

M. GANAPATHI - Curriculum Vitae

Personal Details



Name: M.Ganapathi

Date of Birth: 10.10.1981

Age: 40

Sex: Male

Marital Status: Married

Nationality: Indian

Current Address:

Assistant Professor
Department of Chemistry
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Madurai (Dt) – 625 402
Tamil Nadu
India

PROFESSIONAL SYNOPSIS

A Qualified M.Sc., M.Phil., B.Ed., PhD. with specialization in Materials and Electrochemistry. Endowed with excellent relationship management, analytical, communication and Teaching skills.

EDUCATIONAL CREDENTIALS

- **PhD, (Chemical science)**, expected on September 2013, Department of material science, KU Leuven, Belgium
- **M. Phil (Chemistry)**, Madurai Kamaraj University, in 2007 with 2nd class
- **B.Ed, (Physical Science)**, Government College of Education, in Orathanadu, 2006, with 71.3%
- **M.Sc (Chemistry)**, The American College, Madurai, in 2006, with 64%
- **B.Sc (Chemistry)**, Madurai Kamaraj University, in 2003 with 84.5%
- **H.Sc.**, Tamil Nadu State Board of Education, in 1999 with 75%
- **S.S.L.C.**, Tamil Nadu State Board of Education, in 1997 with 81%

RESEARCH SKILLS & EXPOSURE

- Experience in air sensitive compounds in glove box and Schlenk line
- Handle SEM, XRD, AAS, XRF and Potentiostat/Galvanostat
- Analyze TGA, DSC, TEM, Raman and IR spectroscopy technique.

RESEARCH EXPERIENCES

- **PhD thesis:** Electrodeposition from acetamide-dimethyl sulfone eutectic melts at KU Leuven, Belgium
- **Predoctoral Fellow:** Electrolytic codeposition of composite materials from Deep Eutectic Melt at KU Leuven, Belgium.
- **Research assistant:** Study on Lithium Cobalt Oxide Thin film Micro battery, Lithium/Air battery and MnO₂ super capacitors at IPC Dept, Indian Institute of Science, Bangalore
- **Summer research fellow:** Study on Intercalation of carboxymethyl cyclodextrin into layer double hydroxide at IPC Dept, Indian Institute of Science, Bangalore
- **Master thesis:** A study on Synthesis and Characterization of Metal complexes of 2-(O-Hydroxyphenyl)-5,6-Benzo1,3-Oxazine at The American College, Madurai

TEACHING EXPERIENCES

- **Undergraduate** – 9 years
- **Postgraduate** – 8 years

RESEARCH INTEREST

- Lithium ion batteries, Thin Film Lithium Batteries, Electrochemical supercapacitors and Fuel Cells.
- Electrodeposition of metals and alloys from Ionic liquids and Deep eutectic melts.
- Electrochemical preparation of active catalysis by chemical and electrochemical leaching of alloy precursors.
- Electrolytic codeposition of composite materials.

PUBLICATION

1. Thamaraichelvan M., Ganapathi M., Harish H., Venkata Narayanan N.S., Duraipandi P. (2022). Electrocatalytic Oxidation of Hydrazine Using a Cobalt Bis(thiosemicarbazone) Complex. *Top Catal*, DOI: 10.1007/s11244-022-01584-8.
2. Fow, K. L., **Ganapathi, M.**, Fransaer, J., Binnemans, K. De Vos, D. (2013). Catalytically active gauze-supported skeletal nickel prepared by electrodeposition from an acetamide–dimethyl sulfone eutectic mixture. *Catalysis Today*, 246, 191-197.
3. Fow, K. L., **Ganapathi, M.**, Fransaer, J., Binnemans, K. De Vos, D. (2013). Highly active gauze-supported skeletal nickel catalysts. *ChemComm*, 49 (76), 8498-8500.
4. Nguyen, H., Peng, X., **Ganapathi, M.**, Vullers, R., Vereecken, P., Fransaer, J. (2013). Electrodeposition of antimony, tellurium and their alloys from molten acetamide mixtures. *Journal of the Electrochemical Society*, 160 (2), D75-D79.
5. **Ganapathi, M.**, Eliseeva, S., Brooks, N., Soccol, D., Fransaer, J., Binnemans, K. (2012). Electrodeposition of luminescent composite metal coatings containing rare-earth phosphor particles. *Journal of Materials Chemistry*, 22 (12), 5514-5522.
6. Schaltin, S., **Ganapathi, M.**, Binnemans, K., Fransaer, J. (2011). Modeling of aluminium deposition from chloroaluminate ionic liquids. *Journal of the Electrochemical Society*, 158 (10), D634-D639
7. Nimisha, C.S., **Ganapathi, M.**, Munichandraiah, N., Mohan Rao, N. M. (2009). Studies on the Target Conditioning for Deposition of LiCoO₂ Films. *Vacuum*, 83 (6), 1001-1006
8. Ganapathi, M., Fow, K. L., Fransaer, J., Binnemans, K. De Vos, D. Electrochemical preparation of gauze-supported Raney cobalt from acetamide–dimethyl sulfone eutectic melt and its catalytic activity. (To be submitted)
9. Ganapathi, M., Stappers, L., Fransaer, J., Binnemans, K. Electrocodeposition of oxide particles with metals and alloys from acetamide-dimethyl sulfone eutectic melts. (To be submitted)

INTERNATIONAL CONFERENCE

1. **Ganapathi, M.**, Soccol, D., Binnemans, K., Fransaer, J. (2011). Electrodeposition of nickel composite coating from a new type of acetamide-DMSO₂-NiCl₂ ternary electrolyte. 220th ECS Meeting, Boston, MA (USA), 9 -14
2. Nguyen, H., Peng, X., **Ganapathi, M.**, Vullers, R., Vereecken, P., Fransaer, J. (2011). Deep Eutectic Mixtures of Acetamide and SbCl₃ for Sb Electrodeposition. 219th ECS Meeting, Montreal, Canada, 2326 (37)
3. Nimisha, C.S., **Ganapathi, M.**, Munichandraiah, N., Mohan Rao, N. M. (2008). High Capacity LiCoO₂ Thin film cathode on Stainless steel substrate prepared by RF sputtering" in International Conference on Electrochemical Power Systems, Thiruvananthapuram, INDIA, 26-28
4. Devaraj, S., **Ganapathi, M.**, Munichandraiah, N. (2008). The effect of crystallographic structure of MnO₂ on its electrochemical capacitance properties. 24th Annual In-house seminar of ISRO-IISc Space Technology, Bangalore.

SEMINAR/WORKSHOP

1. Oral Presentation in the UGC, CRSI, and TNSCST sponsored National Seminar on “Challenges in the front of Chemists in the Global Scenario” Organized by Department of Chemistry, Devanga Arts College, Aruppukottai on 15th & 16th September, 2008.
2. Participated in the UGC Sponsored National seminar on “Modern Trends in Chemistry (MTC-20)” organized by PG and Research Department of Chemistry, Vivekananda College, Tiruvedakam West on 30th & 31st January 2015.
3. Participated in the One Day Seminar on “Modern Trends in Chemistry (MTC-21)” organized by PG and Research Department of Chemistry, Vivekananda College, Tiruvedakam West on 28th March 2015.
4. Participated in the One Day National Seminar on “Writing Skills of Minor, Major Projects and Proposal for Conferences, Seminars and Workshops” organized by the Department of Library and Department of Science, Rev.Jacob Memorial Christian College, Ambilikikai on 12th September 2015.
5. Participated in the “International Symposium on Emerging Trends in Bio-Chem-Natraceuticals” organized by Department of Chemistry, Zoology and Home Science with Food Biotechnology held on December 4, 2015.
6. Participated in the “UGC Sponsored State Level Seminar on Expanding Frontiers in Chemistry (EFC-16)” Organized by Department of Chemistry, Arul Anandar College, Madurai on 23rd September 2016.
7. Participated in the One Day Seminar on “Modern Trends in Chemistry (MTC-21)” organized by PG and Research Department of Chemistry, Vivekananda College, Tiruvedakam West on 9th March 2017.
8. Participated in the “National Symposium on Recent Trends in Chemistry” organized by Department of Chemistry, The American College, Madurai 24th March, 2017.
9. Participated in the UGC Sponsored State Level Seminar on “Frontiers in Chemistry (FIC-2017)” organized by Department of Chemistry, The Madura College on 18th December 2017.
10. Participated in the Science Academies of India sponsored (IASc, INSA, NASI) “Three Day Lecture Workshop on Emerging Trends in Inorganic Chemical Biology” Organized by Department of Chemistry, Devanga Arts College, Aruppukottai on 29-31 January 2018.
11. Attended International Conference on “Innovative Trends in Chemical Science (ITCS-2019), Organized by Department of Chemistry, Devanga Arts College, Aruppukottai on 4th&5th of February 2019.
12. Participated in the One Day Seminar on “Group Theory and Spectroscopy” Under UGC Autonomy Grant Organized by PG and Research Department of Chemistry, Vivekananda College, Tiruvedakam West on 26th February 2019.
13. Participated in the International Seminar on “Advanced Materials (AM-2019)” organized by the department of Material Science and Physical Chemistry, School of Chemistry, Madurai kamaraj University, Madurai on 23rd September 2019.
14. Participated in the National Conference on “Current Innovations of Chemistry to Solve Social and Industrial Problems” Organized by Saiva Bhanu Kshatriya College, Aruppukottai on 21st February 2020.
15. Attended “Two days In-Service Teacher Training programme” organized by Tamilnadu State Council For Higher Education in Sri Meenakshi Government Arts College for Women (Autonomous), Madurai on 5 & 6 May 2022.

ORIENTATION PROGRAMME / REFRESHER COURSE / FDP

1. Participated in the “Orientation Programme for the newly appointed Teachers” organized by Vivekananda College, Tiruvedakam West, Madurai from 09.08.2018 to 14.08.2014
2. Attended “faculty Training and Motivation Program (FTMP), Organized by the Central Electrochemical Research Institute, Karaikudi from 08.09.2014 to 10.09.2014 at CSIR-CECRI, Karaikudi.
3. Attended “Two Days Workshop for the College Chemistry Faculties” Organized by the Department of Chemistry, Central University of Tamilnadu on 13th and 14th March, 2015
4. Attended “UGC Sponsored Orientation Programme” organized by University Grants Commission, Human Resource Development Centre, Madurai Kamaraj University, Madurai from 27.10.2015 to 23.11.2015.
5. Participated in the “One Day Orientation Programme for RRC Programme Officers and Volunteers” Organized by the Red Rippon Club on 16th February 2016.
6. Participated in the “UGC Sponsored Refresher Course” Organized by the University Grants Commission, Human Resource Development Centre, Bharathiar University, Coimbatore from 04.07.2018 to 24.07.2018.
7. Attended “Faculty Development program on Nanomaterials Characterization Techniques and Results Analysis Methodology: Ideas, Innovations & Initiatives (Chemistry) organized by Faculty Development Centre (PMMMNMITT), UGC-Human Resource Centre, Savitribai Phule Pune University from 27.07.2020 to 31.07.2020.
8. Participated in the UGC Sponsored Refresher Course in Chemistry (IDC), Organized by the University Grants Commission, Human Resource Development Centre, Devi Ahilya Vishwavidyalaya, Indore from 11.01.2022 to 24.01.2022 (Online mode)

RESOUCCE PERSON / JUDGE

1. **Judge** - 46th Jawaharlal Nehru State Level Science Exhibition” held in the O.C.P.M Girls Hr. Sec. School on from 22.11.2018 to 24.11.2018.
2. **Judge** - Madurai District Level “Elocution competition” organized by Youth Red Cross Zone, Madurai Kamaraj University held at Vivekananda College, Tiruvedakam West, Madurai on 7th August 2018.
3. **Judge** - Madurai District Level “Elocution competition” organized by Youth Red Cross Zone, Madurai Kamaraj University held at Vivekananda College, Tiruvedakam West, Madurai on 28.08.2019
4. **Judge** - “State Level Inter-Collegiate Meet-GANANITANTRA-2K20” Organized by Department of Computer Science, Vivekananda College, Tiruvedakam West, Madurai on 31st January 2020.

PROGRAMME ORGANIZED (CONVENER / COORDINATOR / SECRETARY)

1. **Convener** - Student Development Programme on “Structure Determination of Natural Products” on 30.07.2020.
2. **Convener** - One-Day International Webinar On “Challenges & Opportunities for Chemist in India and Abroad” on 28.08.2021
3. **Convener** - Online Faculty Enrichment programme On “Needs and Metrics of Green Chemistry” on 31.03.2022
4. **Convener** - Aluminar –III on “Cracking Journey to the Destiny” on 12.03.2022
5. **Convener** - Faculty Enrichment Programme on “Recent Trends in Electrochemical Energy Devices” on 18.03.2021.
6. **Convener** - One Day International Webinar on “Modern Trends in Chemistry” on 23rd December.
7. **Coordinator** - One Day International Webinar on “Solar Cell for Sustainable Future” on 28.07.2020.

8. **Coordinator** - Faculty Enrichment Programme on “*Modern Trends in Chemistry*” on 21.03.2021.
9. **Secretary** - Two Day National E-Conference on “Modern Trends in Chemistry (MTC-27)” on 9th & 10th December 2021.
10. **Secretary** - International Conference on “Modern Trends in Chemistry (MTC-25)” on 23.02.2018

MEMBERSHIP IN PROFESSIONAL BODIES

- Member in National Council of Teacher Scientist, India
- Member- Board of Studies for B.Sc Chemistry from 2019 to 2022.
- Member – Board of Studies Meeting of B.Sc., Chemistry held at Devanga Arts College (Autonomous), Aruppukottai, on 04.11.2019

AWARDS AND ACHIEVEMENTS

- JNCASR Summer Research Fellowship award in 2003
- University Rank Holder in B.Sc Chemistry, Madurai Kamaraj University
- University C-Zone Cricket player, Madurai Kamaraj University in 2003

TEACHING EXPERIENCE

- Assistant Professor of Chemistry, Devanga Arts College, Aruppukottai - June, 2006 to December, 2006
- Assistant Professor of Chemistry, Sri Kaliswari College, Sivakasi – December, 2006 to May, 2007
- Assistant Professor of Chemistry, Vivekananda College, Tiruvedakam West, Madurai – July 2014 to Till Date

REFERENCES

Prof. Koen Binnemans Molecular design and synthesis Celestijnenlaan 200f - box 2404 Leuven- 3000, BELGIUM. Email: Koen.Binnemans@chem.kuleuven.be URL: http://www.kuleuven.be/wieiswie/en/person/u0007851	Prof. N. Munichanraiah Materials Electrochemistry Lab, Inorganic and Physical chemistry dept. Indian Institute of Science Bangalore 560 012, INDIA. E- mail: muni@ipc.iisc.ernet.in URL: http://ipc.iisc.ernet.in/~muni/index.html
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