

PROFILE

Name	Dr.HEMAKUMAR K H
Position & Affiliation	Professor and HOD, Department of Chemistry
Areas of Interest	<ul style="list-style-type: none">• Synthesis of heterocyclic molecules of medicinal importance, their anti-cancer efficacy studies• Chemistry of natural products• Environmental chemistry
Email	hod.chem@cambridge.edu.in
LinkedIn ID	https://www.linkedin.com/in/hod-chemistry-a369bb240/
Google Scholar ID	https://scholar.google.com/citations?user=8wT3ARUAAAAJ&hl=en&authuser=1
Orchid ID	0000-0002-5919-8563
Vidwan ID	https://vidwan.inflibnet.ac.in/profile/270613
Scopus ID	12795810800
Professional Webpage (if any)	https://www.researchgate.net/profile/Hemakumar-Kh

Educational Qualifications:

Ph.D	University of Mysore	India	2008
M.Sc	University of Mysore	India	2002
BSc	University of Mysore	India	1999
B.Ed	University of Mysore	India	2000

Areas of Research:

- Synthesis of heterocyclic molecules of medicinal importance, their anti-cancer efficacy studies
- Chemistry of natural products
- Environmental chemistry

Brief Profile: (write about yourself)

Dr. Hemakumar K H, is working as Professor & Head in the Department of Chemistry at Cambridge Institute of Technology. He holds B.Sc. degree in PCM, M.Sc degree in Chemistry, Bachelor's degree in education and a Ph.D in Chemistry from the University of Mysore in the year 2008. His area of research includes synthesis of heterocyclic molecules of medicinal importance, their anti-cancer activity efficacy studies, chemistry of natural products and environmental chemistry. He worked in research projects at The CSIR-CTFRI at Mysore for 2 and half years

gained real-time experience in handling research projects and instrumentation techniques.

He has published 11 papers in International/National journals and presented 3 papers in International and National conferences/seminars. Currently he is guiding a Ph.D student under VTU, Belagavi.

He has participated in various workshops, seminars and FDP's conducted by various colleges under VTU.

He has around 19 years of teaching experience and is associated with Cambridge Institute of Technology from 2012.

Awards/Achievements/Others:

Best poster award in IFCON-2004 CONFERENCE held at The CSIR-CTFRI at Mysore in 2004. BOE,VTU, Belagaavi for B.E. Applied Chemistry course and Ph. D course work examinations

Appointed as VTU Nominee for BOS of East Point College of Engineering and Technology, Bengaluru

Courses Taught: Undergraduate B.Sc , M.Sc (science) & B.E (engineering) degree students

Publications/Patents:

Publications

- M. Madhukara Naik, M. Vinuth,, V. Udaya Kumar, K. H. Hemakumar, G. Preethi, M. Prathap Kumar & G. Nagaraju A facile green synthesis of nickel ferrite nanoparticles using Tamarindus Indica seeds for magnetic and photocatalytic studies, Nanotechnology for Environmental Engineering, <https://doi.org/10.1007/s41204-022-00257-x> ISBN: 2365-6379
- Madhukara Naik, K. Karthik, M Vinuth, M., H. S. Bhojya Naik & **K. H. Hemakumar**, A Facile Green Synthesis of Nickel Ferrite Nanoparticles using Tamarindus Indica Seeds for Magnetic and Photocatalytic Studies, *Research on Chemical Intermediates*, 2022, 47, NO.6, 1153, ISBN: 0922-6168.
- Padmavathy N, Narasimha murthy B N, Manjunath Reddy, **K. H. Hemakumar**, Direct sunlight driven photocatalytic degradation of hazardous organic dyes using TiO2-NiO nanocomposites p-n junction, *International Conference Journal on Advances in Physical Sciences and Materials*, 2021, Accepted, 1-14, Conf. Ser 2070 0120.
- **K. H. Hemakumar**. A. D. Sathisha and Y. B. Basavaraju, Synthesis, Anticancer and Antimitotic activity of Analogues of Podophyllotoxin on B16F10 Melanoma Cell lines and Allium cepa L, *Biomedicine*, Volume 39, Issue 04, October- December 2019 2019, 39, 4, 571- 579 ISBN: 0970 2067
- M Vinuth, M. Madhukara Naik, K. Karthik, H. S. Bhojya Naik & **K. H. Hemakumar**, Detailed study on reduction of hazardous Cr(VI) at acidic pH using modified montmorillonite Fe(II)-Mt under ambient conditions, *Research on*

Chemical Intermediates, January 2019, 45:2357-2368 Volume 45 Number 4.

- M. Mahadeva Swamy, B.M. Nagabhushana, **K.H Hemakumar**, Nagaraju K, Kinetics and isotherms studies on removal of dye and heavy metal ion from aqueous solution by using agricultural waste weed activated carbon. *International Journal of Environmental Sciences, Accepted April-2018*.
- **K. H. Hemakumar**. A. D. Sathisha and Y. B. Basavaraju, Synthesis and anti-cancer activity study of new tetralone ester intermediates of anti-cancer agent β -apopicropodophyllin. *Indo-American Journal Pharmaceutical Research, Vol 6, Issue 05, May-2016*.
- M. Mahadeva Swamy, N. Padmavathy, S.Preetha, **K.H Hemakumar** B.M. Nagabhushana, Adsorption of hazardous azo dye from aqueous solution onto Parthenium flower activated carbon: Approach to the batch and regeneration studies, *International Journal of Engineering Research*, Volume No.5 Issue: Special 4, pp: 790-991, 20 May 2016.
- S. N. Sheshadri, P. Nagendra B. P. Siddaraju, **K. H. Hemakumar**, K. Byrappa, N. K. Lokanath and S. Madan Kumar: Crystal structure of {[2-hydroxy-2-(3-methoxyphenyl)cyclohexyl]methyl}-dimethylammonium benzoate. *Acta. E-Crystallographic Communications, Acta Cryst. (2015). E71, 0864–0865*.
- A. D. Sathisha, **K. H. Hemakumar** and Y. B. Basavaraju,, Synthesis and characterization of tetralone esters as intermediates for the synthesis of podophyllotoxin analogues, *Indian Journal of Heterocyclic Chemistry, Vol. 17, July-Sept 2007, pp 15-18*.
- **K. H. Hemakumar**. A. D. Sathisha and Y. B. Basavaraju, Synthesis and Characterization of New Diketone Analogues of Podophyllotoxin, *E- Journal of Chemistry, Vol. 5, No. 1, Jan 2008, pp 114-119*.
- B. Sadashivamurthy, Y. B. Basavaraju, A. D. Sathisha and **K. H. Hemakumar**: “New tetralone acid intermediates for the synthesis of β -apopicropodophyllin analogues,” *Bulgarian Chemical Communications, Volume. 39, Number 4 (pp-264-268), 2007*
- Devaraju, Y. B. Basavaraju, **K. H. Hemakumar** and A. D. Sathisha: “ New tetralone intermediates for the synthesis of podophyllotoxin analogues ” *Bulgarian Chemical Communications, Volume. 39, Number 2 (pp-165-168), 2007*.
- A.G. Gopala Krishna, **K.H. Hemakumar**, Sakina Khatoon: “Acidity of Oryzanol and Its Contribution to Free Fatty Acids Value in Vegetable Oils, *Journal of American Oil Chemist’s Society, Vol. 83, no. J11198, 999-1005. (December 2006)*.
- A.G. Gopala Krishna, **K.H. Hemakumar**, and Sakina Khatoon: “Study on the Composition of Rice Bran Oil and Its Higher Free Fatty Acids Value, *Journal of American Oil Chemist’s Society, Vol. 83, no. J11200, 117-120 (February 2006)*.

Patents

Method for preparing an aromatic polyester with reduced graphene oxide composite,

	Patent No. 471257, Application No. 202141038614. Date of grant: 21/11/2023.
Book/Book Chapters	Published text book entitled “APPLIED CHEMISTRY FOR CSE AND ALLIED BRANCHES”,authors Dr.Padmavathy N, Dr.Hemakumar K H, Dr.Preetha S; ISBN: 978-93-86550-61-3. SUNSTAR PUBLISHERS, Bengaluru.
Research and Consultancy: Water quality basic parameters analysis facility	