

Name of Faculty Dr .K. RAMESH  
 Designation Assistant Professor & HoD  
 Nature of Job/Appointment Regular

Date of Joining 05 - 07 - 2007



E-mail kramesh\_chm@cbit.ac.in

Education Qualifications	Name of the Degree	Class
Ph. D	Doctor of Philosophy (Chemistry)	Awarded
PG	M.Sc.(Physical Chemistry)	First
UG	B. Sc (M.P.C)	Second

Work Experience	
Teaching	21 Years (Includes research experience)
Research	08 Years
Industry	--
Others	--

Area of Specialization	
Professional Memberships	<ol style="list-style-type: none"> <li>1. Life Member, Indian Science Congress (ISC) L34636.</li> <li>2. Community Member, American Chemical Society (ACS) 32372804.</li> <li>3. Royal Society of Chemistry Affiliate member (RSC) 715063</li> <li>1. Head of the Department from 01-03-2023 to till date</li> <li>2. Co-in-Charge, Academic and Examinations Cell (from 14.03.2022 to 14.03.2023).</li> <li>1. Chairman Board of Studies from 01-03-2023 to till date</li> <li>2. Member - Board of Studies from 2013 to 2023.</li> <li>3. NAAC- Departmental coordinator from 2012 to 2021</li> <li>4. News letter - Departmental coordinator from 2010 to till date</li> <li>5. Website - Departmental coordinator from 2012 to 2023</li> <li>6. Member- Disciplinary committee.</li> <li>7. Mentor for Induction program to the 1<sup>st</sup> Year Students</li> <li>8. Class In-charge/Teacher.</li> </ol>
Responsibilities held at Institution Level	--
Responsibilities held at Department Level	<ol style="list-style-type: none"> <li>1. Received the Best Faculty Award for Research Contribution in Science and Technology by Nature Science Foundation, Coimbatore, Tamilnadu, Approved and Registered by the Ministry of MSME, Govt. of India.</li> <li>2. Received the Best Researcher Award (for Contribution and Honourable Achievement in Innovative Research), 6th Edition of International Young Scientist Awards by Scifax (Young Scientist Awards is a trademark of Scifax company (Reg. No. 130116), Approved and Registered by Ministry of Corporate Affairs (MCA), Govt. of India).</li> <li>3. Received the Best Teacher Award for Teaching-Learning by Chaitanya Bharathi Institute of Technology (A), Hyderabad on the occasion of the teachers day celebration on 05-09-2022</li> </ol>
Research Guidance	<ol style="list-style-type: none"> <li>Engineering Chemistry, Applied chemistry and Physical chemistry.</li> </ol>

Courses Handled at Under Graduate / Post Graduate Level.	National Journals –01	International Journals – 42
No. of Papers Published	National Conference – 01	International Conference – 02
Projects Carried out		
Patents		
Technology Transfer		
Invited Speaker		



1. Book Title: "Engineering Chemistry" 2024, SciTech Publication Pvt.Ltd, Chennai, India-600059, ISBN: 978-93-92399-96-1. Authors: Dr. Kishor Palle, Dr.V. Shanthi, Dr. S. Naga Gayatri, Dr. K. Ramesh
2. Book Title: "Essentials of Nano Technology", 2022, Scientific International Publishing House (SIPH), 32B, Mazhuppan Street, Mannargudi, Tamilnadu, India- 614001, ISBN: 978-93-5625-476-3. Authors: Dr. Ramesh kola, Mrs. Jenifer Robinson, Dr. Sujith Tewari, Dr. Vivekananda B. Jadhav.
3. Book Title: "Engineering Chemistry", 2022, SciTech Publication Pvt.Ltd, Chennai, India-600059, ISBN: 978-93-85983-98-6. Authors: Dr. Kishor Palle, Dr.V. Shanthi, Dr. A. Kishore Kumar, Dr. K. Ramesh.
4. Dr. Jagadeesh Kumar Ega, Dr. Kumara Swamy Jella, Dr. Ramesh Kola, published a book titled "Concise Physical Chemistry (Volume - II)", 2021, Integrated Publication, Delhi, India-110085 ISBN: 978-93-90471-29-4.
5. Dr. Jagadeesh Kumar Ega, Dr. Kumara Swamy Jella, Dr. Ramesh Kola, Dr. Satheesh Bolloju, published a book titled "Concise Physical Chemistry (Volume - I)", 2021, Integrated Publication, Delhi, India-110085 ISBN: 978-93-90471-21-8.
6. Book Titled "A TO Z Organic Named Reactions", 2021, Integrated Publication, Delhi, India-110085 ISBN: 978-93-90471-61-4. Authors: Dr.K. Ramesh, Dr. Jagadeesh Kumar Ega, Dr. S. Kavitha.
7. Book Title: Carbohydrate Polymer Nanotechnologies Chapter Title: Advances in Carbohydrate Polymer Based Nanocomposites for Photocatalytic Application. Authors: T. V. Surendra, Ramesh Kola, B. Srinivas, Chandra Sekhar Espenti, S. Eswaramma & M. Velayutham Pillai Chapter 25, pp 325–353, 26 July 2025, Print ISBN: 978-981-9621-70-5. Electronic ISBN: 978-981-9621-71-2 (Springer Publishers).
8. Book Title: Real-World Challenges in Quantum Electronics and Machine Computing. Chapter Title: Ch-25-Towards Green Chemistry Quantum Computing Applications in Chemical Synthesis. Authors: N. Srivani, Vinay Chandra A, Kola Ramesh, Y. B. Kumar Chapter 25, pp 380-391, July 2024, ISBN13: 9798369340011|ISBN13Softcover: 9798369350447(IGI Global Publishers).
9. Book Title: Nanotechnology-Based Additive Manufacturing, Chapter Title: Nanomaterials and Nanostructures in Additive Manufacturing: Properties, Applications, and Technological Challenges. Authors: D. Saritha\* Sathish K. Kurapati, N. Mahendar Reddy, R. Sujithra, Ramesh Kola, Gubbala V. Ramesh Chapter 3, pp 53-102, December 23, 2022, Print ISBN:9783527349845 |Online ISBN:9783527835478 (Wiley Publishers).
10. Book Title: Advanced Nanomaterials for Point of Care Diagnosis and Therapy, Chapter Title: Carbon nanomaterials: Application as sensors for diagnostics. Authors: Naveen K. Dandu, Ch. G. Chandaluri, Kola Ramesh, D. Saritha, N. Mahender Reddy, Gubbala V. Ramesh. Elsevier, 2022, Chapter 11, pp 211-248, ISBN 9780323857253, <https://doi.org/10.1016/B978-0-323-85725-3.00015-5>.
11. Book Title: 2D Functional Nanomaterials: Synthesis, Characterization and Applications, Chapter Title: 2D Nanomaterials for Photocatalysis and hot electrocatalysis. Authors: Gubbala V. Ramesh, \* N. Mahendar Reddy, Muwa D. Prasad, D. Saritha, Kola Ramesh. Wiley-VCH, Weinheim, Chapter 22, pp 383-411, 2021, ISBN: 9783527823949, 3527823948.

#### **Faculty Development Programs Attended**

1. Participated & completed successfully 8-Day (Online) "NEP 2020 Orientation & Sensitization Programme" Malaviya Mission Teacher Training Programme of University Grants

No. of Books/Chapter Published with details

Details of Short-Term Training Programs/Faculty Development Programs/Seminars/Workshops/Other Trainings (Attended and/or

Organized).



Commission organized by Malaviya Mission Teacher Training Centre, National Institute of Technology Warangal from 21-11-2025 to 29-11-2025.

2. Participated & completed successfully NPTEL-AICTE 12 weeks Faculty Development Programme on "Physico-chemical processes for wastewater treatment, Organized by IIT Roorkee, from January to April-2024.
3. Participated & completed successfully NPTEL-AICTE 12 weeks Faculty Development Programme on "Air Pollution and Control, Organized by IIT Roorkee, held from January to April-2024.
4. Participated in the AICTE Recognized Faculty Development Programme on "Enhancing Research Capabilities for Academic Career Progression" Organized by NITTTR, Chandigarh, Entrepreneurship Development and Industrial Coordination Department from 17/03/2025 to 21/03/2025 (One Week) at Chaitanya Bharathi Institute of Technology, Hyderabad, Telangana
5. Participated in the AICTE Recognized Faculty Development Programme on "Sustainable Development Goals - Interventions and Schemes of Govt. of India" Organized by NITTTR, Chandigarh, Electrical Engineering Department from 17/02/2025 to 21/02/2025 (One Week) at Chaitanya Bharathi Institute of Technology, Hyderabad, Telangana
6. Participated in the AICTE Recognized Faculty Development Programme on "ICT Tools for Smart Educators" Organized by NITTTR, Chandigarh, Computer Science and Engineering Department from 27/01/2025 to 31/01/2025 (One Week) at Chaitanya Bharathi Institute of Technology, Hyderabad, Telangana
7. participated One-Week Workshop on "Recent Advances in Design, Manufacturing & Testing of Composites" organized by Department of Mechanical Engineering, Chaitanya Bharathi Institute of Technology(A) in collaboration with Advanced Systems Laboratory(ASL), DRDO, and Indian Society for Advancement of Materials and Process Engineering (ISAMPE), Hyderabad Chapter held from 06-01-2025 to 11-01-2025.
8. Participated & completed successfully One week Faculty Development Programme on "Quality Education through OBE" organized by Chaitanya Bharathi Institute of Technology(Autonomous), Gandipet, Hyderabad- 500 075, Telangana, India., in association with IEEE Education Society Student Branch Chapter CBIT during 22-01-2024 to 27-01-2024.
9. Participated & completed successfully Faculty Development Programme on "Effective Curriculum Implementation Using FOSS" Organized by NITTTR, Chandigarh, Curriculum Development Centre Department during 08-01-2024 to 12-01-2024 at Mahatma Gandhi Institute Of Technology, Hyderabad.
10. Participated & completed successfully Faculty Development Program on "Recent Advancement In Smart Materials For Sustainable Energy Applications" organized by the Centre For Nanoscience And Nanotechnology, International Research Centre, Sathya Bama Institute of Science and Technology, India, during 20-11-2023 to 25-11-2023.
11. Participated & completed successfully Faculty Development Program on "Pharmaceutical Innovations & Protection Strategies" Jointly organized by Seven Hills College of Pharmacy (Autonomous), Tirupati – 517561, A.P., India & CSIR – Institute of Minerals & Materials Technology, Bhubaneswar, India, during 18-07-2023 to 22-07-2023.
12. Participated & completed successfully One Week National e-Workshop on 'Innovation & Intellectual Property Rights' organized by Innovative Technology Enabling Center - INTEC, CSIR-Institute of Minerals and Material Technology (IMMT), Bhubaneswar during 24-06-2024 to 29-06-2024.
13. Participated & completed successfully NPTEL-AICTE 12 weeks Faculty Development Programme on " Industrial Inorganic Chemistry " funded by ministry of HRD, Govt of India, from January to April-2023.



14. Participated & completed successfully NPTEL-AICTE 12 weeks Faculty Development Programme on "Characterization of Polymers, Elastomers and Composites " funded by ministry of HRD, Govt of India, from January to April-2023.
15. Participated & successfully completed "International Advanced Faculty Development Program on Mechanics of Qualitative and Quantitative Research Design" Organized by: Eudoxia Research Centre and Eudoxia Research University - USA, during 16-06-2023 to 23-06-2023.
16. Participated & successfully completed International Advanced Faculty Development Program on "Mechanics of Manuscript Drafting and Publication Process (FDP-MMDP 2023)" Organized by Eudoxia Research Centre and Eudoxia Research University - USA, during 05-06-2023 to 12-06-2023.
17. Dr.K.Ramesh, Participated in the AICTE Recognized one week FDP on "Raspberry Pi and its Interfacing" Organized by Electrical Engineering Department, NITTTR, Kolkata, during 27-02-2023 to 03-03-2023, at Chaitanya Bharathi Institute of Technology, Hyderabad, Telangana.
18. Dr.K.Ramesh, Participated in the online AICTE Recognized one week FDP on "Fundamentals of Technology Enabled Learning" Organized by NITTTR, Kolkata, during 20-02-2023 to 24-02-2023.
19. Participated in the AICTE Recognized Short Term Course on "2D Nanomaterials: Potential & Applications" through ICT, at Chaitanya Bharathi Institute of Technology, Hyderabad (Telangana) from 17/10/2022 to 21/10/2022 (One Week) Organized by Applied Science Department, NITTTR, Chandigarh.
20. Participated in the Short Term Course on "RECENT ADVANCES IN CHEMICAL SCIENCES" Organized by the Department of Chemistry, SNIST, Hyderabad in association with CCE, NIT Warangal, from 10/10/2022 to 14/10/2022.
21. Participated in One Week National Online Faculty Development Programme on "ICT Tools for Effective Teaching and Learning FDP ICT-2022" Organized by Kamla Nehru Mahavidyalaya, Nagpur, from 23/05/2022 to 28/05/2022.
22. Participated in International Faculty Development Programme on "Combating the Global Pandemic Through Motivation Using Life Skills" organized by Guru Shree Shantivijai Jain College for Women - FDP Board on 4th April 2022.
23. Participated in UGC-STRIDE Sponsored one-week National Level Faculty Development Programme on "Carbon Capture and Storage" organized by the Department of Chemistry, Central University of Tamil Nadu, Thiruvarur, India, from 21-02-2022 to 25-02-2022.
24. Participated in the National Level Faculty Development Programme on "Developing Statistical Skills for Enhancing Research" under Rashtriya Uchchatar Shiksha Abhiyan (RUSA), jointly organized by Centre for Skill Development (CSD) and Teaching Learning Resource Centre (TLRC), Symbiosis College of Arts & Commerce, Pune, India, during 27-01-2022 to 03-02-2022.
25. Participated in International Faculty Development Programme on " Emerging Trends in Nano Technology (ETNT-2021)" Organized by the Department of Basic Science, Vishnu Institute of Technology (A), Bhimavaram, in association with Geosciences division, Physical Research Laboratory (PRL), Ahmadabad, during 09-11-2021 to 13-11-2021.
26. Participated in Faculty Development Programme on " Role of Chemistry in Advanced Engineering Materials -2021" (RCAEM-2021)" Organized by Department of Chemistry, Vasavi College of Engineering(A), Hyderabad, during 25-10-2021 to 29-10-2021.
27. Participated in One week online Faculty Development Program on "Applied Chemistry to Design Smart Materials for Device Applications" Organized by Department of Freshman Engineering, Geethanjali College of Engineering & Technology, Hyderabad, during 20-09-2021 to 24-09-2021.
28. Participated in One week online Faculty Development



Program on "Changing Dimensions of IPR in India – An Intellectual Deliberation" Organized by IQAC of Jain College, Bengaluru in collaboration with KSCST, during 12-08-2021 to 17-08-2021.

- 29. Participated in international webinar on "Introduction to Scientific Article Structuring" organized by Journal Club, Telangana Social Welfare Residential Degree College for Women, Suryapet, held on 11-08-2021.
- 30. Participated in One week online Faculty Development Program on "Recent Research Advances Materials: Water and Waste Water Treatment" Organized by Bharat Institute of Engineering and Technology & and Indian Ceramic Society, Hyderabad, during 02-08-2021 to 07-08-2021.
- 31. Participated in the seminar RSC-IISER Desktop Seminar with ChemComm held on 06-08-2021, Organized by RSC Publishing webinar, Royal Society of Chemistry.
- 32. successfully completed Online National Level Short Training Program (STTP) on "Outcomes-Based Teaching, Assessments and Evaluation" Jointly organized by NBN Sinhagad School of Engineering, Pune and Impods Inc., USA from 02-08-2021 to 04-08-2021.
- 33. Participated in the online AICTE Recognized one week FDP on "Nanomaterials and Thin Films" Organized by Applied Science Department, NITTTR, Chandigarh, during 26-07-2021 to 30-07-2021.
- 34. Participated in the C&EN's webinar on " Synthetic Carbon Adsorbents for challenging separations & purifications" held on 20-07-2021, Organized by Mac-Mod Analytical, American Chemical Society, 1155 Sixteenth Street NW | Washington, DC 20036.
- 35. Participated in Two days International Conference on "Recent Advances in Chemical, Physical and Biological Sciences", Organized by Department of Chemistry, Nabira Mahavidyalaya, Katol and Association of Chemistry Teacher, Mumbai, India during 29-06-2021 to 30-06-2021.
- 36. Participated in the ACS Publications Symposium on "Innovation in Measurement Science" Organized by American Chemical Society in partnership with the ACS division of Analytical Chemistry, 1155 Sixteenth Street NW | Washington, DC 20036, during 22-06-2021 to 25-06-2021.
- 37. Participated in the International Workshop on "Stress & Coping: Strategies to De-Stress" Organized by Women Empowerment Cell, GITAM (Deemed to be University), Visakhapatnam, AP, India during 12-06-2021 to 13-06-2021.
- 38. Participated in One-week Faculty Development Programme on "Research Methodology in Humanities & Social Sciences" Organized by Department of Chemistry, Lords Institute of Engineering and Technology, Hyderabad., during 29/05/2021 to 03/06/2021.
- 39. successfully completed 2 weeks online Patent Information Course, Organized by Turnip Innovations and facilitated by Dr Rahul Kapoor, Mumbai, India during 10/05/2021 to 24/05/2021.
- 40. Participated in National Level One-week Faculty Development Programme on Research Methodology In Humanities & Social Sciences" Organized by Department of Chemistry Amar Sewa Mandal's Kamla Nehru Mahavidyalaya, Nagpur, during 26/04/2021 to 01/05/2021.
- 41. Participated in Three-day International Conference on Advanced Materials Behavior & Characterization, organized by Mattest Research Academy, Chennai, Tamil Nadu, India



during 24-04-2021 to 26-04-2021.

- 42. Participated in National Level One-week Faculty Development Programme on Research Methodology In Humanities & Social Sciences" Organized by Department of Chemistry Amar Sewa Mandal's Kamla Nehru Mahavidyalaya, Nagpur, during 26/04/2021 to 01/05/2021.
- 43. Participated in the International eWorkshop on Science and Technology of Emerging Materials (eSTEM – 21) – Virutal Mode Organized by the Department of Science and Humanities, Chettinad College of Engineering & Technology, Tamilnadu, India, during 19-04-2021 to 21-04-2021.
- 44. Participated in Two-day International E-Conference on Advances in Chemical Research 2021 organized by Department of Chemistry, Institute of Science, GITAM (Deemed to be University), Visakhapatnam, AP, India, during 19-04-2021 to 20-04-2021.
- 45. Participated in Three-day International Workshop on "Energy Storage Technologies for E-Mobility (IWESTE-2021)" Organized by department of Chemistry, SRMIST, India, during 25-03-2021 to 27-03-2021.
- 46. Participated in One-week online Faculty Development Program on "Recent Trends in Advanced Materials Science and Engineering Technology (RTAMSET-21)" Organized by Department of Chemistry, Chaitanya Bharathi Institute of Technology (A), Hyderabad-500075, during 08/03/2021 to 12/03/2021.
- 47. Participated in International webinar on "Innovations in Science & Technology (IWIST-2021)" held on 27-02-2021, jointly organized by Department of Chemistry, Smt.Narsamma Arts, Commerce & Science College, Amravati & Association of Chemistry Teachers (ACT) Mumbai.
- 48. Participated & completed successfully AICTE Training and Learning (ATAL) Academy Online FDP on " "Quantum Computing"" at Chaitanya Bharathi Institute of Technology, Hyderabad, during 18/01/2021 to 22/01/2021.
- 49. Participated & completed successfully NPTEL-AICTE 12 weeks Faculty Development Programme on " Co-Ordination Chemistry " funded by ministry of HRD, Govt of India, during September to December-2020.
- 50. Participated & completed successfully AICTE Training and Learning (ATAL) Academy Online FDP on "Molecular Manufacturing" at Chaitanya Bharathi Institute of Technology, Hyderabad, during 19/10/2020 to 23/10/2020.
- 51. Participated First International Virtual Conference on Nanomaterials (FIVCON-2020), organized by Department of Nanotechnology, Acharya Nagarjuna University, Guntur, AP., India, during 10-09-2020 to 12-09-2020.
- 52. Participated in the webinar on "Literacy in New Education Policy 2020" held on 08-09-2020, jointly organized by NITTTR Chandigarh and NIT Kurukshetra.
- 53. Participated & completed successfully AICTE Training and Learning (ATAL) Academy Online FDP on "Alternate Fuels" at Engineering College Bikaner. during 01/09/2020 to 05/09/2020.
- 54. Participated in One week online Faculty Development Program on "Student Induction and Universal Human Values" Organized by Department of Physics, Chaitanya Bharathi Institute of Technology (A), Hyderabad-500075, during 26/08/2020 to 30/08/2020.
- 55. Participated in One week online Faculty Development Program on "Recent Trends in Material Science and Technology" Organized by Department of Physics, Hyderabad



Institute of Technology and Management, Hyderabad, during 25/08/2020 to 29/08/2020.

- 56. Participated in One week online Faculty Development Program on "Engineering Physics and Materials Science" Organized by Department of Physics, Chaitanya Bharathi Institute of Technology (A), Hyderabad-500075, during 03/08/2020 to 07/08/2020.
- 57. Participated a Five days International Conference on "Advanced Materials Behavior & Characterization" (ICAMBC\_2020) organized by Mattest Research Academy, Chennai, during 18-07-2020 to 23-07-2020.
- 58. One week online Faculty Development Program on "Materials Processing and Optimization" Organized by Mechanical Engineering Department, NITTTR, Chandigarh, during 06-07-2020- 10-07-2020.
- 59. Participated in the Five days webinar series on "Advances in Materials Science and Technology (WSAMST-2020)", held on 22-06-2020 to 26-06-2020 organized by Department of Applied Sciences and Humanities (Physics), School of Engineering, University of Petroleum and Energy Studies, Dehradun.
- 60. One week online Faculty Development Program on "Advanced Materials for Energy Harvesting, Conversion and Storage" Organized by Department of Science and Humanities, MLR Institute of Technology, Hyderabad, during 19-06-2020 to 23-06-2020.
- 61. One week online Faculty Development Program on "Advanced Materials Research" Organized by Bharat Institute of Engineering and Technology in collaboration with Indian Ceramic Society, Hyderabad, during 15-06-2020 to 19-06-2020.
- 62. One week online Faculty Development Program on "Effective Online Teaching Methods" Organized by Department of Civil Engineering, Dr.N.G.P IT, Coimbatore, during 08-06-2020 to 14-06-2020.
- 63. One week online Faculty Development Program on "Technology towards Common Man" Organized by Sri Manakula Vinayagar Engineering College Puducherry, during 10-06-2020 to 13-06-2020.
- 64. One week online Faculty Development Program on "Materials: Recent Trends & Engineering Applications" Organized by the Department of H&S, Gokaraju Rangaraju Institute of Engineering and Technology, Hyderabad, during 02-06-2020 to 07-06-2020.
- 65. Successfully Completed " Nanotechnology: A Maker's " an online non-credit course authorized by Duke University and The University of North Carolina at Chapel Hill and offered through Coursera on 05-06-2020.
- 66. Successfully Completed "Organic Solar Cells - Theory and Practice" an online non-credit course authorized by technical university of Denmark and offered through Coursera on 05-06-2020.
- 67. Participated in Five Days Hands on Workshop on "Patent Searching, Drafting and Filing" organized by Department of Computer Science and Engineering, Panimalar Institute of Technology, Chennai, Tamil nadu, during 29-05-2020 to 02-06-2020.
- 68. One week online Faculty Development Program on "Outcome Based Education and NBA Accreditation process (UG) organized by CBIT, during 28-05-2020 to 01-06-2020.
- 69. One week online Faculty Development Program on "Nanomaterials and Devices" Organized by Applied Science

Department, NITTTR, Chandigarh, during 25-05-2020 to 29-05-2020.

70. Participated in the IIC Online Sessions conducted by Institution's Innovation Council (IIC) of MHRD's Innovation Cell, New Delhi to promote Innovation, IPR, Entrepreneurship, and Start-ups among HEIs from 28-04-2020 to 22-05-2020 during COVID-19 nationwide lockdown.
71. Participated in One Day Workshop on "Recent Trends in Materials and Its Applications in Engineering" organized by the Department of Physics, Chaitanya Bharathi Institute of Technology (A), Hyderabad, on 20-11-2019.
72. Participated in a National Seminar on Recent trends in Material Research for Science and Engineering Applications (RTMRSEA-2018) Organized by the Department of Applied Sciences, MVSRR, Engineering College, Hyderabad, from 20-12-2018 to 21-12-2018.
73. Participated in a Workshop on "Performance Measures in Academic & Research Aspects" conducted by IQAC, CBIT, Hyderabad on 20-06-2017.

#### **Details of Journal Publications / Conferences (National and International) from the year 2017**

##### **International / National Journals from the Year 2017**

1. A. Ramakrishna Reddy, K. Ramesh, R. Gangadhara, C. Phani sivasyam, Y. Shivakumar, T. Sandeep, E. RajashekerReddy "Systematic study of total oxidation of propane using Ag decorated CeO<sub>2</sub> nanoparticles". *Catalysis Surveys from Asia*, Volume 29, issue 4, pp. 355–370, 30 September 2025, ISSN: 15711013, 15749266.
2. Hari Hara Pratap Kumar Grandhi, Ramesh Kola\*, Ramarao Abburi "Posaconazole: A Triazole Antifungal Drug: Estimation of Chiral Isomers Using a Chiral Chromatography". *Biomedical Chromatography*, Volume 39, issue 11, pp.1-13 November 2025, ISSN: 1099-0801
3. Mallaiyah Mekala, Prasad Babu Koora, Ramesh Kola, Bhavani Pokala, Anwar Shaik, Sai Mani Yogesh Kosuru, Yashraj Delhiwala "Biodiesel production from waste cooking oil using Indion-140 catalyst: optimization studies". *Chemical Product and Process Modeling*, July 2025, ISSN: 1934-2659.
4. I.Kathir, Ramesh Kola, S.Shankramma Kerur, S.Dhanalakshmi, M.Sowmya Vani, B.Vijayakumar, Joshua Arockia Dhanraj "Innovations in Nanomaterial Synthesis for Advanced Applications" AIP Conference Proceedings(AIP Conf. Proc. 3300, 020029 (2025), Volume 3300, Issue 1, pp. 020029-1–020029-8, 30 July 2025.
5. Battini Geetha Rani, Sreedhar Gundekari, Kola Ramesh, Chandra Sekhar Vasam, Narasimha Swamy Thirukovela "ZnBr<sub>2</sub> catalyzed sequential A3-coupling and intramolecular cyclization: One-pot synthesis of 3-aminofurans." *Tetrahedron Letters*, Volume 168, pp. 155718, 15 September 2025, ISSN: 0040-4039, 18733581.
6. Tota Jagadish, Ramesh Kola, Bhasker Akkala, Kishor Palle\*, Sambhani Naga Gayatri and P. Ramesh Babu "Isolation of an Anthocyanin from Flowers of *Pterocarpus santalinus* L.f." *High Energy Chemistry*, Volume 59, Issue 3, pp. 301-307, 01 June 2025, ISSN: 16083148.,
7. Saidulu Ganji, Ramesh Kola, Kumaraswamy Gullapelli, Ramesh Martha "Cu-Ag/SBA-15 nano catalysts for the control of microorganisms in water" *Discover Nano* Volume 20, Issue 1, article number 16, pp 1-8, 27th January 2025, ISSN: 2731-9229.
8. CH Keerthi, Ramesh Kola, Divya Pingili, Archana Awasthi, DSNBK Prasanth, Chamakuri Kantlam "Synthesis and biological assessment of triazolo-quinazoline carbothioamide derivatives for p38 MAP kinase inhibition: in-silico and in-vitro approaches" *Medicinal Chemistry Research* Volume 34, Issue 2, pp 432-444, 27th November 2024 ISSN: 1054-2523
9. Itum Ruti, Vishwanathan Kaliyaperumal, Ramesh Kola, Devendra Pratap Rao, Sanjeev Kumar "An Efficient and Green Strategy for the Synthesis of Graphene with Aqueous Polyphenol Extracts of Orchid Flower (*Dendrobium Anosmum*) for Charge Storage" *Materials Letters* Volume 376, 1 December 2024, 137131.
10. Kumaraswamy Gullapelli, Ramesh Nukala , Saidulu Ganji, Ramesh Kola, Ravichandar maroju(2024) "One-pot multicomponent approach towards the synthesis of 5-substituted 1H-tetrazoles using lanthanum (III) nitrate hexahydrate as a catalyst" *Research on Chemical Intermediates* Volume 50, Issue 9, pp 4407-4423, 31st July 2024, ISSN:1568-5675.
11. Kishor Palle, Sambhani Naga Gayatri, Ramesh Kola, Ch Sandhya Rani, P. Ramesh Babu, L. Vijayalakshmi, Seong Jin Kwon, and Md. Mustaq Alif (2024), "Carbon Dioxide Adsorption Study on Rice Husk Activated Carbons by Artificial Neural Network (ANN)." *Russian Journal of Applied Chemistry*, Vol. 97, No. 2, pp. 1–8, 28 June 2024, ISSN: 1070-4272.
12. S. Thiru, Ramesh Kola, Manish Kumar Thimmaraju, C. Sowmya Dhanalakshmi, Vipin Sharma, P. Sakthi, Lakshmana Phaneendra Maguluri, L. Ranganathan & J. Isaac JoshuaRamesh Lalvani(2024), "An analytical characterization study on biofuel obtained from pyrolysis of *Madhuca longifolia* residues" *Scientific Reports*, Volume 14, Issue 1, Article number: 14745 (2024), pp. 1–16, 26 June 2024, ISSN:20452322.
13. Santosh Kumar sahu,V.J.Priyadarshini, Ramesh Kola , Vithoba Tukaram tale, S.Prabagaran, M.Rajendiran(2024), "Linear Regression and Artificial Neural Network-Based wear Performance

Prediction of AL 7050 Reinforced by Nano Particles of WC" Journal of the Balkan Tribological Association, Vol 30, Issue 2, pp 192-204, June 2024, ISSN:1310-4772

14. T. Sathish, Ümit Agbulut, Santhi M. George, K. Ramesh, R. Saravanan, Kenneth L. Roberts, Prabhakar Sharma, Mohammad Asif, Anh Tuan Hoang "Waste to fuel: Synergetic effect of hybrid nanoparticle usage for the improvement of CI engine characteristics fuelled with waste fish oils (2023)" Energy, Volume 275, 127397, pp. 1-11, April 2023, ISSN: 0360-5422.
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#### International / National Conferences from the year 2017

1. Dr.K. Ramesh, presented the paper entitled "Catalytic Hydrogen production and its insitu utilization" at the 2nd International Conference on Biotechnology and Interdisciplinary Technologies (iCBIT-2024) held during 13-14 December 2024 at Chaitanya Bharathi Institute of Technology, Hyderabad, India.
2. K. Ramesh, (2023), Presented a paper titled "Synthesis and characterization of 2-hydroxy-1Methyl-4-(4-(pyridine-4-yloxy) methyl pyridine-2(1H)" at National Conference on "Emerging Trends In Chemical Synthesis" (ETCS-23) Organized by Department of Chemistry, Chaitanya (Deemed to be University) during 06/10/2023 to 07/10/2023.
3. K. Ramesh, (2021), Presented a paper titled "Poly ethylene glycol Supported Metal Nitrates as Well-Organized Reagents for Conversion of  $\alpha$ ,  $\beta$ -Unsaturated Acids to  $\beta$ -Nitrostyrenes under Solvent Free Conditions" at Virtual International conference on "Multifunctional Advanced Materials (VICMAM-2021) Organized by Department of Chemistry, JVM's Degree College in collaboration with Association of Chemistry Teachers (ACT), during 09/08/2021 to 10/08/2021.
4. K. Ramesh, (2021), Presented a paper titled "Effect of Poly Ethylene Glycols for the Conversion of Organic Acids to  $\beta$  –Nitrostyrenes under Conventional and Non-Conventional Conditions" at

International e-Conference on Materials Processing & Characterization (ICMP&C-2020) Organized by Department of Physics, Chaitanya Bharathi Institute of Technology (A), Hyderabad-500075, during 18/09/2020 to 19/09/2020. ISBN: 978-81-946476-9-0.

- 5. K. Ramesh, (2020), Presented a paper titled "Flipped Class Approach in Teaching of Chemistry Using Moodle" at International Webinar on Recent Advances in Science and Technology During the Coronavirus Pandemic (IRSTCP-2020) Organized by Department of Chemistry, Birla Institute of Technology, Mesra, Ranchi, Jharkhand, India-835215, during 18/07/2020 to 20/07/2020.
- 6. K. Ramesh, (2020), Presented a paper titled "Polyethylene glycol (PEG) mediated Kinetic Study of Nitrodecarboxylation of  $\alpha$ ,  $\beta$ -Unsaturated Acids by Blau's Fe (III) Bipy Complex" at Recent Trends In Advanced Materials And Characterization – 2020 (RTAMC - 2020) Organized by VSM COLLEGE (A), Ramachandrapuram, East Godavari District, Andhra Pradesh, India, during 29-01-2020 to 30-01-2020.
- 7. K. Ramesh, (2019), Presented a paper titled "Simple, Rapid and Solvent Free Synthesis of  $\beta$  – Nitrostyrenes from  $\alpha$ ,  $\beta$ -unsaturated carboxylic acids in presence of Poly ethylene glycol supported metal nitrates" at International Conference on Multifunctional Materials (ICMM-2019) Organized by Geethanjali College of Engineering and Technology, Hyderabad-501301, India, during 19-12-2019 to 21-12-2019.
- 8. K. Ramesh, (2019), Presented a paper titled "Solvent Free Synthesis of  $\beta$  – Nitrostyrenes from  $\alpha$ ,  $\beta$ -unsaturated carboxylic acids: a Case Study" at Research Day, Organized by Chaitanya Bharathi Institute of Technology, Hyderabad on 23-08-2019.

