

CURRICULUM VITAE



- 1. NAME&ADDRESS** : Dr. VASANTHA KUMAR B C
 Asst. Professor & HOD of Chemistry
 DRM Science Degree college
 Davanagere-577 004
- 2. Email ID** : bcvasanthakumar@gmail.com
- 3. Google Scholar** : <https://scholar.google.com/citations?user=BoLd8BIAAAAJ>
- 4. Contact number(s)** : 9743144231
- 5. Qualifications** : M.Sc, Ph.D, CSIR- UGC(JRF-NET), K-SET
- 6. Academic Qualification (Undergraduate Onwards)**

Sl.No.	Degree	Subject	University/Institution
1	B. Sc.	Physics, Chemistry, Mathematics	Govt. Science College,Chitradurga, Kuvempu University
2	M.Sc.	Chemistry	Jnanasahyadri, Kuvempu University
3	Ph. D.	Chemistry	Manasagangotri, University of Mysore

7. Qualifying examination

Name of test	Roll number	Year of pass	Rank obtained
CSIR(UGC)-(NET)JRF	149057	Dec-2011	76
KSET	18270850	Nov-2014	--

8. Extracurricular activities:-

Had NCC training **33/A Karnataka Battalion** 'C' Certificate Completed

9. Number of International Research publications/ Book Chapter/Proceedings:

Articles Published/article in press : 17

Book Chapter : 03

10. INTERESTED RESEARCH FIELDS

- Organic Synthesis
- Coordination Chemistry
- DNA and Protein Interaction studies
- Catalysis
- Material science

11. Professional Recognition/ Award/ Prize/ Certificate, Fellowship received.

Sl. No.	Name of Award	Awarding Agency	Year
1.	Junior Research Fellowship CSIR(UGC)-(NET)JRF	UGC, New Delhi	2013-2017
2.	Life Member	Indian Science Congress Association	Life member

12. Work experience:

Sl. No	Name of the institution	Time period
1	Assistant Professor in Chemistry, Sarada Vilas College, Krishnamurthypuram, Mysuru- 570004	2015-2020
2	Subject matter expert-Chemistry (Online teaching platform) www.cheggindia.com www.bartleby.com	2020-2021
3	Assistant Professor & HOD in Chemistry DRM Science Degree college, Davangere	2021-present

13. Resource person

1. One day National Seminar Recent Development Trends in Chemistry as resource person on 16th Nov 2021 at RTES college Rannebennur, Haveri.
2. Awareness programme on Geneva Convention, Organized by Youth red Cross unit of DRM science College and Alumni Association in Association with Indian Red Cross Society, Davanagere District Branch, on 12-08-2022.
3. Six Day “Invited Lecture Series”, Organized by Department of Chemistry, RTES Degree College, Ranebennur in Colloboration with Department of Chemistry of DRM Science College, Davanagere, 11-12-2023 to 16-12-2023.
4. Awareness programme on Geneva Convention, Organized by Youth red Cross unit of DRM science College and Alumni Association in Association with Indian Red Cross Society, Davanagere District Branch, on 12-08-2024.

14. Academic positions Held

- 1) HOD Department of Chemistry, DRM Science college, Davanagere : 2021-till date

15. Refresher course/ Faculty Orientation programme / Faculty Development Programme /Training Programme

- 1) Attended One Day Awareness/Training Programme Under National Intellectual Property Awareness Mission, Organized by Intellectual Property Office, Government of India, on December 03, 2024.
- 2) Attended Two – week, Refresher Course from 30-06-2023 to 14-07-2023 at Ramanajun college, University of Delhi, New Dehli.
- 3) Attended One – week, Faculty Development Programme from 22-05-2023 to 26-05-2023 at B.M.S. College of Engineering, Bengaluru.
- 4) Attended 4 week, Induction/Orientation programme from 20th Dec 2021- 19th Jan 2022 at Teaching Learning Center, Ramanujan College, University of Delhi.

16. PUBLICATIONS

(List of Articles Published/ in press)

1. PN, Prashanth Kumar, KS, Pramod, H Pattanashetty, Shivarudrappa, **BC, Vasantha Kumar**, KV, Arun Aravindakshan, Abraham, Annu Laya, Varghese TV, Fabin and Bahir, Areej Al. "An efficient ZnO and Ag/ZnO honeycomb nanosheets for catalytic green one-pot synthesis of coumarins through Knoevenagel condensation and antibacterial activity" *Zeitschrift für Physikalische Chemie*, 2024
2. K M Prabhu Kumar, **B C Vasantha Kumar**, M. N. Sharath Kumar, P Raghavendra Kumar, S. Devaraju, Ray J Butcher and H D Revanasiddappa, Synthesis, structural characterization, CT-DNA interaction study and antithrombotic activity of new *ortho*-vanillin-based chiral (Se,N,O) donor ligands and their Pd complexes, *Inorganica Chimica Acta*, **528** (2021) 120609.
3. Surendra D M, Chandrashekar K T, **B C Vasantha Kumar**, Mahesh B and Chamaraja N A, Antimicrobial, Haemolytic and Antibiofilm Assay of Green Synthesized Silver Nanoparticles by Aqueous Extracts of *Rubia cordifolia*: *Int. J. Pharm. Sci. Rev. Res.*, 67:2 (2021) 174-184.
4. **B C Vasantha Kumar**, K B Manjunatha and Dileep Ramakrishna, Ruthenium-Benzimidazole complex: Structural, optical and solvent-free catalytic studies, *Chemical Engineering Journal Advances*, 2 (2020) 100010.
5. K M Prabhu Kumar, **B C Vasantha Kumar**, P Raghavendra Kumar, Ray J Butcher, H K Vivek, P A Suchetan, H D Revanasiddappa and Sabine Foro, Synthesis, characterization, CT-DNA binding and docking studies of novel selenated ligands and their palladium complexes, *Applied Organometallic Chemistry*, **34 (6)** (2020) 343-351.
6. K Savithri, **B C Vasantha Kumar**, Chandra and H D Revanasiddappa, Crystal structure, Hirshfeld analysis and HSA interaction studies of (E)-N'-((5-bromothiophen-2-yl)methylene)-3-hydroxynaphthalene-2-carbohydrazide, *Journal of Molecular Structure*, **1189** (2019) 343-351.
7. Disha Sharma, H D Revanasiddappa, **B C Vasantha Kumar**, B. Jayalakshmi and N D Rekha, Co(III) and VO(IV) complexes with new bidentate Schiff base: interaction with BSA and antimicrobial studies, *Biointerface Research in Applied Chemistry*, **9(1)**, 3776-3782 (2019).

8. **B C Vasantha Kumar**, K Savithri, Chandra, ManpreetKaur, Jerry P Jasinski, H D Revanasiddappa, 4-Chloro-2-(5,6-dihydro-benzo[4,5]imidazo[1,2-c]quinazolin-6-yl)phenol(HL); synthesis, characterization, crystal structure, Hirshfeld surface analysis and BSA binding studies, *Journal of Molecular Structure*, **1173** 481-489(2018).
9. K Savithri, **B C Vasantha Kumar**, H K Vivek and H D Revanasiddappa, Synthesis and Characterization of Cobalt(III) and Copper(II) Complexes of 2-((E)-(6-Fluorobenzo[d]thiazol-2-ylimino)methyl)-4-chlorophenol: DNA Binding and Nuclease Studies—SOD and Antimicrobial Activities, *International Journal of Spectroscopy*, **2018**, 1-12 (2018)
10. **B C Vasanthakumar**, Dileep Ramakrishna, ManpreetKaur, H D Revanasiddappa, Benzimidazolyl based Schiff base palladium complex in an ionic liquid: An effective combination for Suzuki coupling, *Journal of Coordination Chemistry*, **70**, 1573-1584(2017)
11. **B C Vasanthakumar**, G K Lohith, H D Revanasiddappa, Co(III) and Cu(II) benzimidazole Schiff base complexes: Synthesis, Characterization and DNA binding and cleavage activity, *Journal of Chemical, Biological and Physical Sciences*, **7**(4),882-895 (2017)
12. K Savithri, **B C Vasantha Kumar**, H D Revanasiddappa, H K Vivek, ManpreetKaur, Jerry P Jasinski, 2-((E)-(6-fluorobenzo[d]thiazol-2-ylimino) methyl)-4-chlorophenol; synthesis, characterization, crystal structure, Hirshfeld surface analysis and BSA binding studies, *Journal of Molecular Structure*, **1142**, 293-303 (2017)
13. K Savithri, **B C Vasantha Kumar**, H D Revanasiddappa, Synthesis, characterization and BSA interaction studies on Co(III) and VO(IV) complexes of 2-[(Benzo[1,3]dioxol-5ylmethylene)-amino]-pyridin-3-ol, *Journal of Chemical, Biological and Physical Sciences*, **7**, 410-425 (2017)
14. **B C Vasantha Kumar**, L. Shiva Kumar and H D Revanasiddappa, Synthesis characterization antimicrobial and antioxidant studies and of oxovanadium(IV) and zinc(II) complexes with imine based ligand, *JSSCM Journal*, **4**(1), 21-27 (2015)
15. A Bushra Begum, N D Rekha, **B C Vasantha Kumar**, V Lakshmi Rnaganatha, ShaukathAraKhanum, Synthesis, Characterization, biological and catalytical applications of transition metal complexes derived from Schiff base, *Bioorganic and Medicinal Chemistry Letters*, **24**, 3559-3564 (2014)

16. H N Deepakumari, M K Prashanth, **B C Vasantha Kumar**, H D Revanasiddappa, Highly sensitive and validated spectrophotometric technique for the assay of some antidepressant drugs, *Journal of applied spectroscopy*, **81**, 1004-1011(2014)
17. M S Asha, ABushra Begum, Rekha, **B C Vasantha Kumar**, V Lakshmi Rnaganatha, Shaikh Ara Khanum, Synthesis, Characterization, Thermal, Anticancer and DNA binding properties of Co(II), Ni(II), Cu(II), Cd(II) and Zn(II) Complexes with Schiff base, *International Journal of medicine and Pharmaceutical Sciences*, **4**(3), 41-52 (2014)

17. BOOK CHAPTER/BOOKS/PROCEEDINGS

1. Shivarudrappa H P, **B C Vasantha Kumar**, Nisha S. P, and Santhosh B M (2024), Synthesis and Characterization of MgO-Graphene Oxide Nanoparticles for Optoelectronic Devices, Nagaswarupa, H.P., Sillanpää, M.E.T., Ananda Murthy, H.C., & Naik, R. (Eds.). Multifunctional Inorganic Nanomaterials for Energy Applications (1st ed.). CRC Press. <https://doi.org/10.1201/9781003479239> (Taylor & Francis)
2. **Vasantha Kumar, B.C.**, Madhu Kumar, R., Shivarudrappa, H.P., Santhosh, B.M., Prashantha Kumar, P.N. (2024). Characterization Methods for Nanomaterials in Energy Storage. In: Naik, R., Nagaswarupa, H.P., Ananda Murthy, H.C., Sillanpää, M.E.T. (eds) Advanced Nanomaterials for Energy Storage Devices. Nanostructure Science and Technology. Springer, Cham. https://doi.org/10.1007/978-3-031-74730-4_4
3. B. M. Santhosh, H. P. Shivarudrappa, **B. C. Vasantha Kumar**, P. N. Prashantha Kumar, Soniya D. Naik, Prasannakumar Jammappa Kallappa, Divya T, (2024). Case Studies: Nanomaterials in Specific Energy Storage Devices. In: Naik, R., Nagaswarupa, H.P., Ananda Murthy, H.C., Sillanpää, M.E.T. (eds) Advanced Nanomaterials for Energy Storage Devices. Nanostructure Science and Technology. Springer, Cham. https://doi.org/10.1007/978-3-031-74730-4_8

18. INTERNATIONAL/ NATIONAL SEMINARS/CONFERENCES/WORKSHOPS

1. Presented poster in the National conference on '*Recent Innovations in Medicinal and Material Chemistry*' held during 8th and 9th March 2019, at Department of Studies in Chemistry, Manasagangothri, University of Mysore, Mysuru, Karnataka, India.

2. Presented poster in the International Conference on “**Science and Technology: Future Challenges and Solutions**” held during 8th and 9th August 2016, at VijnanaBhavan, University of Mysore, Mysuru, Karnataka, India.
3. Participated in Two days seminar and Exhibition on “**Energy Mix: Need for the Nation**” Organized in association with Indian Nuclear Society-Mysuru Chapter held on January 11-12, 2017 at department of chemistry, The National Institute of Engineering, Mysuru, Karnataka, India
4. Participated in “**103rd Indian Science Congress**” held at university of Mysore, Mysuru from Jan 3 to 7, 2016
5. Participated in UGC sponsored Two day National conference on “**Emerging Trends in Chemistry**” held at St. Philomena college, Mysuru during 11th and 12th March 2016.
6. Presented poster in the UGC Sponsored two day national conference on “**Current Trends in Chemical Biology**” held on 2nd and 3rd march 2015 organized by JSS college of arts, commerce and science
7. Participated in National conference on “**Frontier Areas in Chemical Sciences-FACS-2015**” on 10th Jan, 2015. Organized by Department of Studies in Chemistry(PG/UG), Bharathi College, Bharathinagara, Maddur, Mandya.
8. Participated in One Day National Seminar on “**Chemistry and Chemical Biology**” held on 26th May, 2015 on the Occasion of Prof. K.S. Rangappa’s 60th birthday celebration at university of Mysore, Mysuru
9. Presented poster in international symposium on “**Chemical biology – Drug Discovery**” organized by university of Mysore, Mysuru on Jan 9-10, 2014
10. Participated in National conference on “**Pure and Applied Chemistry-2014(NACOPAC-2014)**” on 29th to 31th December, 2014. Organized by Department of Studies in Chemistry, Manasagangotri, University of Mysore, Mysuru.

11. Presented poster in two day UGC Sponsered national conference on **“Recent Trends in Medicinal Chemistry”** organized by JyothiNivas College, Bengaluru on 3rd and 4th Sept. 2014
12. Presented a paper in the **“101th Indian Science Congress”** held at Jammu University, Jammu from February 3rd to 7th, 2014. Organized by Indian Science Congress association, Kolkata.
13. Participated in the CEP course on **“ESR Spectroscopy Techniques and Applications”** conducted by IIT Bombay during February 4th-6th, 2013
14. Has completed **“Communicative English Course”** comprising training from 10.06.2013 to 22.08.2013. Organised by CPDPS University of Mysore, Mysuru.

19. INTERNATIONAL/ NATIONAL WEBINARS:

1. Participated in FDP programme on ‘Applications of Nanotechnology in Bio-medicine and energy’ on 13th and 14th July 2020. Organized by Department of Chemistry RGM College of Engineering and Technology-(Autonomous), Nandyal
2. Participated in one day FDP programme on ‘Drug Design and Development’ on 10th June 2020. Organized by Department of Chemistry Sapthagiri College of Engineering – Bangalore-560 057
3. Participated in the webinar on ‘Powder X-ray Diffraction’ on 8th July 2020. Organized by Department of Chemistry, Sai Vidya Institute of Technology – Bangalore-560 064.
4. Participated in two days International webinar on ‘Advancements in Chemical Sciences Towards COVID-19’ on 12th and 13th June 2020. Organized by Department of Chemistry, Rani Channamma University, Belagavi -591 156.
5. Participated in the webinar on ‘Symmetry and Group Theory’ on 21st June 2020. Organized by Department of Chemistry, Reva University– Bangalore.
6. Participated in International webinar on ‘Nanomaterials for Smart and Sustainable Energy Solutions’ on 8th June 2020. Organized by Department of Physics, Mahatma phule Arts, Science and Commerce College, Raigad - 410 206.

7. Participated in the webinar on ‘Antiviral and Immunostimulant agents from medicinal plants’ on 22nd June 2020. Organized by Department of Botany, Raja Lakhamagouda Science Institute– Belagavi 580 001.