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CAREER SUMMARY:

PG Teaching - 20 years; UG Teaching – 34 years; Research experience - 31 years

ADMINISTRATIVE EXPERIENCE:

- ❖ Coordinator: M. Sc., course in Chemistry- September 2011-2013.
- ❖ Head of the Department – February 2016- February 2018
- ❖ E Attestation officer, Post matric scholarship for SC, ST and minority class students
Centre e-governance, Govt. of Karnataka – 2019-2023

KEY RESEARCH AREAS:

- ❖ Organic Chemistry- ecofriendly synthesis of heterocyclic compounds, isolation of bioactive compounds from medicinal plants.
- ❖ Pharmaceutical chemistry- Anti-cancer; anti-inflammatory; anti-microbial; enzyme inhibition activity.
- ❖ X-ray Crystallography.

SCIENTIFIC IMPACT:

- ❖ Publications - Over 218
- ❖ Total Citations: Over 2970
- ❖ h-Index - 31
- ❖ i10-index 81
- ❖ 149- Highest citations for an individual research article published in *Eu. J. Med. Chem.*
- ❖ Invited lectures: Over 35

BOOKS AUTHORED:

- ❖ Shaukath Ara khanum (2016) A laboratory manual for B.Sc.I-VI semester students. : Yuvaraja's College Co-operative Society. Mysore.
- ❖ Proceedings of the National Seminar on Statistical Methods and Data Analysis on September 26th & 27th, 2014. ISBN 817877-093-8
- ❖ Shaukath Ara khanum (2013) Text book of Organic chemistry
- ❖ Shaukath Ara khanum and Aiyasha Firdouse (2011) Principles of Biochemistry.

BOOKS EDITED:

- ❖ Introduction to biochemistry (2021-22) I B Sc. Students, Karnataka State Open University, Mysore.
- ❖ Basics of Bio-inorganic and Biophysical Chemistry for biology graduate (2021-22) Karnataka State Open University, Mysore.

AWARDS:

- ❖ 5th National award for excellence in education 2021 on 5th September 2021 by AMP's
- ❖ AMP National award for excellence in education 2020 on 5th September 2020
- ❖ Award for Research Publication-Vision Group on Science and Technology
Received from Bharat Ratna Prof.C.N.R.Rao, on 17th March, 2018, at JNCASR, Jakkur, Bengaluru

NATIONAL PATENT –Application No. 201741011886 published date 14/4/2017

LIST OF PUBLICATIONS AS ON 2022:

1. Jahn-Teller distortion in SP-like [Cu(bipy)(triamine)].2BF₄ complexes with novel N-H...F/C-H...F synthon: XRD/HSA-interactions, physicochemical, electrochemical, DFT, docking and COX/LOX inhibition. A AlAli, M Al-Noaimi, A AlObaid, HA Khamees, A Zarrouk, K Kumara, Ismail Warad, Shaukath Ara Khanum **J. of Molecular Liquids** **387** (2023) **122689**.
2. Design, synthesis, characterization, docking studies of novel 4-phenyl acrylamide-1,3-thiazole derivatives as anti-inflammatory and anti-ulcer agents. Pallavi H M, Fares Hezam Al-Ostoot, HamseKameshwar Vivek , Hussein Khamees , Shaukath Ara Khanum **J. Molecular Structure** **1292** (2023) **136126**.
3. Morphology effect on photocatalytic activity of self-doped ZnO nanoflowers. Salma Kouser · Abdo Hezam · K. Namratha, · K. Byrappa, Shaukath Ara Khanum. **Iranian J Chem. Soc** **20** (2023) **2561-2568**.
4. Synthesis and docking studies of pyrazole-benzamide-benzothiazole conjugates as xanthine oxidase inhibitor candidates Nagesh Khadri M J, Ramith Ramu, Mohammed Al-Ghorbani, Shaukath Ara Khanum, **J. Molecular Structure** **1290** (2023) **135937**.
5. Molecular docking, Synthesis and Antimicrobial Evaluation of Metal Complexes with Schiff Base. Zabiulla, Salma Kouser, Mahima Joythi, A Bushra Begum, MS Asha, Fares Hezam Al-Ostoot, DP Lakshmeesha, Ramith Ramu, Shaukath Ara Khanum. **Results Chem.** **5** (2023) **100650**.

6. Hyperspectral Signatures and Volumetric Study of Iron Ore from Kemmanagundi, Bababudan Hill Ranges of Karnataka State, India Abrar Ahmed, Shaukath Ara Khanum, M. C. Manjunatha, H. T. Basavarajappa **Journal of Applied Chemical Science International**, 14 (2023) 9-16.
7. Design, Synthesis, Characterization, and Analysis of Antimicrobial Property of Novel Benzophenone Fused Azetidinone Derivatives through In Vitro and In Silico Approach Lakshmi Ranganatha Venkataravanappa, Mahima Jyothi, Hussien Ahmed Khamees, katerina Silina, Victor Stupin, Raghu Ram Achar, Mohammed Al-Ghorbani, **Shaukath Ara Khanum**, **Current issues in Molecular biology**, 45 (2023) 92-109.
8. Design, synthesis, characterization and analysis of anti-inflammatory properties of novel *N*-(benzo[d]thiazol-2-yl)-2-[phenyl(2-(piperidin-1-yl) ethylamino) benzamides and *N*-(benzo[d]thiazol-2-yl)-2-[phenyl (2-morpholino) ethylamino] benzamides derivatives through in vitro and in silico approach Mahima Jyothi, V. Lakshmi Ranganatha, Hussien Ahmed Khamees, M. J. Nagesh Khadri, Shaukath Ara Khanum. **Iranian J Chem Soc (2023)**
9. $[\text{Br}(\text{N}(\text{C}_6\text{H}_5)_2)_2\text{Cu}(\mu\text{Br})_2\text{Cu}(\text{N}(\text{C}_6\text{H}_5)_2)_2\text{Br}]$ dimer; $[\text{H}_2\text{O} \cdot \text{Br} \cdot \text{S}(9)]$ synthons, spectral, DFT/XRD/HSA, thermal, docking and novel LOX/COX enzyme inhibition Anas Al-Ali, Ismail Warad and Shaukath Ara Khanum, **J. Molecular Structure** 1275 (2023) 134626.
10. Rational Design and Engineering of Efficient Metal Organic Framework for Visible Light-driven Photocatalytic carbon-di-oxide Reduction. Salma Kouser, Abdo Hezam, Shaukath Ara Khanum. **Inorganica Chimica Acta**. 546 (2023) 121287.
11. Structural investigations and theoretical insights of a polymethoxy chalcone derivative: Synthesis, crystal structure, 3D energy frameworks and SARS CoV-2 docking studies. Karthik Kumara, Mahima Jyothi, Salma Kouser, AH Uday Kumar, Ismail Warad, Shaukath Ara Khanum, Neratur Krishnappagowda Lokanath. **J. Molecular Structure** 1272 (2023) 134226.
12. Synthesis, analgesic, anti-inflammatory, ulcerogenic evaluation, and docking study of (benzoylphenoxy)-*N*-(5-[2-methylphenyl-6-chlorobenzoxazole]) acetamides as COX/5-LOX inhibitor. M.J.Nagesh Khadri, Hussien Ahmed Khamees, Salma Kouser, Zabiulla, Shaukath Ara Khanum **J. Molecular Structure** 1272 (2023) 134240.
13. In-silico docking, synthesis, structure analysis, DFT calculations, energy frameworks, and pharmacological intervention of [1,2,4]-thiadiazoles analogous as XO inhibitor and on ...multiple molecular inflammatory targets COX and LOX. Zabiulla, Fares Hezam Al-Ostoot, Hussien Ahmed Khamees, Nagendra Prasad, Farhan Zameer, Shaukath Ara Khanum. **J. Molecular Structure** 1270 (2022) 133963.
14. Synthesis, structure elucidation, Hirshfeld surface analysis, energy frameworks and DFT studies of novel ethyl 2-(5-methyl-2-oxopyridin-*N*-yl)acetate (OPA). K.M.Chandini, Fares Hezam Al-Ostoot, T.N.Lohith, Murad Q.A.Al-Gunaid Basheer M. Al-Maswari M.A. Sridhar and **Shaukath Ara Khanum**. **J. Molecular Structure** 1270 (2022) 133928.
15. Aza-hydrozone analogue BT-IF, induces anti-inflammatory activity in inflammatory in-vitro and in-vivo models. Banumathi, Zabiulla, Riaz Mohmood, Shaukath Ara Khanum,

- Suchetha Kumari N, Parisara Nagaraj and B. T. Prabhakar. **Indian J Applied and Pure Bio.** **37** (2022) 748-757.
16. Synthesis, Crystal Structure, Hirshfeld Surface Analysis, Energy Frameworks and Computational Studies of Schiff Base Derivative. Chandini K. M, Nagesh Khadri M.J. Amoghavarsha Nagachandra, **Shaukath Ara Khanum** and Sridhar M. A. **Heliyon** **8** (2022) 10047.
 17. Synthesis, Characterization, Hirshfeld Surface Analysis, Crystal Structure and Molecular Modeling Studies of 1-(4-(Methoxy(phenyl)methyl)-2-methylphenoxy)butan-2-one Derivative as a Novel α -Glucosidase Inhibitor. Chandra Shivanna, Shashank M. Patil, Mallikarjunaswamy C. Ramith Ramu, Ramith Ramu, Akhileshwari P, Latha Rani, Sridhar M. A. **Shaukath Ara Khanum**, Lakshmi V. Ranganatha, Ekaterina Silina. Victor Stupin and Raghu Ram Achar. **Crystals** **12** (2022) 960.
 18. Microwave-Assisted Synthesis, Characterization, Docking Studies and Molecular Dynamic of Some Novel Phenyl Thiazole Analogs as Xanthine Oxidase Inhibitor. Mahima Jyothi, Hussien Ahmed Khamees, Shashank M. Patil, Ramith Ramu and **Shaukath Ara Khanum**. **Iranian J Chem Soc** **19** (2022) 3919–3933.
 19. Bio-efficacy of four medicinal plant extracts and a synthetic compound: A comparative study Zabiulla, Nanjundaswamy N, Kusumadevi S, Gulnaz AR, Fares Hezam Al-Ostoot, Salma Kouser, Madhu CS, **Shaukath Ara Khanum**. **Int. J. Adv. Multidisc. Res. stud.** **2** (2022) 358-364.
 20. Discovery of novel benzophenone integrated derivatives as anti-Alzheimer's agents targeting presenilin-1 and presenilin-2 inhibition: A computational approach. Reshma Mary Martiz, Shashank M. Patil, Ramith Ramu, Jayanthi M. K, Ashwini P, Lakshmi V. Ranganatha, **Shaukath Ara Khanum**, Ekaterina Silina. Victor Stupin, Raghu Ram Achar. **PLOS ONE** **17** (2022) 0265022.
 21. Synthesis, analgesic, anti-inflammatory, COX/5-LOX inhibition, ulcerogenic evaluation, and docking study of benzimidazole bearing indole and benzophenone analogs. M. J. Nagesh Khadri, T. Prashanth, Hussien Ahmed Khamees and **Shaukath Ara Khanum**. **J. Molecular Structure** **1259** (2022) 132741.
 22. A Review on Zeolite Imidazole Frameworks: Synthesis, Properties and Applications. Salma Kousar, Abdo Hezam, Kullaiah M. J. Nagesh Khadri and **Shaukath Ara Khanum**. **J. Porous Materials** **29** (2022) 663–681.
 23. Synthesis, elucidation, DFT computations, Hirshfeld surface analysis and docking study of 6-chloro-3-[(4-fluoro-phenoxy)methyl][1,2,4]triazolo[4,3-b]pyridazine against fungi pathogen. Hamdi Hamid Sallam, Yasser Hussien Issa Mohammed, Fares Hezam Al-Ostoot, P. Akhileshwari, M. A. Sridhar and **Shaukath Ara Khanum** **Mol. Cryst and Liq Cryst** **738** (2022) 76-90.
 24. Synthesis, Structure Analysis, DFT Calculations and Energy Frameworks of new Coumarin Appended Oxadiazoles, to Regress Ascites Malignancy by Targeting VEGF Mediated Angiogenesis. Mahima Jyothi, Banumathi, Zabiulla Ankith Sherapura, Hussien Ahmed Khamees Prabhakar B.T and **Shaukath Ara Khanum** **J. Mol. Structure** **1252** (2022) 132173.
 25. Antiproliferative pharmacophore azo-hydrazone analogue BT-1F exerts death signalling pathway targeting STAT3 in solid tumour. Banumathi, Ankith Sherapura, Vikas H. Malojirao, Zabiulla, B. S. Sharath, Prabhu Thirusangu, Riaz Mahmood, N. Suchetha

- Kumari, Shrinath M. Baliga, **Shaukath Ara Khanum**, B. T. Prabhakar. **Pharmacol Rep** **74** (2022) 353-365.
26. Recent investigation on heterocycles with one nitrogen [Piperidine, Pyridine and Quinoline], two nitrogen [1,3,4-Thiadiazole and Pyrazole] and three nitrogen [1,2,4-Triazole]- A review Zabiulla, Fares Hezam Al-Ostoot, Asha M. S, Mohammed Al-Ghorbani and **Shaukath Ara Khanum**. **Iranian J Chem Soc** **19** (2022) 23-54.
 27. Synthesis, characterization, and antimicrobial analysis of 5-phenyl-4-((2-(piperazin-1-yl)ethyl)thio)-1,2,3-oxadiazole analogs through in vitro and in silico approach V. Lakshmi Ranganatha , Ramith Ramu , Rashmi V, Reshma Mary Martiz, **Shaukath Ara Khanum** **J. Molecular Structure** **1252** (2022) 132168.
 28. Anti-neoplastic phramacophore benzophenone-1 coumarin (BP-1C) targets JAK2 to induce apoptosis in lung cancer Ankith Sherapura, Vikas H. Malojirao, Prabhu Thirusangu, B. S. Sharath, Shivananda Kandagalla,V. Vigneshwaran, Jurica Novak, Lakshmi Ranganatha, Y. L. Ramachandra, Shrinath M. Baliga, Shaukath Ara Khanum, B. T. Prabhakar. **Apoptosis** **27** (2022) 49-69.
 29. Competent synthesis of biaryl analogs via asymmetric Suzuki-Miyaura cross-coupling for the development of anti-inflammatory and analgesic agents H.D Gurupadaswamy, Lakshmi Ranganatha V, Ramith Ramu, Shashank M Patil, Shaukath Ara Khanum **Iranian J Chem Soc** **19** (2022) 2421-2436.
 30. Synthesis, characterization, DFT. Docking studies and molecular dynamics of some 3-phenyl-5-Furan Isoxazole derivatives as anti-inflammatory and anti-ulcer agents. Pallavi H M, Fares Hezam Al-Ostoot , H.KVivek, Shaukath Ara Khanum **J. Molecular Structure** **1250** (2022) 131812.
 31. Experimental and computational studies on the synthesis and structural characterization of 2-(4-chlorophenoxy)-N-[5-(4-methylphenyl)-1,3-thiazol-2-yl]acetamide. Hamdi Hamid Sallama, Yasser Hussien Issa Mohammed, Fares Hezam Al-Ostoot, P. Akhileshwari, M.A. Sridhar, Shaukath Ara Khanum. **J. Molecular Structure** **1249** (2021) 131588.
 32. Synthesis, structural analysis, Hirshfeld surface analysis, DFT calculations, *in vitro* and docking study on antioxidant activity of 6-chloro-3-[(4-methylphenoxy) methyl] [1,2,4] triazolo[4,3-b]pyridazine. Hamid Sallam, Yasser Hussien Eissa Mohammed, Geetha D. V., Fares Hezam Al-Ostoot, Sridhar M. A. and Shaukath Ara Khanum. **Mol. Cryst and Liq Cryst** (2021) 1907053.
 33. Design, Docking, synthesis, and characterization of novel N'(2-phenoxyacetyl) nicotinohydrazide and N'(2-phenoxyacetyl)isonicotinohydrazide derivatives as anti-inflammatory and analgesic agents. Pallavi H M, Fares Hezam Al-Ostoot , H.KVivek, Shaukath Ara Khanum **J. Molecular Structure** **1247** (2021) 131404.
 34. Synthesis, crystal structure elucidation, Hirshfeld surface analysis, 3D energy frameworks and DFT studies of 2-(4-fluorophenoxy) acetic acid Akhileshwari Prabhuswamy , Yasser Hussein Eissa Mohammed , Fares Hezam Al-Ostoot , Geetha Doddanahalli Venkatesh , Sridhar Mandayam Anandalwar, Shaukath Ara Khanum and Lokanath Neratur Krishnappagowda. **Eu. J. Chem.** **12** (2021) 304-313.
 35. Synthesis, Crystal structure characterization, DFT calculations, Hirshfeld surface analysis and 3D Energy frameworks of triazole pyridazine derivatives: Theoretical and experimental studies. . **J. Molecular Structure** **1246** (2021) 131242.

36. Tumor Angiogenesis: Current Challenges and Therapeutic Opportunities (Review) . Fares Hezam Al-Ostoot Salma Salah, Hussien Ahmed Khamees and Shaukath Ara Khanum. **Cancer Treatment and Research Communications** 28 (2021) 100422.
37. Modulation of DNA damage response by targeting ATM kinase using newly synthesized di-phenoxy acetamide (DPA) analogs to induce anti-neoplasia. Fares Hezam Al-Ostoot, Ankith Sherapura, and Shaukath Ara Khanum, **Pharmacol Rep** 73 (2021) 1344-1360.
38. Sunlight-assisted synthesis of cerium (IV) oxide nanostructure with enhanced photo catalytic activity. Salma Kousar, Abde Hezam, Kullaiah Byrappa and Shaukath Ara Khanum. **Optic** 245 (2021) 167236.
39. Design, synthesis, docking, Hirshfeld surface analysis and DFT calculations of 2-methylxanthen-9-one with the FtsZ protein from Staphylococcus aureus V Lakshmi Ranganatha, Mallikarjunaswamy C, Jagadeep Chandra S, Ramith Ramu, Prithvi S Shirahatti, Naveen Kumar, Sowmya B P, Hussien Ahmed Khamees, Mahendra Madegowda, Shaukath Ara Khanum **Bioinformation**, 17 (2021) 393-403.
40. Targeting HIF-1 α by newly synthesized Indole phenoxyacetamide (IPA) analogs to induce anti-angiogenesis-mediated solid tumor suppressionm Fares Hezam Al-Ostoot, Ankith Sherapura, Vigneshwaran V, Giridhara Basappa, Vivek H K and Shaukath Ara Khanum, **Pharmacol Rep** 73 (2021) 1328-1343.
41. Synthesis, structure analysis, DFT calculations, Hirshfeld surface studies, and energy frameworks of 6-chloro-3-[(4-chloro-3-methylphenoxy)methyl][1,2,4]triazolo[4,3-b]pyridazine. Hamdi HamidSallam, Yasser Hussien EissaMohammed, Fares Hezam Al-Ostoot, M.A.Sridhar and Shaukath Ara Khanum. **J. Molecular Structure** 1237 (2021) 130282.
42. Synthesis, structural characterization, and DFT studies of anti-cancer drug N-(2-amino phenyl)-2-(4-bromophenoxy)acetamide. S.N. Chandana, Fares Hezam Al-Ostoot, Yasser Hussein Eissa Mohammed, Tareq N. Al-Ramadneh, P. Akhileshwari, Shaukath Ara Khanum, M.A. Sridhar, B.N. Lakshminarayana. **Heliyon** 7 (2021) 06464.
43. Synthesis, Charecterisation, Docking Study and Antimicrobial activity of 2-(4-benzoylphenoxy)-1-[2-(1-methyl-1H-indol-3-yl)methyl]-1H-benzo[d]imidazol-1-yl] ethanone derivatives. T. Prashanth, Lakshmi Ranganatha V, Ramith Ramu, Subhankar P. Mandale, Mallikarjunaswamy C, Shaukath Ara Khanum. **Iranian J Chem Soc** 18 (2021) 2741–2756.
44. Synthesis, crystal structure, DFT calculations, Hirshfeld surface analysis, energy frameworks, molecular dynamics and docking studies of novel isoxazolequinoxaline derivative (IZQ) as anti-cancer drug. **J. Molecular Structure** 1232 (2021) 130004.
45. Recent investigations into synthesis and pharmacological activities of phenoxy acetamide and its derivatives (Chalcone, Indole and Quinoline) as possible therapeutic candidates. **Iranian J Chem Soc** 18 (2021) 1839-1875.
46. Molecular docking and synthesis of caffeic acid analogous and its anti-inflammatory, analgesic and ulcerogenic studies. Fares Hezam Al-Ostoot, Zabiulla, S. Grisha, Yasser Hussein Eissa Mohammed, H.KVivek, Shaukath Ara Khanum. **Bioorg. Med. Chem. Lett.** 33 (2021) 127743.
47. Metal nanoparticles as emerging catalysts: A mini review Rashmi Veeranna, Pramila Shivamurthy, Mallikarjunaswamy Chandrashekaraiyah, Nithin Kundachira Subramanni,

- Sangamesha Madanahalli Ankanathappa, Shaukath Ara Khanum, Lakshmi Ranganatha Venkataravanappa. *Int. J. Nano Dimens Spring.* **12** (2021) 90-97.
48. Synthesis of Metal Complexes with Schiff Base for Degradation of Janus Green B Dye Shaukath Ara Khanum Zabiulla , Fares Hezam Al-Ostoot, Pallavi H. M, Nagesh Khadri M. J, Srikanth K. **IRJET** **7** (2020) 219-226.
 49. Synthesis, docking and biological evaluation of thiadiazole and oxadiazole derivatives as antimicrobial and antioxidant agents. Zabiulla, MJ Nagesh Khadri, A Bushra Begum, MK Sunil, Shaukath Ara Khanum. **Results in Chemistry**, **2** (2020) 100045.
 50. Design-based synthesis, molecular docking analysis of an anti-inflammatory drug, and geometrical optimization and interaction energy studies of an indole acetamide derivative Fares Hezam Al-Ostoot, DV Geetha, Yasser Hussein Eissa Mohammed, P Akhileshwari, MA Sridhar, Shaukath Ara Khanum. **J. Molecular Structure** **1202** (2020) 127244
 51. Effect of o-difluoro and p-methyl substituents on the structure, optical properties and anti-inflammatory activity of phenoxy thiazole acetamide derivatives: Theoretical and experimental studies, Hussien Ahmed Khamees, Yasser Hussein Eissa Mohammed, S Ananda, Fares Hezam Al-Ostoot, Y Sangappa, Saad Alghamdi, Shaukath Ara Khanum, Mahendra Madegowda **J. Molecular Structure.** **1199** (2020) 127024.
 52. Synthesis and crystallographic structure analysis of 4,4'-oxydianiline G. Sharma , S. Anthal , D. V. Geetha , F. H. Al-Ostoot, M. Q. A. AlGunaid , S. A. Khanum , M. A. Sridhar and R. Kant. **Rasayan J Chem** **12** (2019) 2311-2317.
 53. Anti-oxidant and Anti-microbial Activities of Silver Nanoparticles of Essential Oil Extracts from Leaves of *Zanthoxylum ovalifolium* B. S. Theerthavathy, Shaukath Arakhanum, B. S. Ravi Kumar and S. and Ravi Kiran. **Eu. J. Med. Plants** **29** (2019) 101583475.
 54. Design, synthesis and molecular docking of benzophenone conjugated with oxadiazole sulphur bridge pyrazole pharmacophores as anti inflammatory and analgesic agents. Zabiulla, AR Gulnaz, Yasser Hussein Eissa Mohammed, Shaukath Ara Khanum. **Bioorg. Chem** **92** (2019) 103220.
 55. Synthesis, molecular docking, and apoptogenic efficacy of novel N-heterocycle analogs to target B-cell lymphoma 2/X-linked inhibitors of apoptosis proteins to regress melanoma. Zabiulla, Vikas H. Malojirao, Yasser Hussein Eissa Mohammed, Prabhu Thirusangu, B. T. Prabhakar, Shaukath Ara Khanum. **Med. Chem. Res.** **28** (2019) 1132–1160.
 56. Synthesis, Elucidation, Hirshfeld surface analysis, and DFT calculations of 4-chloro-N-[2-(2-1H-indol-3-yl-acetylamino)-phenyl]-benzamide D.V. Geetha , Fares Hezam Al-Ostoot , Yasser Hussein Eissa Mohammed, M.A. Sridhar, Shaukath Ara Khanum, N.K. Lokanath, **J. Molecular Structure.** **1178** (2019) 384-393.
 57. Synthesis, *in silico* study and *in vitro* anti-microbial evaluation of some new N-benzoyl-N'-[2-(4-chloro-phenoxy)-acetyl]-hydrazides analogs. Fares Hezam Al-Ostoot, Yasser Hussein Eissa Mohammed, Zabiulla, Anup Nagaralli Kempaiah, Shaukath Ara Khanum **J. Applied Pharmaceutical Science** **9** (2019) 042-049.
 58. Synthesis, spectroscopic and X-ray crystallographic analysis of *N*-(2-(2-(4-chlorophenoxy)acetamido)phenyl)-1*H*-indole-2-carboxamide Fares Hezam Al-Ostoot, Sumati Anthal, Geetha Doddenahally Venkatesh, Yasser Hussein Eissa Mohammed, Mandayam Anandalwar Sridhar, Shaukath Ara Khanum and Rajni Kant. **Eu. J. Chem.** **10** (2019) 234-238.

59. Identification and Quantification of Germacrene D from the Extracts of *Zanthoxylum ovalifolium* Leaves by Agno3-TLC Densitometric Method B.S. Theerthavathy, Shaukath Ara Khanum and s. Ravi kiran, **Asian Journal of Chemistry**. **31** (2019) 1649-1652.
60. Therapeutic potential and in vitro anthelmintic activity of ridge gourd fruit. Fares Hezam Al-Ostoot, Yasser Hussein Eissa Mohammed, Zabiulla, Sunil Kumara D S and Shaukath A. Khanum **Asian J Pharm Clin Res**, 2019, **12**, 309-312.
61. Molecular Structure, DFT, Vibrational Spectra with Fluorescence Effect, Hirshfeld Surface, Docking Simulation and Antioxidant Activity of Thiazole Derivative. Hussien A. Khamees, Yasser H. E. Mohammed, Ananda Swamynayaka, Fares H. Al-Ostoot, Yusuf Sert, Saad Alghamdi, Shaukath A. Khanum, and Mahendra Madegowda. **Chemistry Select** **4** (2019) 4544 -4558
62. Synthesis of coumarin analogs appended with quinoline and thiazole moiety and their apoptogenic role against murine ascitic carcinoma. T. Prashanth, B.R. Vijay Avin, Prabhu Thirusangu, V. Lakshmi Ranganatha, B.T. Prabhakar, J.N. Narendra Sharath Chandra, Shaukath Ara Khanum **Biomedicine & Pharmacotherapy** **112** (2019) 108707.
63. Synthesis, crystal structure and 3D energy frameworks of ethyl 2-[5-nitro-2-oxopyridine-1 (2H)-yl] acetate: Hirshfeld surface analysis and DFT calculations. Karthik Kumara, Fares Hezam Al-Ostoot, Yasser Hussein Eissa Mohammed, Shaukath Ara Khanum, Neratur Krishnappagowda Lokanath **Chemical Data Collections** **20** (2019) 100195
64. 3D energy framework of a benzophenone acidic dimer S. Madan Kumar, Avinash K.Kudva, B.C. Manjunath, P. Naveen, T. Prashanth, Shaukath Ara Khanum, N.K. Lokanath , P. Nagendra **Chemical Data Collections** **19** (2019) 100168
65. Crystal Structure Study, Hirshfeld Surface Analysis and in vitro Antibacterial Activity of p-tolyl 4-fluorobenzoate N. Latha Rani, V. Lakshmi Ranganatha, M. A.Sridhar and Shaukath Ara Khanum **J. Applicable Chem.** **8** (2019) 293-301.
66. Synthesis, Elucidation, Hirshfeld surface analysis, and DFT calculations of 4-chloro-N-[2-(2-1H-indol-3-yl-acetylamino)-phenyl]-benzamide. DV Geetha, Fares Hezam Al-Ostoot, Yasser Hussein Eissa Mohammed, MA Sridhar, Shaukath Ara Khanum, NK Lokanath **J. Molecular Structure** **11678** (2019) 384-393.
67. V. Lakshmi Ranganatha, K. S. Nithin, Shaukath Ara Khanum, G. Nagaraju, and C. Mallikarjunaswamy. Zinc oxide nanoparticles: A significant review on synthetic strategies, characterization and applications. **AIP Conference Proceedings** **2162**, 020089 (2019).
68. Synthesis, crystal structure and Hirshfeld surfaces of 1-(3, 4-dimethoxyphenyl)-3-(3-hydroxyphenyl) prop-2-en-1-one. SM Kumar, BC Manjunath, FH Al-Ostoot, M Jyothi, M Al-Ghorbani, Shaukath Ara Khanum, Avinash K Kudva, NK Lokanath, K Byrappa **Chemical Data Collections** **15** (2019) 153-160.
69. Synthesis and amelioration of inflammatory paw edema by novel benzophenone appended oxadiazole derivatives by exhibiting cyclooxygenase-2 antagonist activity. Naveen Puttaswamy, Vikas H. Malojiao, Yasser Hussein Eissa Mohammed, Ankith Sherapura, Prabhakar B.T. and Shaukath Ara Khanum. **Biomedicine & Pharmacotherapy** **103** (2018) 1446–1455.
70. Antitumor Hybrid BT009K Modulates Inflammation Induced Neovascularization in Both Tumorigenic and Non-Tumorigenic Model System Shamanth Neralagundi H G, Zabiulla, Shaukath Ara Khanum and Prabhakar BT **Journal of Applied Pharmaceutical Science**. **8** (2018)143-149.

71. Statistical analysis of antimicrobial data of 2-[2-(aroyl)aroyloxy]methyl-1,3,4 oxadiazoles analogues using ANOVA Fares Hezam Al-Ostoot, Vidya, R, Zabiulla, Yasser Hussein Eissa Mohammed, Mahima Jyothi, Pallavi. H.M, and Shaukath Ara Khanum. **Asian J Research Chem.** 11 (2018) 293-297.
72. Analysis of antimicrobial data of 2-aryloxy methyl oxazoline analogues using ANOVA. Zabiulla, Vidya, R, Fares Hezam Al-Ostoot, Mahima Jyothi, Yasser Husein Eissa Mohammed, Shaukath Ara Khanum. **Asian J Research Chem.** 11 (2018) 307-311.
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PAPERS PRESENTED/ ATTENDED CONFERENCES/SYMPOSIUM/WORKSHOPS:

1. **International Webinar on “Two Dimensional Nanostructures for energy conversion and storage applications.”** Organized by Centre for research and innovation school of natural sciences, B.G. Nagara, Mandya District, Adhichunchanagiri University on 24th December 2021.
2. **International Webinar on "Trends in Chemical Science: Challenges and Opportunities"** Organized by Department of Chemistry, St.Philomena's College (Autonomous), Mysore from 04th to 06th November 2020.
3. **Webinar on spearheading the Healthcare administration essentials to develop your best talent.** Organized by Department of Health system Management Studies, JSSAHER, Mysuru on 23rd July 2020.
4. **E-Workshop on structure based and ligand based drug design.** Organized by Department of Pharmaceutical chemistry, JSS college of Pharmacy, Mysuru on 13th and 14th July 2020.
5. **Seven days International online seminar on “Natural Products for Health Management”** Organized by Department of Botany, Periyar University Constituent College of Arts and Science, Harur, Dharmapuri, Tamil Nadu on 10th to 16th June 2020.
6. **Lecture series on Mendeleev's groups and periods-Nature to nurture.** Organized by Maharani's lakshmi Ammanni College for women Bangaluru on 17th October 2019. (Synthesis and biological applications of palladium platinum zinc and mercury transition metal complexes –(**won best poster award**)).
7. **One day Symposium on Nutrition and Health for Women Empowerment** Organized by PG Department Biochemistry Maharani's Science College for women and Students Science Council Association of Scientific Young Minds on 25th September 2019.
8. **International conference on biotechnological advances in medicinal plants and natural**

- products** Organized by Department of Life Sciences, School of Sciences, Garden City University, Bangalore on 19th and 20th of september, 2019. (paper presented on Therapeutic Potential And In-Vitro Anthelmintic Vitro Anthelmintic Activity Activity Of Ridge Gourd Fruit)
9. National Conference on Recent Innovations in Medicinal and Material Chemistry. Organized by Department of Studies in Chemistry Manasaganotri, University of Mysore, Mysuru on 8th and 9th March 2019.
 10. **SCI – FEST’19 TEQIP-111 INITIATIVE** on occasion of National Science Day. Organized by Department of Chemistry JSS science and technology university Mysuru on 28th Feb and 1st March 2019.
 11. **Medical conference on mind, body medicine. Creating a miracle: celebrating life.** Organized by Brahma kumaris and medical win of Rajyoga education and research foundation at Karnataka state open University convocation Hall, Mysuru on 24th Feb 2019.
 12. **World summit on resource management and sustainable development.** Organized by University of Mysore, UG and PG department of studies in Economics Maharani’s Arts college or women, Mysore, James cook university, Singapore and international council for development research, Mysore on 22nd and 23rd Feb 2019.
 13. **Twenty ninth Mid Year Meeting of the Indian Academy of Sciences** held in Infosys training centre Mysuru from 29th to 30th June 2018.
 14. **7th International Multidisciplinary Conference on Global Innovative Research Dimensions.** Jointly organized by International Council of Development Research, Seshadripuram Academy of Business Studies, KS Town, Bangalore, Oriental Research Institute, University of Mysore, State Planning Board, Govt. of Karnataka and Naresuan University, Thailand on 22nd and 23rd June 2018 at SABS Auditorium KS Town, Bangalore.
 15. **One day seminar and Exhibition on Nuclear Energy Applications and Safety aspects.** Organised by Department of Studies in Chemistry, Pooja Bhagavat Memorial Mahajana Education Centre and Indian Nuclear Society, Mysuru Chapter on 23rd March 2018.
 16. **National seminar on Bio Prospecting for Sustainable Develeopment-2018.** Organized by Institute of excellence, in association with University with potential for excellence atVijnana Bhavan, Manasaganotri, Mysore on 23rd and 24th February 2018.
 17. **Half day seminar on Exposure of polymers in end use.** Organized by Central Institute of Plastics Engineering and Technology Mysuru on 23rd February 2018.
 18. **One day seminar on Chromatography: basics and advances.** Organised by JSS College, of Pharmacy Mysuru on 13th October 2017.
 19. **State level symposium on Recent development, science, engineering and technology RDSET-2017** Organised by ATME College, of Engineering, Mysusru, on 10th October 2017.
 20. **Silver Jubilee Celebrations. Conference on Green Chemistry-Future chemistry.** Organised by Sarada ilas ollege ofPharmacy, Mysuru on 9th August 2017.

21. **One day state level seminar on Innovations and Challenges in Nuclear, Chemical and Biochemical Sciences** Organised by Department of Chemistry and Biochemistry, St. Philomena's College, Mysuru on 24th July 2017.
22. **Science Academy lecture workshop** Organised by Department of Molecular Biology Yuvaraja's College, Mysuru on 27th and 28th April 2017.
23. **UGC sponsored one day national conference on Research Advancement in Chemical Biology**, Organised by JSS College of Arts, Commerce and Science on 23rd March 2017.
24. **One day National level conference on Emerging Trends in Nano Chemistry** (NCETNC-17) organized by Sri Dharmasthala Manjunatheshwara Education Society Mysore on 2nd February 2017.
25. **Two-day seminar and Exhibition on Energy Mix: Need for the Nation** organized by the Department Chemistry, The National Institute of Engineering Mysuru in association with Indian Nuclear Society on 11th and 12th January 2017.
26. **One day seminar on Analytical Solutions for Today's Science** organized by Agilent Technologies on 15th Dec 2016.
27. **Two days workshop on Recent trends in research methodology and safety measures for handling chemicals in the laboratory.** organized by Post graduate department of chemistry, Sarada vilas college, Mysuru on 9th and 10th Dec 2016.
28. **Two day National conference on Nuclear energy in India- A boon.** organized by St. Philomena's College Mysore and Indian Nuclear Society, Mysore on 29th and 30th March 2016.
29. **103rd Indian science congress** organized by University of Mysore and ISCA on 3rd to 7th Jan 2016.
30. **One week short term course on Media and Human rights** organized by the UGC Human Resource development centre Manasagangotri, Mysore, from 30 September to 6th October 2015.
31. **Seminar on Benefits of Nuclear and Material sciences in day to day life (BNMS-2015)** organized by Indian Nuclear Society, Mysore and University of Mysore on 21th and 22nd August 2015.
32. **One day National seminar on Chemistry and Chemical Biology** organized by the University of Mysore, Mysuru on 26th May 2015.
33. **Two day National conference on Current Trends in Chemical Biology** organized by the Department Chemistry, JSS College of Arts, Commerce and Science, Ooty Road, Mysore on 2nd and 3rd March 2015 (oral presentation).
34. **One day seminar on Recent Innovations in Bio-inorganic and Medicinal chemistry** organized by the Department Chemistry, The National Institute of Engineering on 28th January 2015.
35. **National seminar on changing profile of malnutrition in India** organized by the Department of Studies in Food Science and Nutrition (UGC-DRS II), Manasagangotri, University of Mysore, Mysuru on 9th January 2015.
36. **National conference on pure and applied chemistry (NACOPAC-2014)** organized by the

- Department of Studies in Chemistry, Manasagangotri, University of Mysore, Mysuru on 29th to 31st December 2014.
37. *International conference at 7th Bangalore India Nano 2014* organized by nano Hub of India, MIM active Sci-Tech communications and VGST Bangalore at Lalit Ashok, Bangalore on 5th and 6th December 2014.
 38. *Two days workshop on overview and applications of scientific equipment-IOE* organized by Institution of excellence, Vijnana Bhavan, Manasagangotri, Mysore on 13th and 14th October 2014.
 39. *National seminar on supramolecules and nanomaterials* organized by St. Philomena's College Mysore on 22nd and 23rd August 2014. (Benzophenone tagged coumarin analogues: Design, synthesis and anticancer properties)
 40. *Regional conference on science and technology for education and health care* organized by the Karnataka science and technology academy and JSS College of Arts, Commerce and Science, Ooty Road, Mysore on 21st and 22nd February 2014.
 41. *Research talk on breast cancer -Its cause, detection and therapy* organized by Sri Jayachamarajendra College of Engineering Mysore on 17th February 2014.
 42. *International conference on Bangalore Bio India* organized by the Department of Information Technology, Biotechnology and Science & Technology, Government of Karnataka and the Vision Group on Biotechnology - Bangalore at Lalit Ashok, Bangalore on 10th to 12th February 2014.
 43. *International Symposium on Chemical Biology-Drug Discovery* organized by University of Mysore on 9th and 10th January 2014.
 44. *Technical workshop on exploring SciFinder (chemical abstracts) for scientific research in academia* organized by Mysore University library, at the Department of Studies in chemistry, University of Mysore, Mysore on 4th January 2014.
 45. *Workshop on Literature Review* organized by Mysore University library, University of Mysore, Mysore on 19th December 2013
 46. *International conference at 6th Bangalore India Nano 2013* organized by nano Hub of India, MIM active Sci-Tech communications and VGST Bangalore at Lalit Ashok, Bangalore on 4th to 6th December 2013
 47. *National conference on "Recent trends in chemical biology: An overview" (RTCB-2013)* organized by Department of Chemistry and Biotechnology, Teresian College, Mysore in association with Karnataka State Open University, Mysore on 25th and 26th Oct 2013 (Synthesis and anti cancer activity of novel benzophenone-benzimidazole analogues: *in vitro* and *in vivo* investigations. (Won Second Prize)
 48. *NAAC sponsored National conference on "continuous enhancement of quality in higher educational institutions"* organized by Park's College, Tirupur on 30th Sep and 1st Oct 2013 (Autonomy and quality assurance in higher educational institutions)
 49. *One day seminar on "Publish or perish"* organized by Mysore Librarians and information scientists association on 20th July 2013.
 50. *National conference on "Frontiers and challenges in Biological Organometallic compounds"* organized by Department of Chemistry, M. S Ramiah Institute of Technology, Bangalore on 20th and 21st June 2013 (synthesis and biological activity of cobalt complexes)
 51. *One day State level workshop on Basic techniques in instrumental methods* organized by the Postgraduate Departments of chemistry, Biochemistry and Biotechnology, JSS college of Arts, Commerce and Science. Ooty road, Mysore on 27th March 2013.

52. ***National worksoop and training on Biodiversity Status, Conservation and Ethno medicinal usage of rare, endangered and threatned plant species.*** Jointly organized by Department of Botany, AVK college for women Hassan and Department of AYUSH Govt of Karnataka on 11th & 12th March 2013.
53. ***“International conference on natural products in the management of cancer, diabetes and viral infections (phytocongress-2013)”*** organized by Centre for advanced research in Indian system of medicine, SASTRA University, Thanjavur, Tamil nadu. On 7th and 8th March 2913. Iodine substituted phenols as an antiviral agents.
54. ***“ One day State level workshop ”*** organized by Maharani’s Science college for women Mysore and KSTA, Bangalore on 26th Feb 2013.
55. ***“National seminar on role of autonomy and quality assurance in higher education: issues, achievements and challenges”***organized by Gobi arts and Science College, Gobichettipalayam, Erode district, Tamilnadu. On 1st and 2nd Feb 2013 *Why do colleges seek autonomy?*
56. ***“5th Annual KSTA conference 2012 science and technology for societal transformation”.*** Organized by KSTA Bangalore & Dyananda Sagar institutions. On 19th and 20th December 2012. Management of Severe Acute Malnutrition in Children Under Five Years.
57. ***Two day international lecture series on Bio prospecting for sustainable development*** organized by institution of excellence, University of Mysore, Mysore on 29th and 30th Nov 2012
58. ***“National conference on Green and Sustainable Chemistry”.*** Organized by Department of Chemistry, Tumkur University, Tumkur. On 25th Feb 2012. *Microwave-Assisted Synthesis of 2-Azetidinonyl 5-(2-benzoyl-phenoxyethyl) 1,3,4-Oxadiazoles.*
59. ***“International conference on Synthetic and structural Chemistry”.*** Organized by Department of studies in Chemistry, Mangalore University, Mangalagangothri Mangalore. On 8th to 10th December 2011. *Synthesis and evaluation of 2,5-di(4-benzoyl)phenoxy methyl-1,3,4-oxadiazoles as anti-cancer agents.*
60. ***One day seminar on chemistry of materials on the occasion of International year of chemistry*** 2011 organized by Sri Jayachamrajendra college of 25th Nov 2011.
61. ***National seminar on Asymmetric synthesis and chiral separation techniques*** organized by JSS College of Pharmacy Mysore on 19th Nov 2011.
62. ***“International conference On vistas in chemistry (ICVC-2011)”.*** Organized by Indira Gandhi Centre for Atomic Research. Kalpakam. On 11th to 13th October 2011. *Synthesis and evaluation of oxazoline analogues as anti-inflammatory agent.*
63. ***“National conference on Recent trends in Chemistry”.*** Organized by Department of Chemistry, PES College of Science, Arts and Commerce, Mandya. On 16th and 17th September 2011. *Synthesis of azamacrocyclic ligands andtheir conversion into metallic complexes.*
64. ***National workshop on advance training in proteomics and genomics*** organized by Department of studies in biotechnology and microbiology Pooja Bhagavat Memorial Mahajana PG centre on 14th and 15th Sep 2011.
65. ***“National conference on Herbal Medicines in the era of globalization”.*** Organized by Department of Chemistry, Sahyadri Science College. Shivamogga. On 10th and 11th

- September 2011. *Efficacy of bioactive compounds from Curcuma aromatica against mosquito larvae.*
66. **“National seminar on Relevance of chemistry in chemical biology”.** Organized by Department of Chemistry St. Philomena’s College Mysore. On 21 and 22nd March 2011. *Synthesis of 3-imidazole-2-Phenyl thiazolidin-4-one and efficacy as xanthine oxidase inhibitory agents.* (Won Second Prize).
 67. **“International conference on The Impact of Climate change on food security”.** Organized by Bishop Moore College Mavalikara, Kerala. On 3rd to 5th March 2011. *Human health in changing climate.*
 68. **“International symposium on challenges in drug discovery programme -2011”.** Organized by Karnataka state Open University, Manasagangotri Mysore. On 16th and 17th February 2011. *Synthesis of (5-bromo-1H-indol-3-yl)-acetic acid 4-benzoyl-2-methyl phenyl esters and evaluation of xanthine oxidase inhibitory activity.*
 69. **“National symposium on frontier areas in chemical sciences and nanotechnology”.** Organized by Department of studies in chemistry Kuvempu University Shimoga. On 1st and 2nd May 2010. *Synthesis and biological evaluation of novel coumarin integrated benzophenone analogues.*
 70. **“International conference on Current trends in Chemistry and Biochemistry”.** Organized by Department of studies in chemistry and Bangalore university. On 18 and 19th December 2009. *Synthesis of 2-(4-aryloxy-aryloxymethyl)-7-methyl-[1, 3, 4] thiadiazolo [3,2-a]pyrimidin-5-ones and efficacy as anti-microbial agents.*
 71. **“Seminar on emerging trends in liquid crystals and coordination compounds”.** Organized by Department of chemistry, St. Philomena’s College. Mysore. On 21st and 22nd August 2009. *Synthesis of 4-chloro-2, 6-dibenzoyl phenols and their conversion into cobalt (III) complexes.*
 72. **“Conference on “The emerging areas in Chemistry NACEAC-2009”.** Organized by Department of studies in chemistry Manasagangotri Mysore, and Industries. On 31st July and 01st August 2009. *Synthesis and anti-inflammatory activity of piperidine and morpholine analogues.*
 73. **“Seminar on harnessing hydrogen for a clean green world”.** Organized by UGC and Maharani’s Science College for women, Bangalore. On 20th February 2009. *Presentation on Combating global warming using carbon dioxide.* (Won First prize.)
 74. **“38th National seminar on crystallography”.** Organized by DOS in Geology Manasagangotri Mysore. On 11th to 13th February 2009. *Presentation on Synthesis and crystallographic analysis of 2, 6-dibenzoyl-4-chloro phenol.*
 75. **“Seventh national convention of chemistry teachers National conference on chemistry vision 2020”.** Organized by Hislop college Nagpur. On 27th to 28th December 2007. *Oral presentation on synthesis and anti-inflammatory activity of oxazoline analogues.*
 76. **“Capacity building programme on Multimedia and E-content development”.** Organized by Consortium for education communication IUAC campus New Delhi in collaboration with EMMRC Mysore. On 27th November to 16th December 2006. *LOR on Nature’s prescriptions for common ailments.*
 77. **“Seminar on health and nutrition awareness”.** Organized by DOS in Food Science and Nutrition, UOM, Mysore. On 27th March 2006. *Health and nutrition awareness.*

78. **“National symposium on bioorganic and medicinal chemistry”**. Organized by Department of studies in chemistry Manasagangotri, Mysore. On 5th to 7th October 2005. *Heterocyclic compounds*.
79. **“Workshop on teaching methodology”**. Organized by Department of studies in chemistry Manasagangotri Mysore. On 15th July 2005. *Innovative development in teaching methodology in Chemistry*.
80. **“Indian science congress”**. Held at Bangalore, on 3rd to 7th January 2003. Synthesis and valuation of antimicrobial activity of 2-amino-5-(2-aryl) aroxymethyl-1, 3,4-oxadiazole analogues.
81. **“XX Conference of Indian council of chemists”**. Organized by Department of studies in chemistry Manasagangotri Mysore. On 22nd to 24th December 2001. *Photochemical induced dynamic nuclear polarization studies of 2-hydroxy benzophenones*.
82. **“National conference on materials for the new millennium”**. Organized by Dept. of applied chemistry cochin university, kochi. On 1st to 3rd March 2001. *Synthetic application of benzophenone derivatives and related analogues*.
83. **“IXX. conference of Indian council of chemists”**. Organized by Kuvempu University Shimoga. On 27th to 29th November 2000. *Synthesis in the field of benzophenone derivatives and related analogues*.
84. **“Recent trends in structure, functions, analysis of molecules and applications”**. Organized by Department of studies in Chemistry, Manasagangotri, Mysore. On 28th to 30th October. 1999. *Synthesis and electron impact of bishydrazones*.
85. **Workshop on “Incorporation Environmental Education into the curriculum teaching methodology.”** Organized by C. P. R Environmental education centre On 30th Dec 1997.

ORGANIZED SEMINAR /CONFERENCE:

- Webinar on nanoparticles on 23rd July 2021.
- One day National Seminar on Research and Publishing on 23rd March 2019.
- Worked as registration sub committee member during 103rd Indian Science Congress, held from 3rd to 7th Jan 2016,
- One day seminar on Kuvempu birth anniversary on 27th Dec 2014.
- National Seminar on Statistical Methods and Data Analysis on September 26th & 27th, 2014.
- National seminar on 150th Birth Anniversary Celebrations of Swami Vivekananda. Educational Vision and Mission of Swami Vivekananda on August 18th and 19th 2014.
- National seminar on biodiversity for food security on 24th -25th June 2005.
- State level seminar on frontiers of sciences and technology on 5th Jan 2004.

RESEARCH SUPERVISION:

- ❖ **Number Ph. D candidates awarded 13**
(Two under DST Inspire Fellowship, one under UGC Major Project Fellowship and three under Foreign National Fellowship)
- ❖ **Number of Ph. D candidates submitted thesis 01**
- ❖ **Number of PhD candidates currently working:**

- Foreign National Fellowship – 01
- Karnataka Minor student fellowship-01
- Kstep fellowship - 01
- others - 04

❖ Number of M. Phil candidates successfully completed: 10

❖ Number of Students Guided for PG dissertation : 30

RESEARCH PROJECTS:

| Sl no | Title of the project | Name of the funding agency | Duration | Amount | Status |
|-------|---|---|---|-----------------|-----------|
| 1. | Synthesis and anticancer activity of 2-oxo-2H-chromene-3- carboxylic acid-n-[2-(2-aroyle-aroyleoxy)-acetyl]-hydrazide | University of Mysore Mysore | 2 years 2006-2008 | 01 lakh | Completed |
| 2. | Synthesis of 2-(N-methyl indole) methyl-N(4 benzoyl) phenoxybutanone benzimidazoles and efficacy as anti-microbial agents. | UGC, New Delhi. | 3 years 2011-2014 | 12 lakhs | Completed |
| 3. | Synthesis of Coumarin Analogues as Neuroprotectants in <i>Drosophila melanogaster</i> . | Vision Group of Science And Technology. Bangalore. | Five months 15 th October 2011 to 15 th March 2012 | 0.3 lakh | Completed |
| 4 | Design synthesis and evaluation of benzoxazole and triazole analogues as xanthine oxidase inhibitors | Vision Group Of Science And Technology, Banagalore | 3 Years | 30 Lakhs | Completed |
| 5 | Nano synthesis of cadmium selenide and degradation of volatile organic compounds using the nanostructured materials | Vision Group of Science And Technology. Bangalore. | January to May 2015 | 0.3 lakh | Completed |
| 6 | Nano BF ₃ .SiO ₂ : A Green heterogeneous Solid acid for synthesis of azo dyes under solvent – free condition | Vision Group of Science And Technology. Bangalore. | January to May 2015 | 0.3 lakh | Completed |
| 7 | Mechanism based validation of novel antiangiogenic molecule BP-IB (benzophenone-IB) targeting HIF-1 α in hypoxia signaling: A drug development for cancer therapeutics | DBT | 2015-18 | 25 Lakhs | Completed |

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|----|---|-------|-----------|------------------------|-----------|
| 8. | Synthesis and characterization of metal organic framework nano-adsorbent for fluoride removal from drinking water | KSCST | 2019-2020 | 7.5 Thousand | Completed |
| 9. | Synthesis of novel metal nanocomposites and their applications in the treatment of domestic sewage and | KSCST | 2022-2023 | 8.0 Thousand | ongoing |

PARTICIPATION IN ACADEMIC COMMITTEES AND RESPONSIBILITIES

- Member of the IQAC .
- Member, Placement and Career Guidance cell.
- Member of the Academic Council.
- Member, Graduation Day Core Committee.
- Member, web committee.
- Member, College Time-table Committee.
- Member, UG and PG admission Committee.
- Member, Planning and development committee.
- Convener , Science forum.
- Member, talent search and Yureka feast committee .
- Member, RUSA committee
- Chairperson and member of BOS and BOE for UG and PG course.
- Chairperson and member of BOE for PG course in integrated M. Sc. (Molecular Biology) at Yuvaraja's College, Mysore.
- Member of BOS for PG course in integrated M. Sc. (Molecular Biology) at Yuvaraja's College, Mysore.
- Member, PG BOS and BOE, St. Philomena's College, Mysore
- Member, BOS, Autonomous College, Mandya.
- Member, BOE Maharani's Science College for Women, Mysore.

PARTICIPATION IN EXTENSION ACTIVITIES:

- ❖ Remedial coaching (Done through Sc/ST Special Cell)
- ❖ Rural Development Schemes-Creating awareness and popularizing science among rural high school students. Answering the queries of high school students, which are popularized in Andolana newspaper.
- ❖ Organizing and accompanying PG students for various research and pharmaceutical centers to get first hand exposure in their academic endeavor.
- ❖ Voluntary Organization NGO at Mysore.

MEMBERSHIP IN ACADEMIC SOCIETIES:

- ❖ Life member - Indian association of chemistry teachers.
- ❖ Life member - Indian society of analytical scientists.
- ❖ Annual member - Indian Council of Chemists.
