyte on nano-thin film of poly (3,4-ethylenedioxy thiophene). *Electrochimica Acta*, *92*, 452–459. **(IF: 6.901)**

2012

24. Gopu, G., Muralidharan, B., Vedhi, C., & Manisankar, P. (2012). Determination of three analgesics in pharmaceutical and urine sample on nano poly (3, 4-ethylenedioxythiophene) modified electrode. *Ionics*, *18*, 231–239. **(IF: 2.817)**
25. Irudaya Antonat Sophia, **G. Gopu**, C. Vedhi (2012). Synthesis and Characterization of Poly Anthranilic Acid Metal Nanocomposites. Open Journal of Synthesis Theory and Applications, 1, 1–8. (**IF; 6.2**)

2011

26. Balathandapani Muralidharan, **Gopalakrishnan Gopu**, Saraswathy Laya, Chinnapiyan Vedhi, Paramasivam Manisankar, *A Study on Preparation and Use of Nano Poly Pyrrole and Nano Poly (3, 4-Ethylenedioxythiophene) Coated Glassy Carbon Electrode For The Determination of Antihistamine in Pharmaceutical Sample*, Materials Sciences and Applications 2 (2011) 957. **(IF: 1.67)**

27. **Gopalakrishnan Gopu**, Paramasivam Manisankar, Baladhandapani Muralidharan, Chinnapiyan Vedhi, Stripping voltammetric determination of analgesics in their pharmaceuticals using nano-riboflavin-modified glassy carbon electrode, International Journal of Electrochemistry, DOI: 10.4061/2011/269452. **(IF: -)**

2009

28. B Muralidharan, **G Gopu**, C Vedhi, P Manisankar, *Determination of analgesics in pharmaceutical formulations and urine samples using nano polypyrrole modified glassy carbon electrode*, Journal of applied electrochemistry 39 (2009) 1177 – 1184. **(IF: 2.8)**

2008

29. B Muralidharan, **G Gopu**, C Vedhi, P Manisankar, *Voltammetric determination of analgesics using a montmorillonite modified electrode*, Applied clay science 42 (2008) 206 – 213. **(IF: 5.467)**