Dr. Keshav Lalit Ameta

Designation: Associate Professor

Specialization: Organic Chemistry

Address: Department of Chemistry,
Sardar Patel University, V. V. Nagar-388120, Gujarat, Bharat.

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Date of Birth: 07/06/1977

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Educational Qualifications

- M.Sc (Organic Chemistry), ML Sukhadia University,1999
- Doctor of Philosophy in Chemistry, ML Sukhadia University, 1999-2002

Academic Experience

- Dean, School of Liberal Arts and Sciences, Mody University of Science and Technology, Lakshmangarh-332311, Sikar, Rajasthan, India. (15th January 2022 – 25th April 2022)
- Professor, Department of Chemistry, Mody University of Science and Technology, Lakshmangarh-332311, Sikar, Rajasthan, India. (1st January 2020 – 25th April 2022)
- Associate Professor, Department of Chemistry, Mody University of Science and Technology, Lakshmangarh-332311, Sikar, Rajasthan, India. (1st January 2015 – 31th December 2019)
- Assistant Professor, Department of Chemistry, Mody University of Science and Technology, Lakshmangarh-332311, Sikar, Rajasthan, India. (1stJuly 2009–31th December 2014)
- Lecturer, Department of Chemistry, MCASC-MIER, Lakshmangarh-332311, Sikar, Rajasthan, India. (18th July 2006–30th June 2009)

Research Area

- Organic Synthesis, Heterogeneous Catalysis

Expertise

- Spectroscopy, Reaction Mechanism, Retro-synthesis

No. of Publication

Books	: **09**
Journal Articles	: **54**
Patent	: **03**
Book Chapters	: **31**
Magazine Articles	: **02**

API Category-III- 925+
https://vidwan.inflibnet.ac.in/profile/206892
https://www.scopus.com/authid/detail.uri?authorId=7801495500
https://scholar.google.co.in/citations?user=monZ2wYAAAAJ&hl=en

Ph. D. Supervised: Eight.

1. Dr. Nitu Singh Rathore, Ph D (2013): "Studies Related to Some Michael Acceptors".
2. Dr. Biresh Kumar, Ph D (2013): "Studies on the Chemistry of 1,3-Diarylpropenones of Biological Interests.
3. Dr. Neema Papnai (2014) "Photocatalytic degradation of some dyes using bimetal oxide nanoparticles as photocatalysts".
4. Dr. Ajay Singh Sisodiya (2015) "Preparation of N, S-doped titanium dioxide and its application in waste water treatment.
5. Dr. Deepika Shah (2015) "Development of Quantitative Methods for Analysis of Drugs"
6. Dr. Jyoti Sharma (2018) Synthesis, Characterization and Applications of some Undoped and Doped Ternary Oxides Nanoparticles.
7. Dr. Priyanka Khyaliya (2020). Synthesis and Biological evaluation of some heterocycles derived from potentially bioactive chalcones.
8. Ms. Ahanthem Priyanca Devi (2021): Sustainable Approach for the design and synthesis of some Michael acceptors derived potentially bioactive heterocyclic systems.

Projects Completed:

1. DST Indo-Argentina International Joint Project: Sanctioned in June 2015, and completed in Feb 2019. (Ref.: DST/INT/Argentina/P-06/2015) Indo-Argentine joint research proposal entitled "Applications of Bioactive heterocycles in drug discovery: Pharmacological significance of some synthetic and natural heterocycles scaffold."
2. Mody University Seed Money Research Grant: Received funding of Rs 1,85,000/- for research proposal titled "Synthesis of Some Chalcones and their Antifeedant

Studies". Project sanctioned on 5th April 2016 and completed in March 2017.

3. Three student projects have been completed sponsored by DST, Rajasthan.

a. Ms Neema Papnai- "Use of Cerium Iron Oxide nanoparticles in photocatalytic degradation of some dyes" 2013.
b. Ms Nitu Singh Rathore- "Synthesis and biological evaluation of some novel 1,4-benzodiazepins"2013.
c. Mr Biresh Kumar- "Synthesis and biological evaluation of some heterocyclic derivatives of Isatin" 2013.

Patents:

Granted:

1. International Patent (Australian): Australian: Bismuthino for Biomedicinal application and its analytical synthesis thereof. Appl. No. 2021103847, Inventor- Dr Ravi Kant and Dr K L Ameta

Published (National)

2. Indian Patent: 202011017813A. A Novel Heterocyclic Bismuthine Compound for Bio-medicinal Application and Method of Synthesis Thereof. Ameta, K. L. (Applicant and Inventor), Kant, Ravi, Pandey Jaya, Rani, Preeti, Khan, I. A. and Kumar Atul. Publication date 19 June, 2020. (The Patent Office Journal No. 25/2020 Dated 19/06/2020, P.23067).
3. Indian Patent: 202011020255A. A Novel Bismuthino for Bio-medicinal Application and Method of Synthesis Thereof. Ameta, K. L. (Applicant and Inventor), Kant, Ravi, Pandey Jaya, Gupta, Pramila, Khan, I. A. and Pandey Manju. Publication date 19 June, 2020.(The Patent Office Journal No. 25/2020 Dated 19/06/2020, P.23092).

Filed (International)

4. International Patent: Method of Synthesis and Biomedicinal Applications of Novel Heterocyclic Bismuthine, Appl No. PCT/IB2020/055449 (WIPO-PCT)

Organized International Conference: International Conference was organized in association with CSIR, DST and BRNS on "Modern Approaches of Chemical Science and Nanomaterials-2019" by Department of Chemistry, School of Sciences, Mody University of Science and Technology, Lakshmangarh- 332311, Rajasthan, INDIA from **August 26-27, 2019**. I was the convener of the conference.

Attended Two week FDP on Entrepreneurship "Issues, Challenges and Mitigation on Entrepreneurship Development in India" sponsored by DST-NIMAT, dated March 2-14, 2020 Two Weeks Faculty Development Program Organized by Mody University of Science and Technology, Lakshmangarh-332311, Rajasthan, India.

Organized DBT Sponsored Short-term teachers training (STT) program entitled "Molecular Biology and Organic Synthesis" sanctioned with fund of Rs 2.8 Lack on dated 07.03.2012 order BT/HRD/02/07/11 by DBT, MST, Govt of India, for training of advance techniques in Chemistry and Biology to Universities/college teachers and has been organized from 5.7.12. To 20.7.12 at MITS campus, I was the **course director** for the same.

International Research Collaboration:

1. **Prof. Vnira. R. Akhmetova-** Institute of Petrochemistry and Catalysis, Ufa, Russia.
2. **Prof. Andrea Penoni-** University of Insubria, Como, Italy.
3. **Prof. Won Chun Oh-** Hanseo University, South Korea.
4. **Prof. Saksit Chanthai**-Khon Kaen University, Khon kaen, Thailand.

Award:

5. **International visiting scholarship** has been awarded by Khon Kaen University, Khon Kaen-40002, Thailand and worked in collaboration with Prof Saksit Chanthai, Department of Chemistry, Faculty of Science, KKU on Synthesis of some chromophores.

Publications:

Books

1. "N-Heterocycles - Synthesis and Biological Evaluation" K. L. Ameta *et. al,* ISBN 9789811908316, Springer, 2022.

2. "Nanocatalysis: Synthesis of Bioactive Heterocycles" Dr K L Ameta and Dr Ravi Kant, Taylor and Francis, 2022.

3. "Hydroxytriazenes and Triazenes: The Versatile Framework; Synthesis and Medicinal Applications" Dr. A. K. Goswami, Dr K L Ameta and Dr S Khan. Taylor and Francis Publisher, NY, USA. ISBN 9781138597204, September 2020.

4. "Multicomponent Reactions: Synthesis of Bioactive Heterocycles" Dr K. L. Ameta and Dr. Anshu Dandia. CRC: Taylor and Francis Publisher, NY, USA. ISBN 9781498734127, May 2017.

5. "Green Chemistry: Synthesis of Bioactive Heterocycles" Dr. K. L. Ameta and Dr. Anshu Dandia, Published, ISBN 978-81-322-1849-4, Springer, Sept 2014.

6. "Natural Heterocycles: Extractation and Biological avtivity" Dr K. L. Ameta, Dr. Saksit Chanthai. ISBN 978-1-63463-424-3, Nova Science Publisher, NY, USA. 2015

7. "Heterogeneous Catalysis: A Versatile Tool for the Synthesis of Bioactive Heterocycles" Dr K. L. Ameta and Dr. Andrea Penoni. CRC: Taylor and Francis Publisher, NY, USA. ISBN:978-1466594821, October 2014.

8. "Bioactive Heterocycles: Synthesis and Biological Evaluation" Dr K. L. Ameta, Dr. R. P. Pawar and Dr. A. J. Domb. Nova Science Publisher, NY, USA. ISBN: 978-1-62257-636-4. 2013

9. "The Biochemistry of Chalcones" Dr. K. L. Ameta, Dr. V. K. Gupta and Dr. R. Gaur, Lap-Lambert Publication, Germany. ISBN 978-3-8443-2258-3. 2012

<u>Research Articles:</u>

1. Montmorillonite KSF mediated Favorskii reaction based eco-friendly fabrication of some 1,3-diarylpropenones using phenyl acetylene and aromatic aldehydes.
   Keshav Lalit Ameta, Priyanka Khyaliya and Ahenthem Priyanca Devi, *J. Iran. Chem. Soc.* https://doi.org/10.1007/s13738-022-02577-w, 2022. IF 2.02
2. An Overview of Palladium-Catalyzed Fabrication of Some Heterocyclic Frameworks.

Ahanthem Priyanca Devi,Andrea Penoni, Vnira. R. Akhmetova, Rajendra P. Pawar, Is Fatimah and Keshav Lalit Ameta, Accepted in MROC, May 2022, Bentham, IF 2.49

3. Investigation of Photocatalytic Mineralization of Acridine Yellow G dye by $BaCrO_4$ in the Presence of Eco-friendly LEDs Irradiation.
   Vijendra Singh Solanki, Keshav Lalit Ameta, Brijesh Pare, Sreekantha B. Jonnalagadda and Premlata Gupta, 99, *J. Indian Chem. Soc*. (Elsevier), 2022, 99 (3) 100340, https://doi.org/10.1016/j.jics.2022.100340

4. 2-(phenyl)-4H-chromen-4-ones: Green Synthesis, characterization, in vitro antifungal evaluation and molecular docking approach toward *Aspergillus fumigatus*.
   Ahanthem Priyanca Devi, Naveen Dhingra, Uma Bhardwaj, Chetan K Joshi, Shivendra Singh and Keshav Lalit Ameta*, *Curr. Res. in Green and Sustainable Chemistry, Volume 5, 2022, 100234,* Elsevier, https://doi.org/10.1016/j.crgsc.2021.100234,
5. Bis-and mono-substituted Chalcones exert anti-feedant and toxic effects on fall armyworm Spodoptera frugiperda. (IF 4.2)
   Ahanthem Priyanca Devi, Ahmad Alsulimani, Jose R. Hidalgo, A. Neske, R. Z. Sayyed, Keshav Lalit Ameta. *Saudi J. Biol. Sci.* 28(10), 5754-5759, Elsevier, June 2021.

6. Versatile approach for the synthesis of furo-coumarin derivatives (Accepted in Current Organic Chemistry, Bentham) (IF 2.18)
   Singh N., Rajotiya K., Lamba N., Singh H. L., Ameta K. L., Singh S. 26, 2022, p 1-18, DOI: 10.2174/1385272826666220126155703

7. CuO Nanocatalyzed Improved Synthesis of Some 2- Aminopyrimidines. (IF 0.8)
   Ahanthem Priyanca Devia and Keshav Lalit Ameta*, *Orbital-The Electronic Journal of Chemistry*.13(3) June 2021, 259-263.
8. Chemo-electrical gas sensors based on LaNiMoSe2 in Graphene and conducting polymer PANI combined semiconductor nanocomposite. (IF 1.8)
   Journal of Electronic materials, 10, 2021, pp 5754-5764. doi:10.1007/s11664-021-09082-5
9. Aminoglycosides as potential inhibitors of SARS-CoV-2 main protease: an in silico drug repurposing study on FDA-approved antiviral and anti-infection agents. (IF 3.7)
   Mohammad Z Ahmed, Qamar Zia, Anzarul Haque, Ali S Alqahtani, Omar M Almarfadi, Saeed Banawas, Mohammed S Alqahtani, Keshav L Ameta, Shafiul Haque, *Journal of Infection and Public Health*, 14(5), 2021, Pages 611-619. https://doi.org/10.1016/j.jiph.2021.01.016.
10. Diverse Routes for the Synthesis of Indole-Fused Complex Architecture from Simple Molecules. (IF 2.49)
    Shivendra Singh, Suresh Singh Chauhan, Neeraj Kumar Sharma, Sunil Dutt and Keshav Lalit Ameta. *Mini-Reviews in Organic Chemistry,* 2020 (18), 1-22, 2020.
11. A Versatile Pre and Post Ugi Modification for the Synthesis of Natural Product Inspired Fused Peptide-Carboline Scaffolds as Potential Anti-Leishmanial Agents. (IF 2.1)
    Irfan Khan, Jaybir Singh, Vivek Kumar, Ved Prakash Verma, Monika Shukla, Anupam Dhasmana, Puspendera Singh Naruka, Ajay Kumar Goswami, Keshav Lalit Ameta, and Shahnawaz Khan. *Chemistry Select,* 2019, 4(42), 12260– 12267. DOI: 10.1002/slct.201902441.
12. Simultaneous determination of Hg(II) and Cu (II) in water samples using fluorescence quenching sensor of N-doped and N,K co-doped graphene quantum dots. (IF 5.16)
    Chayanee Kaewproma , Yonarpach Areerobb , Won-Chun Oh , Keshav Lalit Ameta and Saksit Chanthai, Vol. 13 (2), P:3714-372, *Arabian Journal of Chemistry* (Elsevier) 2020.

13. Anti-microbial and anti-tumor studies of newly synthesized 2-(4-morpholinyl)-4,6-diarylpyrimidines using nanosized NiO catalytic framework. (IF 0.52)
    Priyanka Khyaliya, Ahanthem Priyanca Devi, Sudesh Kumar, Ravi Kant, and Keshav Lalit Ameta. *Chem. Biol. Lett,* Vol. 7 (1) 2020, p-55-62.

14. Cysteine rich antimicrobial peptides from plants: The future of antimicrobial therapy. (IF 5.87)
    Shilpi Srivastava, Kavya Dashora, Keshav Lalit Ameta, Nagendra Pratap Singh, Hesham Ali El-Enshasy, Marcela Claudia Pagano, Abd El-Latif Hesham, Gauri Dutt Sharm,a Minaxi Sharma and Atul Bhargava. *Phytotherapy Research*.35:256–277, 2021. DOI: 10.1002/ptr.6823.
15. Changes in Ecophysiology, Osmolytes, and Secondary Metabolites of the Medicinal Plants of *Mentha piperita* and *Catharanthus roseus* Subjected to Drought and Heat Stress. (IF 4.87)
    Alhaithloul, H.A.; Soliman, M.H.; Ameta, K.L.; El-Esawi, M.A.; Elkelish, *Biomolecules*, Vol. 10 (1), 2020, P 1-21.

16. Skeletal Diversity in Catalytic Synthesis of (1,3-Oxazacycloalk-3-ylmethyl)-Substituted Pyrroles. (IF 0.87)
    V. R. Akhmetova, E. M. Bikbulatova, R. V. Kunakova, K. L. Ameta, and A. G. Ibragimov. *Russian Journal of General Chemistry*, Vol. 89 No. 9 2019,p1760-1764.
17. Identifying novel inhibitor of quorum sensing transcriptional regulator (SdiA) of Klebsiella pneumoniae through modelling, docking and molecular dynamics simulation. (IF 3.5)
    Mohammad Z. Ahmed, Ghazala Muteeb, Saif Khan, Ali S. Alqahtani, Pallavi Somvanshi, Mohammed S. Alqahtani, Keshav Lalit Ameta and Shafiul Haque. *Journal Biomolecular Structure and Dynamics,* 39(10), 3594-3604, May 2020, https://doi.org/10.1080/07391102.2020.1767209.

18. Synthetic bis- and mono-chalcones with insecticide effects on *Spodoptera frugiperda* (Lepidoptera: Noctuidae). (IF 1.09)
    José Ruiz Hidalgo, Melina Santillán, Eduardo Alberto Parellada, Adriana Neske[1], Priyanka Khyaliya and Keshav Lalit Ameta DoI: 10.1080/09670874.2019.1575487, *Int. J. Pest Manag*. Vol. 66 (1) 2019, Pages 116-121, Taylor and Francis. UGC:23315
19. Ionic liquid assisted synthesis of some 2-aminobenzenethiols. (IF 0.86)
    D K Jangir, Keshav Lalit Ameta, S. Dhadda, A. Guleria, P. Goswami and C. Khandelwal, *Lett Org Chem*, Vol. 15, 2018, 245-251. DoI: 10.2174/1570178615666181011114454.
20. A novel synthesis of *N*-hydroxy-3-aroylindoles and 3-aroylindoles.(IF 3.87)
    Gabriella Ieronimo, Giovanni Palmisano, Angelo Maspero, Alessandro Marzorati, Luca Scapinello, Norberto Masciocchi, Giancarlo Cravotto, Alessandro Barge, Marco Simonetti, Keshav Lalit Ameta, Kenneth M. Nicholas and Andrea Penoni. *Org. Biomol. Chem.,* 16 (38), 2018, p. 6829–7056, DOI: 10.1039/C8OB01471J(IF 3.42)

21. BiOCl pro-catalyzed synthesis of benzoxazepines from 4'-hydroxy-3', 5'-dinitro substituted chalcones and ortho-aminophenol.
    K. L. Ameta. *Lett Org Chem*, Vol. 11 (2), 2014, 97-100. (IF 0.86)
22. PPA-SiO_2 catalyzed solvent free synthesis of some novel 4,6-diaryl-2,3a,4,5-tetrahydro-3H- indazol-3-ones from 3,5-diaryl-6-carbethoxy cyclohexenones.
    K. L. Ameta *Res. Chem. Intermediates*, 41, pp 3433–3445 (2015) DOI: 10.1007/s11164-013-1446-z. October 2013. (IF 2.91)

23. ZnS nanoparticles: An efficient catalyst for the one-pot synthesis of spiro [pyrrolidine-2, 3′-oxindole] derivatives from phenothiazinyl chalcones
    K. L. Ameta, B. Kumar and N. S. Rathore. *Lett Org Chem*, Vol. 10 (4), 2013, 245-251. (IF 0.86)
24. Synthesis of some new substituted oxiranes from 4′-hydroxy-3′, 5′-dinitrochalcones and their sulfanilic acid catalyzed aminolysis.
    K. L. Ameta, B. Kumar and N. S. Rathore. *Res. Chem. Intermediates*, 40, pages555–567 (2014) DOI: 10.1007/s11164-012-0982-2 Dec. 2012. (IF 2.91)
25. Squamocin, an annonaceous acetogenin, enhances naphthalene degradation mediated by *Bacillus atrophaeus* CN4. (IF 1.85)
    Eduardo A. Parelladaa, Mercedes Igarzaa, Paula Isaccb, Alicia Bardón, Marcela Ferrero, K.L. Ameta, Adriana Neske. *Rev Argent Microbiol.*49 (3) 282-288. Elsevier, *2017*
26. Montmorrilonite K10 catalyzed efficient synthesis of some 4'-nitrochalcones and their 1, 3, 5-triaryl-2-pyrazolines and in vitro antimicrobial evaluation.
    K. L. Ameta, Nitu S. Rathore, Maya Kumari, Priyanka Khyaliya, R. R. Dangi, Eduardo A Parellada and Adriana Neske, Vol. 8(3) *IranJoC,* 2016, 1833-1844.
27. Synthesis and *in vitro* Anti breast Cancer Activity of some novel 1, 5-benzothiazepine derivatives.
    K. L. Ameta, Nitu S. Rathore and Biresh Kumar. *J. Serb. Chem. Soc. 77 (6) 725–731 (2012)*, doi:10.2298/JSC110715219A. (IF 1.24)
28. Facile synthesis of some novel 2-substituted-4,6-diarylpyrimidines using 4'-hydroxy-3',5'-dinitrochalcones and S-benzylthiouronium chloride.
    K. L. Ameta, Kumar B, Rathore N. S., Verma B. L. *Org. Commun*. 2012; 5:1: 1-11. (IF 0.68)
29. ZnO catalyzed efficient synthesis of some new 2-substituted-4, 6-diarylpyrimidines.
    K. L. Ameta, B. Kumar and N. S. Rathore, *ISRN Organic Chemistry*, vol. 2012, Article ID 242569, 6 pages, 2012. doi:10.5402/2012/242569.
30. Synthesis of Some Novel Fused Substituted 3-(4-substitutedphenyl)-6,6-diphenyl-3,3a dihydroimidazo[2',1':2,3][1,3] thiazolo[4,5-*c*][1,2] isoxazoles.
    R. R. Dangi, Maya Kumari, Priyanka Khyaliya, Eduardo A Parellada and Adriana Neske and K. L. Ameta. *IranJoC* Vol.8 (4), 2016, 1887-1893.
31. Use of pure and N, S-codoped bimetallic cerium cadmium oxide nanoparticles as photocatalyst for the photodegradation of Fast green. Jyoti Sharma and K. L. Ameta. *Orient. J. Chem.*, 33(4), P. 2016-2022, 2017. http://dx.doi.org/10.13005/ojc/330449.

32. N-S Codoped Cerium -Cobalt Oxide Bimetal Nanoparticles Catalyzed Photodegradation of Brilliant Green and Fast Green. Jyoti Sharma and K. L. Ameta. *Asian Journal of Chemistry*, 29(11) June 2017. https://doi.org/10.14233/ajchem.2017.20778
33. Synthesis and preliminary evaluation of novel 1, 5-benzothiazepine derivatives as anti-lung cancer agents.
    K. L. Ameta, B. Kumar and N. S. Rathore. Int J Pharm, Vol 3(2), 2013,328 -333.
34. Synthesis, Characterization, and Use of Novel Bimetal Oxide Catalyst for Photoassisted Degradation of Malachite Green Dye.
    K. L. Ameta, Neema Papnai, and Rakshit Ameta, *Journal of Materials*, (Hindawi) vol. 2014, Article ID 480107, 5 pages, 2014. doi:10.1155/2014/480107
35. Sol-Gel Synthesis of Nanoparticles of *N,S*-codoped Titanium dioxide and its use for photocatalytic degradation of Trypane Blue.
    Ajay S Sisodiya, Dipti Soni, Rakshit Ameta and K. L. Ameta. *Chem Sci Trans*. 4(2), 2015, DOI:10.7598/cst2015.1027.
36. Natural and Derivatized Acetogenins Promising for the Control of Spodoptera frugiperda Smith. Ruiz Hidalgo, J., Parellada, E.A., Di Toto Blessing, L., Bardón, A., Ameta, K.L.,

Vera, N. and Neske, A. (2016) *Journal of Agricultural Chemistry and Environment* , 5, 200-210.

37. Cerium-Iron Oxide Catalyzed Photodegradation of Brilliant Blue G.
    K. L. Ameta and Neema Papnai, *Chem Sci Trans*. 3(3), 2014, DOI:10.7598/cst2014.841.
38. Photocatalytic Degradation of Malachite Green Using Nano-sized cerium-iron Oxide.
    K. L. Ameta, Neema Papnai and Rakshit Ameta. *Orbital,* 6(1) 2014.
39. Photocatalytic degradation of Erythrosine using Nanoparticles of N, S-codoped titanium dioxide. Ajay Singh Sisodiya, Paras Tak, Rakshit Ameta and K. L. Ameta. *Sci. Revs. Chem. Commun.: 5(1), 2015, 43-50, ISSN 2277-2669*.
40. Use of lead chromate for photocatalytic degradation of methylene blue. *J. Curr. Chem. Pharm. Sc.: 4(2),* 2014, 65-72, ISSN 2277-2871. Kavita Ameta, Anugya Porwala, K. L. Ameta and Suresh C. Ameta.

41. Synthesis and trypanocidal evaluation of some novel 2-(substituted benzylidene)-5, 7-dibromo-6-hydroxy-1-benzofuran-3(2*H*)-ones.K. L. Ameta, Nitu S. Rathore, Biresh Kumar, Edith S. Malaga M, Manuela Verastegui P, Robert H. Gilman and B. L. Verma. *IJOC*, 2012, 295-301. Doi: 10.4236/ijoc.2012.223040.
42. Synthesis of some novel 3-[ω–(substituted phenoxy /aniline / thiophenoxy / 2-pyridylamino) alkoxy] flavones.
    K. L. Ameta, R. S. Sodani, R. B. Bhandari and B. L. Verma. *Orbital,* 2012; 4 (2), 45-53.
43. Microwave induced improved synthesis of some novel substituted 1, 3-diarylpropenones and their antimicrobial activity. (IF 2.5)
    K. L Ameta, Nitu S. Rathore and Biresh Kumar. *Ejchem.* vol. 8(2), 2011. 665-670, Hindawi.
44. Use of semiconducting manganese (IV) oxide particulate system as a photocatalyst: Photoassisted bleaching of some dyes. (IF 0.2)
    K. L. Ameta, R. K. Malkani and Suresh C. Ameta. *Int. J. Chem. Sci. 8(3), 2010, 1658-1668.*
45. Photochemical degradation of Neutral Red using potassium trioxalato ferrate (III) as an oxidant. (IF 0.2)
    Yuvraj Jhala, Anil K Chittora, K. L. Ameta, Pinki B. Punjabi. *Int. J. Chem. Sci. 8 (3) 2010.* 1389-1401.
46. A Facile one-pot microwave assisted conversion of 3',5'-dibromo/diiodo-4'-hydroxy substituted chalcones to pyrimidines using S-benzylisothiouronium chloride (SBT) and their antibacterial activities. (IF 0.25)
    U. S. Gahlot, S. S. Rao, S. S. Dulawat, K.L. Ameta, and B.L. Verma, *Afinidad J.(Spain),* PublishedVol.60,N.508, Nov.-Dec., 2003.
47. Microwave-induced improved synthesis and antibacterial activities of some chalcones and their 1-acyl-3,5-diaryl-2-pyrazolines. (IF 0.25)
    Rao, S.S., Gahlot, U.S., Dulawat, S.S., Vyas, R., Ameta, K.L., Verma, B.L. 2003 *Afinidad* 60 (505), pp. 271-276.
48. Synthesis of some 3-N Substituted Amino Flavones.
    Y. K. Srivastava, K.L. Ameta and B. L. Verma. Indian *J. Heterocyclic Chemistry,* 2002. 11, 279-282. (IF 0.2)
49. Microwave induced acetylation of some primary aromatic amines using acetic acid. (IF 0.2)
    K.L. Ameta and B. L. Verma. *J. Indian Chem. Soc.,* 2002, 79, 840
50. Synthesis of some novel chalcones and their facile one-pot conversion to 2-aminobenzene-1, 3-dicarbonitriles using malononitrile.
    K. L. Ameta, Biresh Kumar and Nitu S. Rathore. *Analele Universitatii Bucuresti. Chimie*, vol. 20 (1), 2011, 15-24.

51. 3',5'-Dibromo-2',4'-dihydroxy Substituted Chalcones: Synthesis and in vitro Trypanocidal Evaluation.
    K. L. Ameta, N. S. Rathore, B. Kumar, ES Malaga M, M. Verastegui, R. H. Gilman and B. L. Verma. *Organic Chem Curr Re.,* 1:107. doi:10.4172/2161-0401.1000107 (2012)
52. CsF/[bmim][BF4]/Silica: An Efficient System for Michael Reactions.
    S. S. Ardhapure, P. S. Shinde, S. S. Shinde, M. V. Katariya, R. D. Ingle, S. K. Vyawahare, K. L. Ameta and R. P. Pawar, *International Journal of Chemtech Applications,* 1(1), 60-63, 2012.
53. Synthesis and Antimicrobial study of Novel Schiff Bases and Metal Complexes.
    D. U. Thombal, S. R. Mirgane, R. U. Ambhure, R. P. Pawar and K. L. Ameta
    Biochemistry and Biophysics (BAB), Volume 3, 2017
54. $Fe_{0.2}Al_{1.8}Zn_1O_4$ Composite: An Efficient Catalyst for the Synthesis of 1, 4-Dihydropyridine Derivatives.
    V. K. M. Joshi, S. U. Tekale, S. Kauthale, S K. Vyawahare, A. M. Zine, S B. Shinde, K. L. Ameta and R. P. Pawar. Americal Chemical Science Journal, 4(4), 2014, 416-423.

Book Chapters

55. Aziridines: Synthesis and bioactivity in "Bioactive heterocycles: Synthesis and Biological Evaluation " V. K. Paike, S. S. Kauthale, R. C. Kumar, M. V. Katariya, R. P. More, K L. Ameta and S. P. Mane. Nova Science Publisher, 2013, ISBN: 978-1-62257-636-4 p.41-68.
56. Microwave assisted organic synthesis: A need of the day in Green Chemistry: Fundamentals and applications, C. Ameta, K. L. Ameta, B. K. Sharma and R. Ameta, ISBN: 13: 978-1-926895-43-7, Apple Academic Press Inc., Canada and USA , pp.283-316
57. Cycloaddition In: Microwave-Assisted Organic Synthesis: A Green Chemical Approach. Jain, A.; Ameta, K. L.; Punjabi, P. B. and Ameta, S. C. (2014). Publisher: Apple Academic Press, CRC, ISBN 9781771880398.
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78. An Overview on Synthesis of Pyrroline, Indolizine and Quinolizinium Derivatives by Using Different Nanocatalysts. Rohini N. Shelke, Anant B. Kanagare, Satish U. Deshmukh, Saroj R. Bembalkar, Dattatraya N. Pansare , K. L. Ameta and Rajendra P. Pawar. In

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81. Synthesis of Quinolines, Isoquinolines, and Quinolones Using Various Nanocatalysts. Chetna Ameta, Yogeshwari Vyas, Purnima Chaubisa, Dharmendra and K. L. Ameta. In Nanocatalysis: Synthesis of Bioactive Heterocycles, Publisher: Taylor and Francis, ISBN 9780367693541.
82. Recent Advancements in Nanocatalyzed Synthesis of Triazoles and Tetrazoles and their and Biological Studies. Popat M. Jadhav, Anant B. Kangare, Anand B. Dhirbassi, Atam B. Tekale, Ravikumar M. Borade, Sunil U. Tekale, K. L. Ameta, Rajendra P. Pawar. In Nanocatalysis: Synthesis of Bioactive Heterocycles, Publisher: Taylor and Francis, ISBN 9780367693541.
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85. Pyrazoles, Indazoles and Pyrazolines : Recent Developments and their Properties. Shyam L. Gupta , Surendra Saini, Pratibha Saini, Anshu Dandia, K. L. Ameta, Vijay Parewa. In N-Heterocycles - Synthesis and Biological Evaluation, Publisher: Springer. ISBN 9789811908316

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86. Chalconas sinteticas con acción insecticida sobre spodoptera Frugiperda. José Ruiz Hidalgo, Melina Santillán, Alicia Bardóna, Eduardo Alberto Parellada, **K L Ameta**, y Adriana Neske. Published in XXXI Congreso Argentino de Química, 25 al 28 de Octubre de 2016 Asociación Química Argentina, Sánchez de Bustamante 1749 – Ciudad de Buenos Aires – Argentina. The Journal of The Argentine Chemical Society Vol. 103 (1-2) January – December 2016 ISSN: 1852 -1207,Anales de la Asociación Química Argentina AAQAE 095 – 196

Article Published in Magazines:

87. Know your medicine: Paracetamol, *Dream 2047,* September 2020 / Vol. 22 / No. 12.p-14-15. Published by Vigyan Prasar, DST, India.
88. पर्यावरण हितैषी एलईडी विकिरणों की उपस्तिथि में बिस्मथ ऑक्साइड (Bi2O3) के उपयोग द्वारा मेथिलीन निल रंजक का विघटन, विज्ञानं गरिमा सिंधु , रसायन विज्ञान विशेषांक, अंक ११६, जनवरी -मार्च २०२२, पेज ६८-७३, IISN No. 23207736, UGC-CARE

Invited Talks/ Chaired Session

1. Delivered invited talk on "Good Laboratory Practices (GLPs): A Brief Introduction" in Virtual National Seminar on “Recent Trends in Chemical Technology- A Safety

Perspective held on 24th December 2021, Organized by Department of Industrial Chemistry, ISTAR,CVM University, Vallabh Vidyanagar & GUJCOST.

2. Delivered invited talk on "Sustainability in the synthesis of N- Heterocycles" at 15th International Conference on Multi-functional Materials and Applications (ICMMA 2021), Held on November 25-26th, 2021, Organized by Nakhon Si Thammarat Rajabhat University, Thailand.
3. Chaired session in the 15th International Conference on Multi-functional Materials and Applications (ICMMA 2021), held on November 25-26th, 2021, Organized by Nakhon Si Thammarat Rajabhat University, Thailand.
4. Chaired session in 11th International Conference on Multi-functional Materials and Applications (ICMMA 2020), held on November 26-27th, 2020, Organized by Sun Moon University, Korea.
5. Delivered invited talk on "Synthesis of Bioactive Heterocycles Using Nanocatalytic Framework" at 11th International Conference on Multi-functional Materials and Applications (ICMMA 2020), Held on November 26-27th, 2020, Organized by Sun Moon University, Korea.
6. Delivered invited talk on "Applications of nanocatalysis in organic synthesis" at International Conference on Recent Trends in Environment and Natural Sciences – ICRTENS – 2019, Organized by Govt Science College Sikar, Rajasthan. 12-13 February, 2019.
7. Delivered invited lecture entitled "Synthesis of potentially bioactive heterocycles via sustainable chemistry" at OCSD-2016: Organic Chemistry in Sustainable Development: Recent Advances and Future Challenges at Department of Chemistry, BITS Pilani, Rajasthan. (August 29-30, 2016)
8. Delivered invited lecture at International conference FCASI- Frontiers at the Chemistry - Allied Sciences Interface on "Heterogeneous catalyzed synthesis of chalcone derived bioactive heterocycles" at CAS, Department of Chemistry, UOR, Jaipur. (April 25-26, 2016)
9. Delivered invited lecture on "Chalcones and their derived bioactive heterocycles: The versatile phamacophores" at Facultad de Bioquímica, Química y Farmacia de la Universidad Nacional de Tucumán, Argentina (16th October 2015)
10. Delivered invited talk on "Nanocatalysis" during the refresher course in Chemistry as resource person at Academic Staff College, University of Rajasthan, Jaipur. (February 12th 2014: 27/1/2014 to 15/2/2014)
11. Delivered invited lecture on "Chalcones: The versatile synthons for the synthesis of bioactive heterocycles" at Department of Chemistry, Faculty of Science, Khon Kaen University, Khon Kaen, Thailand. (July 11, 2013)

Professional Affiliations

- Life Member of Indian Chemical Society
- Fellow Linnean Society, London
- Member- Royal Society of Chemistry
- Member- American Chemical Society
- Peer Reviewer of Letter in Organic Chemistry.
- Peer Reviewer of J. Photochem Photobiol.
- Peer Reviewer of Chemical Science Transactions

Date: 12 May 2022
SPU, VVN