

## BIODATA

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### Educational Qualifications

Course	Year of passing	Institute/University	% of marks	Class Obtained
Ph.D.	Oct. 2007	Bangalore University Bangalore	Awarded	
M.Phil.	1999	Bangalore university	65.2	First
M. Sc. in Chemistry (Physical )	1997	Bangalore university	63.2	First

**Other Qualification(s):** Passed National Eligibility Test (NET), Eligibility for Lectureship in Joint UGC-CSIR Exam.2001.

### Positions Held (Work experience)

- Presently, Professor, Dept. of Chemistry, Bangalore University, Bangalore-56, since 26<sup>th</sup> July 2019.
- Associate Professor, Dept. of Chemistry, BUB, Due from 29<sup>th</sup> May 2019.
- Assistant Professor, Dept. of Chemistry, BUB, from 29<sup>th</sup> May 2007.
- Lecturer in GFGC for Women, Chintamani, 24<sup>th</sup> June 2006 to 28<sup>th</sup> May 2007.
- HOD of Chemistry (Lecturer - Senior Lecturer), New Horizon College of Engineering, Bangalore, 2001 – 2006.

### My PhD work

*Title of thethesis:* Photocatalytic UV-degradation of environmentally hazardous pesticides and chloroorganic compounds using semiconductor particles.

*Research Guide:* Dr. L. Gomathi Devi, professor of physical chemistry, Dept. of Chemistry, Bangalore University, Central college campus, Bangalore- 560 001.

**M.Phil. Dissertation Title:** Heterogeneous photocatalytic degradation of a pesticide 2-chloro-2-phenoxyacetic acid (MCPA); *Research Guide:* Prof. L. Gomathi Devi, BUB.

**Research Experience:**

- Assist. Professor to Professor and till date: About 14 years.
- Research Fellow, Rallis India Ltd (an Agrochemical R&D Centre), Bangalore, Aug 2008 - Feb 2009, 6 months.

**Courses Done:**

***Orientation Course***(from 3<sup>rd</sup> March to 1<sup>st</sup> April 2009. Obtained ‘A’ grade); ***Refresher Course***(from 12<sup>th</sup> march to 2<sup>nd</sup> April 2012. Obtained ‘A’ grade); **Short term course** (from 19<sup>th</sup> march to 24<sup>th</sup> March 2018), UGC-Academic Staff College, Bangalore University, Central College campus Bangalore -01/ Jnabharathi Campus, Bangalore -56.

**Current Research Areas:**

- ***Energy Materials:*** H<sub>2</sub> Storage, Nanomaterials: Carbon nanomaterials, Metal-Organic frameworks; Preparation/ modification and study of their energy/environmental applications.
- ***Electrocatalysts for Fuel Cells/ Super capacitors:*** Preparation, Characterization and Application studies of Non-noble electrocatalysts.
- ***Environmental:*** Chemical/ biomolecular sensors; Green Synthesis of Organic molecules; Studies on Water Decontamination by Advanced Oxidation Process(Photocatalysis).

**Research papers published in Journals**

1. Sangeetha S., Jayasree A. C., Kalyan Raj, Prasad N. L., Krishnamurthy G. & Nagashree K. L. (2021): Cobalt metal-organic framework for low concentration detection of glucose, Inorganic and Nano-Metal Chemistry, DOI: 10.1080/24701556.2021.1966451.
2. S Sangeetha, G Krishnamurthy, Sabine Foro, Kalyan Raj, AC Jayasree, Multi-applications of new trinuclear Zr-SMI complex, Journal of Molecular Structure, Volume 1234, 02 June **2021**, 129991.
3. R. Namitha, D. Radhika, Karthik Kannan, G. Krishnamurthy, Manufacturing and Processing of Carbon Nanotubes for H<sub>2</sub> Storage, Physics and Chemistry of Solid State, V. 22, No. 2 (**2021**) pp. 209-216, **DOI: 10.15330/pcss.22.2.209**.
4. S. Sangeetha and G. Krishnamurthy, “Electrochemical and photocatalytic applications of Ce-MOF” Bulletin material of Science, 43,269, 6 June **2020**, <http://doi.org/10.1007/s12034-20-02225-0>.
5. S. Sangeetha, G. Krishnamurthy, Sabine Foro, Kalyan Raj “Energy Storage, Applications of Cobalt and Manganese Metal–Organic Frameworks” Journal of Inorganic and Organometallic Polymers and Materials. 30, 2 June **2020**, 4792–4802, <http://doi.org/10.1007/s10904-020-01593-8>.
6. R Namitha, K Kannan, D Radhika, G Krishnamurthy, Solvothermal/Hydrothermal Manufacturing of Carbon Nanotubes for Hydrogen storage: A Comparative Study, Physics and Chemistry of Solid State 21 (4), **2020**, 700-706.
7. Omkarmurthy B M, G Krishnamurthy, Prasad N L, Two new Zn(II) bdc Metal –organic frameworks based on benzene 1,4-dicarboxylic acid: Synthesis, crystal structure, Luminescent properties and electrochemical studies, Materials Today: Proceedings, Science Direct. Vol.22, 2179–2190, 4 May **2020**, [doi.org/10.1016/j.matpr.2020.03](https://doi.org/10.1016/j.matpr.2020.03).
8. B M Omkarmurthy, G Krishnamurthy and S Foro, Synthesis and characterization of mesoporous crystalline copper metal–organic frameworks for electrochemical energy storage application, SN Applied Sciences, Springer, Vol.2, March **2020**, <http://doi.org/10.1007/s42452-020-2051-6>, P 342.

9. G. Krishnamurthy and G. Veeresh, A facile one pot synthesis of MoO<sub>3</sub> on Reduced Graphene Oxide (RGO) and electrochemical studies for energy applications, *Materials research express*, IOP publishing, 6, August **2019**. 094013. • DOI:10.1088/2053-1591/ab2d3d.
10. B. M. Omkaramurthy & G. Krishnamurthy; Synthesis, characterization, crystal structure, and electrochemical study of zinc(II) metal-organic framework, *Inorganic and Nano-Metal Chemistry*, September **2019**; 49:11, 375-384, DOI: 10.1080/24701556.2019.1661460.
11. BM Omkaramurthy, G Krishnamurthy, S Foro; Electrocatalytic activity and chemical sensor application of Mn-MOF: synthesis, crystal structure and photo luminescent properties, *Materials Research Express*; IOP publications, 6 (12), January **2020**, 125544.
12. S Sangeetha, G Krishnamurthy, Fabrication of MOF-177 for electrochemical detection of toxic Pb<sup>2+</sup> and Cd<sup>2+</sup> ions, *Bulletin of Material Science*, Indian Academy of Sciences-Springer, 7(1) Jan **2020**, 43:29 <https://doi.org/10.1007/s12034-019-1979-x>.
13. S. Sangeetha, and G. Krishnamurthy, M.Srinidhi Raghavan, Electrochemical sensing and photocatalytic degradation of methylene blue(MB)dye by cobalt-betahydroxybenzoate complex, *Materials Science in Semiconductor Processing*, IOP publishing, 101 (**2019**) 164–173. <https://doi.org/10.1016/j.mssp.2019.05.016>.
14. M S Shivakumar, G Krishnamurthy, C R Ravikumar, Aarti Bhatt, Decoration of silver nanoparticles on activated graphite substrate and their electrocatalytic activity for mathematical oxidation, *Journal of Science: Advanced Materials and Devices*, Elsevier, 4(**2019**) 290-298.
15. S Sangeetha, G Krishnamurthy and S Foro, Chelated Zn–Metal–Organic Frameworks: Synthesis, Crystal Structure and Electrochemical Energy Storage, *Journal of Inorganic and Organometallic Polymers and Materials*, Springer, 29 January **2020**, 30:2562–2571, DOI :10.1007/s10904-020-01455-3.
16. M S Shivakumar, G Krishnamurthy, Deposition of Cobalt nanoparticles on reduced Graphene oxide and the Electrocatalytic activity for Methanol and Ethanol oxidation, *Material research express*, IOP Journal, Vol 6. Nov. **2019**. DOI <https://doi.org/10.1088/2053-1591/ab5320>.
17. R Namitha, Devi Radhika, G Krishnamurthy, Hydrothermally synthesized of carbon nanotubes for electrochemical hydrogen storage application, *Voprosy khimii I khimicheskoi tekhnologii (Chemistry and Chemical Technology)* **2019**, No.3 pp.30-34, ISSN 0321-4095. IF: 0.352; <http://dx.doi.org/10.32434/0321-4095-2019-124-3-30-34>.
18. G. Krishnamurthy and G. Veeresh, A facile one pot synthesis of MoO<sub>3</sub> on Reduced Graphene Oxide (RGO) and electrochemical studies for energy applications, *Materials research express*, IOP publishing, 6 (August 2019) 094013. □ DOI:10.1088/2053-1591/ab2d3d
19. G Krishnamurthy, B M. Omkaramurthy, Synthesis, crystal structure, and characterization of manganese-Metal-organic Framework with improved electrocatalytic activity for supercapacitor application, *An Indian Journal of Advances in Chemical Science*, 7(1) p12-19, ISSN2320-0928(e), December 2018; IF 0.45.
20. G Krishnamurthy and Veeresh G, Hydrothermal synthesis and characterization of MoO<sub>3</sub>/RGO nanocomposites for energy application, *International Journal of Science, Engineering and Management*, 3 (2), February 2018, p10-12, ISSN(e):2456-1304.
21. G Krishnamurthy, Omkaramurthy and Sangeetha S, Nickel and Cobalt Metal-organic frameworks as advanced electrode materials for electrochemical energy storage and ion sensor application, *International Journal of Science, Engineering and Management*, 3 (2), February 2018, p1-5, ISSN(e):2456-1304.
22. Krishnamurthy, G, Omkaramurthy B M, and Sangeetha S, Mn and Co, Metal-organic frameworks for hydrogen gas (energy) storage and heavy metal ion sensor application for clean environment, *Int.J. Sci. Engg. And Management (IJSEM)*, vol 2, Issue 12, Dec.2017, P159-162 ISSN(e):2456-1304.
23. Krishnamurthy G and Sangeetha S, Synthesis of Cobalt and Zinc MOFs at Room temperature in Water as a sole solvent and testing of the Electrochemical activity. *J. Electrochem Soc. India*, 2017, (66) 3 2017, 76-80; ISBN:0013-466X.

24. G. Krishnamurthy and M. S. Shivakumar, "decoration of copper nanoparticles on multiwalled carbon nanotubes and the study of electrocatalytic activity for Methanol oxidation" *Materials Today: proceedings*, Science direct, 4 (2017) 12012-12020. ISSN: 2214 – 7853.
25. G. Krishnamurthy and M. S. Shivakumar, Electroless deposition of nanosized nickel over graphite substrate with better coating coverage and catalytic activity for fuel cell application, *J Appl. Electrochem*, Springer, January 2017, DOI 10.1007/s10800-017-1043-8.
26. Krishnamurthy G and Omkaramurthy B M, Zinc Metal-Organic Frameworks: The Advanced/Energy materials prepared from Terephthalic acid and Methyl imidazole by Solvothermal Method, *J. Electrochem Soc. India*, Vol.65 (3-4) July- Oct 2016, (164-169). ISBN:0013-466X.
27. C. Sarika, M. S. Shivakumar, C. Shivakumara, G. Krishnamurthy, B. Narasimha Murthy and I. C. Lekshmi, A novel amperometric catechol biosensor based on  $\alpha$ -Fe<sub>2</sub>O<sub>3</sub> nanocrystals-modified carbon paste electrode, *Artificial Cells, Nanomedicine, and Biotechnology*, Taylor and Francis, 2016 <http://dx.doi.org/10.3109/21691401.2016.1167702>. IF: 5.6.
28. Kesturu Venkatarayappa Jagannath and Krishnamurthy G, 1-(3, 4-dichlorobenzenesulfonyl)-3-methyl-1H-imidazolium chloride: An efficient catalyst for the synthesis of 1, 8-dioxooctahydroxanthenes under microwave irradiation, *International Journal of <sup>SEP</sup>Chemical and Pharmaceutical Sciences*, Vol. 5 (2) June 2014. 98-104, ISSN: 0976-9390. ISSN: 0976-9390.
29. Krishnamurthy G, Namitha R, Synthesis of Carbon Nanotubes and Carbon Spheres and study of their hydrogen storage property by Electrochemical method, *Procedia Material Science*, Elsevier Journal. 5 (2014) 1056-1065, DOI: 10.1016/j.mspro.2014.07.397, ISSN: 2211-8128.
30. Krishnamurthy G, Sarika Agarwal, Room temperature synthesis and characterization of a Zn (II) based metal- organic framework with mixed ligands, 1, 4 benzenedicarboxylic acid and 1-methyl imidazole, *Procedia Material Science*, Elsevier Journal 5 (2014) 1258-1265. 10.1016/j.mspro.2014.07.437, ISSN: 2211-8128.
31. G. Krishnamurthy and Jagannath K. V. '1- (3, 4 - Dichlorobenzenesulfonyl) -3-methyl-1H-imidazolium chloride: An Efficient Catalyst for Bigineli Reaction', *Int. J. Res. Chem. Environ.* Vol. 4 Issue 4 (115-119) October 2014. ISSN: 2248-9649.
32. G Krishnamurthy and Sarika Agarwal, Optimization of Reaction Conditions and High Yield Synthesis of Carbon Nanotube Bundles by Low-Temperature Solvothermal Process and Study of their H<sub>2</sub> Storage Capacity' *Bulletin of the Korean Chemical Society*, 34(10) 2013, pp3046-3050.
33. G. Krishnamurthy, K. V. Jagannath, Efficient green synthesis of bis (3-indolyl) phenylmethanes catalyzed by 1-(Benzenesulfonyl)-3-methyl-1H-imidazolium chlorides, *Letters in Organic Chemistry*, Hindwai Publications, 10 (10) 2013, 744-751.
34. G Krishnamurthy and R Namitha synthesis of structurally novel carbon micro/ nanospheres by low temperature-hydrothermal process, *J. Chil. Chem. Soc.* 58, 3, 2013, pp1651-1654. ISSN:07179707 (p), 07179324(e).
35. G Krishnamurthy and Shivakumar MS, Preparation of an Efficient Electrocatalyst by Electroless Deposition of Copper on Graphite Substrate for Fuel Cell Applications, *Int. J Sci. Res.* 1(4), 2013, pp324-328. ISSN No.2277-7989(P), 1229-5949(e).
36. G Krishnamurthy and Sarika Agarwal, Microwave - assisted rapid synthesis of Zn-BDC metal - organic framework, *Int. J Sci. Res.* 1(4),2013, pp253-257. ISSN No.2277-7989(P), 1229-5949(e).
37. G Krishnamurthy and Namitha R, A Novel Method of Synthesis of Carbon Nanotube by Hydrothermal Process, *Int. J Sci. Res.* 1(4), 2013, pp358-362. ISSN No.2277-7989(P), 1229-5949(e).
38. G Krishnamurthy and Sona Bai M, Oxidation of total organic content in lake water samples: A case study, *Environmental Science: An Indian Journal*, 8 (6), 227-236, 2013. ISSN No. 0974-7451.

39. G Krishnamurthy and R Namitha, Synthesis and characterization of carbon micro/nanosphers by Low Temperature Hydrothermal Procedure, *Advanced Science, Engineering and Medical*, American Scientific publishers, 5(7) 2013, pp-726-730. EISSN (online):2164-6635
40. G. Krishnamurthy, K. V. Jagannath, Microwave-assisted silica-promoted solvent-free synthesis of triazoloquinazolinone and benzimidazoquinazolinones, *J. Chem. Sci., IAS-Springer*, 125(4) 2013, pp 807-811.
41. G Krishnamurthy and Sarika Agarwal, Efficient synthesis of carbon nanotubes with improved surface area by low-temperature solvothermal route from dichlorobenzene, *Chemical papers*, Springer, 1-8, 2013, DOI:10.2478-s11696-013-0397-6.
42. L.Gomathi Devi, G. Krishnamurthy, TiO<sub>2</sub> and BaTiO<sub>3</sub> Assisted Photocatalytic Degradation of Selected Chloroorganic Compounds in Aqueous Medium: Correlation of Reactivity / Orientation Effects of Substituent Groups of the Pollutant Molecule on the Degradation Rate. *J. Physical Chemistry: A*, ACS, 115 (2011) 460-469.
43. G. Krishnamurthy, M. Sona Bai, Oxidation of lindane in contaminated water under solar irradiation in the presence of photocatalyst and oxidizing agents, *Bulgarian Chemical Communications*, 42, 2 (2010) 161–166.
44. L. Gomathi Devi and G. Krishnamurthy, TiO<sub>2</sub>/BaTiO<sub>3</sub> assisted photocatalytic mineralization of diclofop-methyl on UV-light irradiation in the presence of oxidizing agents, *J. Hazard. Mater.*, Elsevier, 162 (2009) 899-905, DOI:10.1016/j.jhazmat.2008.05.116.
45. L. Gomathi Devi and G. Krishnamurthy, Photocatalytic degradation of Pendimethalin a pesticide using Nanoparticles of BaTiO<sub>3</sub>/ TiO<sub>2</sub> prepared by Gel to Crystalline conversion method: A Kinetic approach, *Journal of Environmental Science and Health Part B*, Taylor and Francis, (2008) 43, 553–561, DOI: 10.1080/03601230802234351.
46. L. Gomathi Devi and G. Krishnamurthy, Photocatalytic degradation of 4-chloroaniline in UV-light/TiO<sub>2</sub>/H<sub>2</sub>O<sub>2</sub>/(NH<sub>4</sub>)<sub>2</sub>S<sub>2</sub>O<sub>8</sub> system in aqueous medium *J. Industrial Pollution Control* 21 (1) 63-70 (2005). ISSNNo.0970-2083
47. L. Gomathi Devi and G. Krishnamurthy, Photocatalytic degradation of 3, 4-dichloronitrobenzene in aqueous suspensions of irradiated TiO<sub>2</sub> particles, *Int. J. Chem. Sci.* 3(1) 121-128 (2005). ISSNNo. 0972-768X
48. L. Gomathi Devi and G. Krishnamurthy, Photocatalytic degradation of pesticide 4-chloro-2-methylphenoxyacetic acid on irradiated TiO<sub>2</sub> particles, *O. J. Chem*, 20 (1) 63-68 (2004). ISSN No.2231-5039
49. L. Gomathi Devi and G. Krishnamurthy, UV-Visible spectral study on oxidation of pesticide 2-methyl-4-chlorophenoxyacetic acid by photocatalytic degradation over TiO<sub>2</sub> particles, *Oxidation communication*, Scientific Bulgarian Communications, 27(3) 577-581 (2004). ISSN No. 02094541.

*Papers published in Conference Proceedings:*

50. K V Jagannath, G Krishnamurthy and P Raghavaiah, Synthesis, crystal structure and thermal studies of 2-(propane-2-yl) pyrimido[1,2- $\alpha$ ] benzimidazole-4(10H)-one, International Conference on Recent Advances in Materials Science and Biophysics (RAMSB-2018), 23-25 January 2018.
51. G Krishnamurthy and Omkarmurthy, Studies on solvothermal synthesis, characterization and electrochemical activity of Zn-MOF, [Zn(tpa)(py)(DMF)], International Conference on Recent Advances in Materials Science and Biophysics (RAMSB-2018), 23-25 January 2018.
52. Krishnamurthy G and Sangeetha S, Electrochemical studies of Copper Metal-organic framework synthesized using the mixed ligands, ethylenediamine-tetra-acetic-acid and O-phenylene- diamine at room temperature. International Conference on Recent Advances in Materials Science and Biophysics (RAMSB-2018), 23-25 January 2018.
53. Krishnamurthy G and Sangeetha S, Electrochemical response of Copper Metal-Organic Frameworks for Heavy Metal Sensor application, ICONEST-2017 by J. Electrochem. Soc. India Vol: (66) 3 2017 70-75, ISBN:0013-466X/ Proceedings 10-12 August, 2017.

54. Krishnamurthy G and Omkaramurthy, Electrochemical charge-discharge studies of Zinc Metal-Organic frameworks prepared by a room temperature stirring method for energy (Hydrogen storage) Application. ICONEST-2017 by J. Electrochem. Soc. India, ISBN:0013-466X./ Proceedings, 10-12 August, 2017.

#### **Papers presented in conferences/seminars**

1. Veerasha G, Krishnamurthy, G, Hydrothermal synthesis of  $\text{MoO}_3$  on reduced graphene oxide for super capacitor applications. 19<sup>th</sup> Annual/5<sup>th</sup> International Science Fiction Conference 2020 (ISFC-2020), Dec 7-9<sup>th</sup>, Online Conference, organized by Bangalore University, Bangalore jointly with & Indian Association for Science Fiction Studies (IASFS), Bangalore.
2. Krishnamurthy, G, Manjunath, K, Synthesis of Cerium-DPTU Metal organic frameworks and studies on Super capacitor applications, 19<sup>th</sup> Annual/5<sup>th</sup> International Science Fiction Conference 2020 (ISFC-2020), Dec 7-9<sup>th</sup>, Online Conference, organized by Bangalore University, Bangalore jointly with & Indian Association for Science Fiction Studies (IASFS), Bangalore.
3. Omkaramurthy B M, Krishnamurthy G, Electrocatalytic activity and chemical sensor applications of Mn (II) and Zn(II) MOFs: crystal structure and Luminescent properties in 19<sup>th</sup> Annual/5<sup>th</sup> International Science Fiction Conference 2020 (ISFC-2020), Dec 7-9<sup>th</sup> 9<sup>th</sup>, Online Conference, organized by Bangalore University, Bangalore jointly with & Indian Association for Science Fiction Studies (IASFS), Bangalore.
4. Sangeetha S, Krishnamurthy, G, Battery behaviour of Ni-bhb Complex, 19<sup>th</sup> Annual/5<sup>th</sup> International Science Fiction Conference 2020 (ISFC-2020), Dec 7-9<sup>th</sup>, Online Conference, organized by Bangalore University, Bangalore jointly with & Indian Association for Science Fiction Studies (IASFS), Bangalore.
5. Sangeetha S, Krishnamurthy, G, Cobalt Complex for Energy Application, International Conference on "Accelerating innovations in material science" (AIMS-2020), organized by Department of Chemistry, BMS Institute of Technology & Management, Bangalore., 4-7 August 2020.
6. Veerasha G, Shivakumar, M. S, Mylarappa, Krishnamurthy, G, Synthesis of Cobalt doped cerium oxide on reduced graphene oxide for capacitance storage and sensing of L-cystine, in the Conference on electrochemistry in Industry, health and environment organized by Indian society for electroanalytical chemistry, at BARC, Mumbai during January 21<sup>st</sup> -25<sup>th</sup> 2020.
7. Omkaramurthy B M, Krishnamurthy G Sabine Foro, A significantly responsive and high specific capacitance Cobalt and Nickel Metal-organic frameworks as more promising electrode materials for Supercapacitor applications in the Conference on electrochemistry in Industry, health and environment organized by Indian society for electroanalytical chemistry, at BARC, Mumbai during January 21<sup>st</sup> -25<sup>th</sup> 2020.
8. Krishnamurthy, G, Manjunath, K, Synthesis of Novel Cerium-DPTU Metal-organic frameworks and studies on Supercapacitor applications in the Conference on electrochemistry in Industry, health and environment organized by Indian society for electroanalytical chemistry, at BARC, Mumbai during January 21<sup>st</sup> -25<sup>th</sup> 2020.
9. Krishnamurthy, G and Manjunath, K, Synthesis of novel Cerium-DPTU Metal organic framework and studies on super capacitor applications, in the 43<sup>rd</sup> Indian Social Science Congress (ISSC) organized by Bengaluru Central University (BCU) in association with ISSA at Central College Campus, Bengaluru during 17<sup>th</sup> -21<sup>st</sup> January 2020.
10. Veerasha G and G Krishnamurthy G, Hydrothermal synthesis of  $\text{MoO}_3$  on reduced graphene oxide for Fuel cell applications" in the 43<sup>rd</sup> Indian Social Science Congress (ISSC) organized by Bengaluru Central University (BCU) in association with ISSA at Central College Campus, Bengaluru during 17<sup>th</sup> -21<sup>st</sup> January 2020.
11. Omkaramurthy B M and G Krishnamurthy, A new iron-based metal-organic framework(Fe-MOF) with enhancing electrocatalytic activity and super capacitor application, in the 43<sup>rd</sup> Indian Social Science Congress (ISSC) organized by Bengaluru Central University (BCU) in association with ISSA at Central College Campus, Bengaluru during 17<sup>th</sup> -21<sup>st</sup> January 2020.
12. Sangeetha S, Krishnamurthy, G and Sabine Foro," Anti-bacterial activity of Co and Zn- Crown ether metal-organic frameworks' in the 43<sup>rd</sup> Indian Social Science Congress (ISSC) organized by Bengaluru Central University (BCU) in association with ISSA at Central College Campus, Bengaluru during 17<sup>th</sup> -21<sup>st</sup> January 2020.
13. G Krishnamurthy and Manjunath K, "Synthesis and electrochemical and biological activity of Cu and Mn Metal-organic frameworks", 11<sup>th</sup> Annual Conference, February 1<sup>st</sup> and 2<sup>nd</sup> in association with NMKRV college, Bangalore-11, Karnataka Science and Technology Academy-2019.

14. G Krishnamurthy and Sangeetha S, Electrochemical sensing and photocatalytic degradation of amaranth dye by Cobalt-beta hydroxy benzoate complex, International Conference on Nanoscience and Nanotechnology (ICONN 2019), SRM IST, Chennai.,28-30, January 2019.
15. Omkaramurthy BM and G Krishnamurthy, Synthesis and characterization of Mesoporous Crystalline Copper Metal-Organic Frameworks for Electrochemical Energy Storage application, International Conference on Nanoscience and Nanotechnology (ICONN 2019), SRM IST, Chennai.,28-30, January 2019.
16. Shivakumar and G Krishnamurthy, Deposition of Cobalt nanoparticles on reduced Graphene oxide and the Electrocatalytic activity for Methanol and Ethanol oxidation, International Conference on Nanoscience and Nanotechnology (ICONN 2019), SRM IST, Chennai.,28-30, January 2019.
17. Veerasha G and G Krishnamurthy, A facile one pot synthesis of MoO<sub>3</sub> on Reduced Graphene Oxide(RGO)and electrochemical studies for energy applications, International Conference on Nanoscience and Nanotechnology (ICONN 2019), SRM IST, Chennai.,28-30, January 2019.
18. G Krishnamurthy and Veerasha G, 'Synthesis and characterisation of molybdenum oxide/ reduced graphene oxide nanocomposite for energy application'; International conference on Innovations and Challenges in Science and Technology (ICICST-2018), 24<sup>th</sup>-26<sup>th</sup> may 2018 ant DON BOSCO Institute of technology, Bangalore.
19. G Krishnamurthy and Omkarmoorthy, Cobalt metal-organic frame workswith better electrocatalytic property for supercapacitor applications, "Current Advances in Chemical Sciences" Tumkur University, Tumkuru, 16th March 2018.
20. G Krishnamurthy and Veeresh G, Hydrothermal synthesis and characterization of MoO<sub>3</sub>/RGO nanocomposites for energy application, 2<sup>nd</sup> International conference on emerging trends in Engineering, Science and Technologies(ICCTEST-18), Balaji Institute of technology, Warangal, 16<sup>th</sup> -17<sup>th</sup> February, 2018.
21. G Krishnamurthy, Omkarmoorthy and Sangeetha S, Nickel and Cobalt Metal-organic frameworks as advanced electrode materials for electrochemical energy storage and ion sensor application, 2<sup>nd</sup> International conference on emerging trends in Engineering, Science and Technologies(ICCTEST-18), Balaji Institute of technology, Warangal, 16<sup>th</sup> -17<sup>th</sup> February, 2018.
22. K V Jagannath, G Krishnamurthy and P Raghavaiah, Synthesis, crystal structure and thermal studies of 2-(propane-2-yl) pyrimido[1,2- $\alpha$ ] benzimidazole-4(10H)-one, International Conference on Recent Advances in Materials Science and Biophysics (RAMSB-2018), 23-25 January 2018.
23. G Krishnamurthy and Omkarmoorthy, Synthesis, Characterization and Electrochemical studies of Zn-MOF, [Zn(tpa)(py)(DMF)] by Solvothermal Route, International Conference on Recent Advances in Materials Science and Biophysics (RAMSB-2018), 23-25 January 2018.
24. Krishnamurthy G and Sangeetha S Electrochemical studies of Copper Metal-organic framework synthesized using the mixed ligands, ethylene diammine-tetra-acetic-acid and O-phenylene- diamineat room temperature. International Conference on Recent Advances in Materials Science and Biophysics (RAMSB-2018), 23-25 January 2018.
25. Krishnamurthy G and Sangeetha S, Electrochemical response of Copper Metal-Organic Frameworks for Heavy Metal Sensor application, International Conference on Electrochemical Science and Technology(ICONEST-2017) , Electrochemical Society of India, IISc, Bangalore, August 10-12, 2017.
26. G Krishnamurthy and B M Omkaramurthy, Electrochemical charge-discharge studies of Zinc Metal - Organic Frameworks Prepared by a Low temperature synthesis route for Energy (hydrogen gas storage, Application, International Conference on Electrochemical Science and Technology(ICONEST-2017), Electrochemical Society of India, IISc, Bangalore, August 10-12, 2017.
27. G Krishnamurthy and B M Omkaramurthy, Electrochemical behaviour of Cobalt Metal-Organic Frameworks (Co-MOFs) Synthesized by solvothermal Route: Luminescent and Hydrogen gas (energy) storage property, National conference on science and technology: Reaching the unreached recent advances in physical, chemical, mathematical, and biological sciences for energy, health and environment (NCSTRU-2017), Mangalore Univeristy, Mangalore, 8<sup>th</sup> and 9<sup>th</sup> September-2017.
28. Krishnamurthy G and Sangeetha S, Electrochemical response of Copper and Zinc Metal-Organic Frameworks for Heavy Metal Sensor application, National conference on science and technology: Reaching the unreached recent advances in physical, chemical, mathematical, and biological sciences for energy, health and environment- september-2017 (NCSTRU-2017), Mangalore Univeristy, Mangalore, 8<sup>th</sup> and 9<sup>th</sup> September-2017.
29. Krishnamurthy G and Shivakumar M S, Decoration of Nickel Nanoparticles on Multiwalled Carbon Nanotubes and Testing the Electrocatalytic Activity on Methanol/Ethanol Oxidation for Fuel cell

- Application, 14th International Conference on Nanomaterials and Nanotechnology, **Madrid, Spain**, 30-31 March 2017.
30. Krishnamurthy G and Shivakumar M S, The Study of Decoration of Cobalt Nanoparticles on Reduced Graphene oxide and the Electro Catalytic Activity, International Conference on Advances in Science and Engineering (ICASE 2017), East West Institute of Technology, Bangalore, India, 19th January 2017.
  31. G Krishnamurthy and Omkarmoorthy, BM, Presented Paper on “Synthesis and characterization of Zinc metal-organic frameworks: Advanced/Energy material prepared from Terephthalic acid and Methyl imidazole by solvothermal method”, in the National Symposium on Electrochemical Science and Technology (NSEST-2016), conducted by Electrochemical society of India, during July 15-16, 2016, at IISc, Bangalore.
  32. G Krishnamurthy and Sangeetha S, Presented Paper on “Synthesis of Cobalt/Zinc metal-organic frameworks at room temperature in Water as sole solvent”, in National Symposium on Electrochemical Science and Technology (NSEST-2016), conducted by Electrochemical society of India, during July 15-16, 2016, at IISc, Bangalore.
  33. G Krishnamurthy and Shivakumar M S, Presented the paper entitled “Decoration Of Copper Nano Particles on Multiwalled Carbon Nanotubes and the Study of Electrocatalytic Activity for Methanol Oxidation” in an International Conference on Nanotechnology – 2016, Viveswaraya Technological University, Mudelahalli, Chickaballapura, Karnataka, during April 21 -23<sup>rd</sup> 2016.
  34. G Krishnamurthy and Shivakumar M S Presented the paper entitled “Electroless Deposited Copper on Multiwalled Carbon Nanotubes: An Efficient Electrocatalyst for Methanol/ Ethanol Oxidation for Fuel Cell Application”, 103<sup>rd</sup> Indian Science congress, University of Mysore, Mysuru , Karnataka, India during January 3-7<sup>th</sup> 2016.
  35. G Krishnamurthy and Shivakumar M S Presented the paper entitled “Study of Electroless deposition of Silver particles on Graphite and Electrochemical activity” Advanced Functional Materials (AFM - 2015), Dayananda Sagar College of Engineering, VTU, Bengaluru, Karnataka, India. December 4 and 5<sup>th</sup> 2015.
  36. Krishnamurthy G, Sarika Agarwal, Room temperature synthesis and characterization of a Zn (II) based metal- organic framework with mixed ligands, 1, 4 benzenedicarboxylic acid and 1-methyl imidazole, International conference on Advances in Manufacturing and Materials Engineering (AMME-2014)” held on 27<sup>th</sup>- 29<sup>th</sup> March 2014, NITK Surathkal, Karnataka.
  37. Krishnamurthy G, Namitha R, Synthesis of Carbon Nanotubes and Carbon Spheres and study of their hydrogen storage property by Electrochemical method, International conference on Advances in Manufacturing and Materials Engineering (AMME-2014)” held on 27<sup>th</sup>- 29<sup>th</sup> March 2014, NITK Surathkal, Karnataka.
  38. Krishnamurthy G, Sarika Agarwal, Namitha R and Shivakumar M S, Solvothermal/Hydrothermal synthesis and characterization of carbon nanotubes and studying their hydrogen storage properties by electrochemical method in Energy, Materials and Nanotechnology Meeting, 27 February - 2 March 2014, **Las Vegas, Nevada, USA**.
  39. G Krishnamurthy and Jagannath K V, presented paper on Efficient green synthesis of 1,8-dioxo-octahydroxanthene using 1-(benzenesulfonyl)-3-methyl-1-H-imidazolium chlorides in 101 Indian Science Congress held at University of Jammu, Jammu from February 3 -7, 2014.
  40. G Krishnamurthy and Jagannath K V, participated in 32<sup>nd</sup> Annual National conference of Indian Council of Chemists held at Department of Studies in Chemistry, Karnatak University, Dharwad on 28<sup>th</sup> -30<sup>th</sup> November 2013.
  41. G Krishnamurthy and Shivakumar M S, Preparation of an efficient electrocatalyst by electroless deposition of copper on graphite substrate for fuel cell application, International conference on recent advances in material science (RAMS-2012)” to be held on november 6-8th, 2012.
  42. G Krishnamurthy and Sarika Agarwal, Microwave - assisted rapid synthesis of Zn-bdc, metal-organic framework, “International conference on recent advances in material science (RAMS-2012)” to be held on november 6-8th, 2012.
  43. G Krishnamurthy and Namitha R, A novel method of synthesis of well-arranged carbon nanotube bundles by hydrothermal process, International conference on recent advances in material science (RAMS-2012)” to be held on november 6-8th, 2012.
  44. G Krishnamurthy and Sarika Agarwal, Synthesis and characterization of Carbon nanotubes by Low-Temperature Solvothermal route from Dichlorobenzene, ACCMS-Theme Meeting on 2D Nanostructures: Graphene and Beyond” held on July 29-30,2012 at IISc Bangalore.
  45. G Krishnamurthy and Sarika Agarwal, “Synthesis and characterization of some novel hydrogen storage materials: Carbon nanotubes and metal organic frameworks” a UGC and DST sponsored National



- conference on “Chemistry: Challenges and opportunities on 16-18 February, 2012”, held at Dept. of chemistry, St, Joseph’s College, Bangalore.
46. G Krishnamurthy and K V Jagannath, Microwave assisted synthesis of pyrimidobenzimidazolone and their conversion into 10-Phenyl sulfonyl-2-alkyl-4, 10 Dihydrobenzo [4, 5] imidazo [1, 2-a] pyrimidin-4-ones, CRSI-2013, Banarus Hindu University, Varanasi.
  47. G Krishnamurthy and K V Jagannath, Synthesis of a novel sulfonylimidazolium salt (an ionic liquid) and its efficient catalytic application in preparation of bis (indolyl) methanes under microwave irradiations, ETSC-2012, Solapur University, Maharashtra.
  48. G Krishnamurthy and Sarika Agarwal, Synthesis and characterization of metal-organic framework by room temperature stirring process, International Conference on Synthetic and structural Chemistry (ICSSC-2011)’on 8th to 10th December 2011 held at Department of studies in Chemistry, Mangalore University, Mangalagangothri.
  49. G Krishnamurthy and R Namitha ‘Solvothermal Synthesis and Characterization of Carbon Nanotubes’ International Conference on Synthetic and structural Chemistry (ICSSC-2011)’, on 8th to 10th December 2011 held at Department of studies in Chemistry, Mangalore University, Mangalagangothri.
  50. G. Krishnamurthy, K. V. Jagannath, A greener simple and efficient microwave assisted solid support<sup>[1]</sup> synthesis of 9-aryl -6, 6-dimethyl-5, 6, 7, 9-tetrahydro-4H-1, 2, 4-triazolo [5, 1-b] quinazolin-8-one derivatives, International Conference on Synthetic and structural Chemistry (ICSSC-2011)’, on 8th to 10th December 2011 held at Department of studies in Chemistry, Mangalore University, Mangalagangothri.
  51. G Krishnamurthy and R Namitha, ‘Low temperature hydrothermal synthesis and characterization of shape oriented nano to micro sized carbon spheres’ in Two day national conference on recent trend in chemistry (RTC-2011) ‘organized by PES college of Science, Commerce and arts, Mandya , Karnataka, India, on 16<sup>th</sup> and 17<sup>th</sup> September 2011.
  52. G Krishnamurthy and R Namitha, Low temperature hydrothermal synthesis carbon nano spheres, National conference on chemistry of materials (NCCM-2011) held at Tumkur University, Tumkur-572103, India, on 28<sup>th</sup> September 2011.
  53. G. Krishnamurthy, K. V. Jagannath, Facile one pot synthesis of 4-arylbenzimidazole [1,2, a] -5-triazine-2-ones under microwave irradiation using Ionic liquid, National conference on Recent trend in chemical and biological sciences, organized by the Dept. of Chemistry, Kuvempu University, Shimoga, Karnataka on 30-31 March 2010.
  54. G. Krishnamurthy and Sarika Agarwal Low Temperature Solvothermal Synthesis and Characterization of Carbon Nanotubes, International Conference on current trends in Chemistry and Biochemistry, Dept. of Chemistry, Bangalore University, Bangalore-560 001 on 17th and 18<sup>th</sup>, Dec-2009.
  55. L. Gomathi Devi, G. Krishnamurthy, and G. GC-MS, UV-Vis and IR spectroscopic study of the destruction of Diclofop-methyl: a pesticide water contaminant by using TiO<sub>2</sub> and BaTiO<sub>3</sub> photocatalysts, Seminar on ‘Advances in Material Sciences (AMS-2006), Gulbarga University, Gulbarga, 9-10<sup>th</sup> January 2006.
  56. L. Gomathi Devi, G. Krishnamurthy, TiO<sub>2</sub> mediated photocatalytic degradation of 4-chlorophenol in aqueous medium under UV- light in presence of oxidizing agents, National seminar on current trends in chemistry, Annamalai University, Annamalai Nagar, Tamil Nadu, on 24-25<sup>th</sup> March 2004.
  57. L. Gomathi Devi, G. Krishnamurthy, Photocatalytic degradation of pesticide 4-chloro-o-toloxycetic acid on irradiated TiO<sub>2</sub> particles, 90<sup>th</sup> Indian Science Congress held at Bangalore University Bangalore on 3-7<sup>th</sup> January 2003.
  58. L. Gomathi Devi, G. Krishnamurthy, Photocatalytic degradation of pesticide Metribuzin on irradiated photocatalyst in aqueous medium, 2<sup>nd</sup> National Seminar on Environmental Awareness Education & Management for sustainable rural development (NSERD-III), S.V. University, Tirupati, 26-28<sup>th</sup> August 2002.
  59. L. Gomathi Devi, G. Krishnamurthy, Photocatalytic oxidation/ degradation of environmentally hazardous pesticide Dimethyl 4,4<sup>1</sup> -(O -phenylene) bis (3- thioallophanate) on titanium dioxide suspended in water medium, 20<sup>th</sup> ICC Conference, University of Mysore, 22-24<sup>th</sup> December 2001.
  60. L. Gomathi Devi and G. Krishnamurthy, Photocatalytic degradation of 2,4,5-Trichlorophenol under UV-light irradiation in the presence of H<sub>2</sub>O<sub>2</sub> in aqueous medium, The Third National Symposium on students’ project on Correlation Analysis in chemistry, organized by The International group for correlation analysis in chemistry, Mysore, 21-22<sup>nd</sup> September 1998.
  61. L. Gomathi Devi, G. Krishnamurthy, G. M. Krishnaiah Semiconductor assisted photocatalytic degradation of 2-methyl-4-chlorophenoxyacetic acid in aqueous media in the presence of oxidizing

agents, Seventeenth Conference, Indian Council of Chemists, Madras University, Chennai, on 26-28<sup>th</sup> November 1998.

### **Workshops/Conferences participated**

1. 19<sup>th</sup> Annual/5<sup>th</sup> International Science Fiction Conference 2020 (ISFC-2020), Dec 7-9<sup>th</sup>, Online Conference, organized by Bangalore University, Bangalore jointly with & Indian Association for Science Fiction Studies (IASFS), Bangalore.
2. International Conference on electrochemistry in Industry, health and environment organized by Indian society for electroanalytical chemistry, at BARC, Mumbai during January 21<sup>st</sup> -25<sup>th</sup> 2020.
3. Workshop on Raman Spectroscopy and its applications, Dept. of Physics, Bangalore University Bangalore, 25<sup>th</sup> October 2019.
4. Participated in "One-day National Workshop on e-content, MOOCs and ARPIT" jointly organized by Guru Angad Dev Teaching Learning Centr of MHRD, SGTB, Khalsa College, University of Delhi and Bangalore University held at Bangaluru University on 25<sup>th</sup> Sept 2019.
5. G Krishnamurthy and Manjunath K, "Synthesis and electrochemical and biological activity of Cu and Mn Metal-organic frameworks", 11<sup>th</sup> Annual Conference, February 1<sup>st</sup> and 2<sup>nd</sup> in association with NMKRV college, Bangalore-11, Karnataka Science and Technology Academy-2019.
6. Participated in "Two-day Extension Lecture Programme in Chemistry", Dept. of Chemistry, Bangalore University in association with CFCE, IISc, Bengaluru during 15<sup>th</sup>- 16<sup>th</sup> Nov. 2018.
7. G Krishnamurthy, Participated in the Workshop on the topic Hands on training on New Materials for Energy Application at East west institute of technology, Magadi Road, Bangalore on 15 and 16<sup>th</sup> October 2018.
8. G Krishnamurthy, "Current Advances in Chemical Sciences" Tumkur University, Tumkuru, 16<sup>th</sup> March 2018.
9. G Krishnamurthy, participated in '8<sup>th</sup> Bangalore India Nano' conference organized by ITBT&ST, Govt. of Karnataka, from March 3-5 2016, at Lalith Ashoka Hotel, Bangalore.
10. G. Krishnamurthy, Industrial Corrosion and Corrosion Control Technology-2012, organized by The Electrochemical Society of India, Indian Institute of Science Campus, Bangalore, on 24-25 January 2012.
11. G. Krishnamurthy, Access to Information for Teaching & Research & R3 Access User Meet at Bangalore University Library, J B Campus, Bangalore, Dated 29<sup>th</sup> Jan 2011.
12. G. Krishnamurthy, Accelerating Research Discovery and Innovation organized in collaboration with Thomson Reuters held at Bangalore University, Bangalore on 26<sup>th</sup> April 2010.
13. Science Academies' Education Programme On 'Current Trends in Organic Synthesis' Organized by DOS in Chemistry, Central College Campus, Bangalore University Bangalore, on 9<sup>th</sup>&10<sup>th</sup> April 2010,
14. G. Krishnamurthy, Lecture workshop on contemporary issues in Chemistry at VVPURA College of Science, Bangalore Dated 26<sup>th</sup> 27<sup>th</sup> March 2010.
15. G. Krishnamurthy, Science Academies' Education Programme on Frontier Lecturer in 'Bio-Organic chemistry' on 28<sup>th</sup>& 29<sup>th</sup> May 2009 Organized by DOS in Chemistry, Central College Campus, Bangalore University, Bangalore.
16. G. Krishnamurthy, Frontier Lectures series in Material Science and Nanotechnology, Organized by Department of Chemistry, Bangalore University, Bangalore in association with, IAS, INSA and INAS on 30<sup>th</sup> and 31<sup>st</sup> October 2008.
17. G. Krishnamurthy, National Conference in Chemistry-2006, Dept. Of Chemistry, Central College campus, Bangalore University, Bangalore- 560 006, from 27<sup>th</sup> -29<sup>th</sup> Sept. 2006.
18. G. Krishnamurthy, (Lecturer from New Horizon College of Engineering, Bangalore), Introductory Programme on Biotechnology, jointly organized by VTU, Belgaum and The Institution of Engineers (India), in association with Biosys Technologies Pvt., Ltd., from 19<sup>th</sup> August to 21<sup>st</sup> 2002.
19. G. Krishnamurthy, (Lecturer from New Horizon College of Engineering, Bangalore), Workshop on Curriculum of I/II semester BE in chemistry subject, Conducted by SDMET, Dharwad, on Behalf of VTU, Belgaum, on 16<sup>th</sup> June 2002.

### **Invited Talks Deliverd**

1. Webinar talk on 'New Materials for Energy Applications "in a Faculty Development Programme on "Recent Advances in Science and Technology 2020" organized by Don Bosco Institute of Technology, Bangalore on 21<sup>st</sup> August, 2020.
2. Webinar talk on ""The Advanced Energy Sources for the Future Generations", at SDC, Kolar, India, on 8<sup>th</sup> June, 2020.

3. Webinar Talk on “COVID-19 and its Impact on Environment and Society: Bio and Physicochemical facts” at APS College of Science, Commerce and Arts, Bangalore, N R Colony, on 18<sup>th</sup> May 2020.
4. “Sustainable Energy and Environment” Bangalore university, UGC – Human Resource Development Center Refresher Course on “Recent Trends in Information Technology” (March 2, 2020 to March 14, 2020), 10<sup>th</sup> March, 10 am to 1.15pm, JBC, BUB.
5. “Understanding Electrochemistry through Electrochemical energy sources” at BMS college for Women, Basavanagudi, Bangalore-, on 14<sup>th</sup> September.
6. Decoration of Nickel Nanoparticles on Multiwalled Carbon Nanotubes and Testing the Electrocatalytic Activity on Methanol/Ethanol Oxidation for Fuel cell Application, 14th International Confererence on Nanomaterials and Nanotechnology, **Madrid, Spain**, 30-31 March 2017.
7. Electrochemical energy convertirs/storers, at Siddaganga Collge of Arts, Science and Commerce, Tumakuru, Karnataka, on 19/03/2016.
8. Solvothermal/Hydrothermal synthesis and characterization of carbon nanotubes sand studying their hydrogen storage properties by electrochemical method in Energy, Materials and Nanotechnology Meeting, 27 February - 2 March 2014, **Las Vegas, Nevada, USA**.

### Guiding Students:

#### No. of Ph.D. Degree students

**Guided:** **07**

**About to Complete:** **01**

**New Admissions:** **06**

**No. of students Guided for M.Phil. Degree:** **02**

**No. of students Guided for M.Sc. Degree Projects:** **16**

### The Research Projects:

Sl. No.	Title	Grant Period	Cost (Lacs)	Funding Agency	Date of Initiation	Status
1	Solvothermal synthesis of Carbon Nanotubes and studying their hydriding and dehydriding properties	Feb 2011 to Feb 2014	5.06	UGC, New Delhi	01/02/2011	Completed
2	Green synthesis of some Biologically important heterocyclic compounds	2011-2012	1.0	Bangalore University	29/03/2011	Completed

### Conferences organized/held major responsibility:

1. Worked as a **Convener** for 19<sup>th</sup> Annual/5<sup>th</sup> International Science Fiction Conference 2020 (ISFC-2020), Dec 7-9<sup>th</sup> 2020, the Online Conference, organized by Bangalore University, Bangalore jointly with & Indian Association for Science Fiction Studies (IASFS), Bangalore.
2. Worked as a **Local Convener**, Chemical sciences research Committee, 43<sup>rd</sup> Indian Social Science Congress, organized by Bengaluru centra University in association with Indian Social Science Academy, UP, during 17<sup>th</sup> to 21<sup>st</sup> January 2020, at BCU campus, Bengaluru-560001.

### Sessions chaired:

1. Chaired in Chemistry papers presentations in ‘Physical and Computational Sciences’ parallel sessions of 19<sup>th</sup> Annual/5<sup>th</sup> International Science Fiction Conference 2020 (ISFC-2020), Dec 7-9<sup>th</sup>2020, Online Conference, organized by Bangalore University, Bangalore jointly with & Indian Association for Science Fiction Studies (IASFS), Bangalore.
2. Chaired the Oral presentation sessions in the *Inorganic and Physical Chemistry* section in the International Conference on “Accelerating innovations in material science” (AIMS-2020), organized by Department of Chemistry, BMS Institute of Technology & Management, Bangalore.
3. Chaired the Sessions in *Chemical Sciences Research Committee*, on 18<sup>th</sup> January 2020, in 43<sup>rd</sup> Indian Social Science Congress, organized by Bengaluru Central University in association with Indian Social Science Academy, UP, during 17<sup>th</sup> to 21<sup>st</sup> January 2020, at BCU campus, Bengaluru-560001.

**Book Chapter:** Dr KV Jagannath and Dr G Krishnamurthy, New Innovations in Chemistry and Biochemistry, Vol.3, B. P International, 66-75, 2021.

**As a Reviewer:** Reviewed the manuscripts for the J Ceramics International- Elsevier; J Applied Polymer science, Wiley; J Nanoparticle research, Springer; Industrial and Engineering chemistry research, American Chem. Soci; Chemical Engineering Journal, Elsevier; J Chemical Crystallography, Springer; J Applied Electrochemistry, Springer, Journal Porous materials, Springer; Chemical Papers, Springer; J Inorganic and Organometallic Polymers and Materials, Springer; etc.

### **Responsibilities held**

1. BOS Member, DOS in Chemistry, BUB.
2. *BOS Chairman* for PG Chemistry Examinations, BNU, Tamaka, Kolar, 2020-21
3. BOS member, PG Chemistry, Gulbarga University, 2020-21
4. BOS member, PG Chemistry, Tumkur University, 2020-21.
5. BOS member, Forensic science, BUB-2021-22
6. *BOE Chairman* for PG Chemistry Examinations, BNU, Tamaka, Kolar- 2020-21.
7. *BOE Chairman* for UG Science and Society subject, Chemistry Examinations, BU, 2020-21.
8. BOE member, PG board, Tumkur University, 2020-21.
9. BOE member, PG Board, DOS in Chemistry, BUB, 2020-21.
10. BOE Member, PG Forensic Science Examinations, BUB. 2020-21.
11. BOE Member, PG Chemisty, NMKRV Autonomus College, BUB. 2020-21.
12. BOE Member, PG Chemistry several times in BUB.
13. Member, Selection Committee for Staff for KVs, Bangalore, in 2015 and 2018.
14. Member, BOE, PG Chemistry, for various other Universities, Like Mangalore University, Tumkur University, NMKRV College- PG Courses, St. Philomena's college, Mysore, etc.
15. BOE, Member, Department of Forensic Science, etc.
16. Visited as Practical Examiner for PG Chemistry for all most all Major Universities in Karnataka.
17. Chief Custodian for PG Science Course, Centralized Valuation Unit for June/July 2014 Examinations.
18. Worked as a Tresurer, Chemical society, Department of Chemistry, Bangalore University, Bangalore, 2011-13.
19. Deputy Custodian for PG Science Centralized Valuation Unit for Dec-2009/Jan 2010 Examinations.
20. HOD, Department of Chemistry, GFGC for Women, Chintamani, Chikkaballapur Dist. Karnataka, 2006-07.
21. HOD of Chemistry (Lecturer - Senior Lecturer), New Horizon College of Engineering, Bangalore, during 2001 – 2006(5 years)

### **Membership of professional bodies:**

1. Life Member for Environment and Social Development Association, Delhi, Since Aug 2021 (Membership No. L-495)
2. Life Member for Indian Association of Science Fiction Studies, Bangalore, Since 2020 (Membership/ Receipt No. 165)
3. Life Member of Electrochemical Society of India, IISc, Bangalore, since 20016 (Membership/ Rect. No. LM-272).
4. Life Member of Indian Science Congress Association, Since 2013 (Membership No. 123188).
5. Life Member of Association of Central College Chemistry Alumni, Bangalore, since 20017 (Membership No. 164).
6. Member American Chemical Society, 2013-16 (Membership No. 30743766).
7. Member for Indian Council of Chemists, 2014-16.