CURRICULUM VITAE

Prof. J. MANJANNA
Dept. of Chemistry, Rani Channamma University (State/Public Univ.)
PB NH-4, Belagavi 591 156, Karnataka, India

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Education

Ph.D. [@ **BARC, Mumbai**] 2001: Industrial Chemistry
M.Sc. 1995: Chemistry } Kuvempu University
B.Sc. 1993: Physics-Chemistry-Mathematics }

Professional experience

Professor		11/09/2016– till date	Dept. of Chemistry Rani Channamma University Belagavi 591 156, Karnataka, India
Associate Professor		11/09/2013–10/09/2016	
Assistant Professor & Coordinator		23/01/2010–10/09/2013	Nanoscience & Technology (M.Tech.) course Dept. of Industrial Chemistry Kuvempu Univ., Shankaraghatta 577 451 Shimoga-Dist., Karnataka, India
Postdoctoral	1.0 yr	04/2009 – 03/2010	The University of Tokyo, **Japan** Special Researcher under **J**apan **S**cience and **T**echnology project.
	2.5 yr	12/2006 – 03/2009	Iwate University, Morioka, **Japan**
	2.0 yr	10/2004 – 11/2006	Hokkaido University, Sapporo, **Japan** **J**apan **S**ociety for the **P**romotion of **S**cience.
	0.5 yr	03/2004 – 9/2004	**I**ndian **I**nstitute of **Sc**ience, Bangalore Research Associate under DST project with Prof. J Gopalakrishnan @ SSCU
	2.0 yr	01/2002 – 03/2004	**B**habha **A**tomic **R**esearch **C**entre, Mumbai **KS Krishnan R**esearch **A**ssociate (BRNS/DAE)
JRF/SRF Ph.D.	5.0 yr	04/1997 – 12/2001	**BARC**, Mumbai & **IGCAR**, Kalpakkam. JRF & SRF under BRNS/DAE project during Ph.D. degree (registered at Kuvempu Univ.)
Lecturer (part-time)	1.0 yr	05/1996 – 04/1997	AVK College for Women, Davangere & Bapuji Inst. Eng. & Tech., Davangere, India

Personal

DoB/ Nationality / Gender **15 July 1972** / Indian / Male
Family Wife: Dr (Smt). D M Chethana, M.Tech. Ph.D.
Children: Son (22 Yr) & Daughter (15 Yr)
Languages known **Kannada**, English & Hindi
Permanent address J. Manjanna s/o Jayappa
HG halli, Karehalli-Post, Hosadurga-Tq.
Chitradurga-Dist, Karnataka 577 533.

Research interests (Material Chemistry & Nanotechnology)
[*(Nano)materials for Energy devices, environmental remediation & Biomedical applications*]

- Resources Recycling from urban mining: Recovery of valuable metals from *e-waste*.
- Electrolyte materials for **Solid oxide fuel cells.**
- Nanomaterials synthesis/characterization & applications (Ag/Au/Cu & Graphene/GO).
- Clay minerals (Mt) and their organic modifications for environmental remediation.
- Structural materials: deformations & phase transformations ($\gamma \rightarrow \alpha'$) in stainless steels.
- Redox systems: Dissolution and complexation of metal oxides in aqueous medium relevant to chemical decontamination (de-scaling) of structural surfaces.

Awards

Listed among the Top 2% Scientists from last 4 years !.

CRS Silver Medal Award	Chirantan Rasayan Sanstha® (**2024**), West Bengal.
Dr.P.N. Sharma Memorial Award	Indian Council of Chemists (**2023**) @ Kota
Best Teacher Award	Giants Group of Belgaum (**2023**)
ISAS Honorary Fellowship & Award of Excellence	Indian Society of Analytical Scientists (**2023**)
Int. Researcher exchange award	Iwate University, **Japan** (March 17-28, **2019**)
JSPS Bridge Fellow [BR170604]	July-Aug **2017** @ Iwate University, **Japan**
Vice-Chancellor's Appreciation Award @ Rani Channamma University (2015 & 2016)	
Int. Researcher exchange award	Iwate University, **Japan** (March 3-7, **2015**)
Young Scientist award (2012)	Vision Group on Sci. & Techno., GoK.
Best paper award – ***6 times***	(9/2000, 12/2008 & twice in 9/2010, 10/2013)
JSPS Postdoctoral Fellowship	: 2004-2006 @ Hokkaido Univ., **Japan**
K S Krishnan Research Associate	: 2002-2004 BRNS/DAE, Govt. of India
Young Scientist	: 2000 Indian Council of Chemists
JRF/SRF (during Ph.D.)	: 1997-2001 BRNS/DAE, Govt. of India

Summary of Research output

Patents	: **04**
Book chapter	: **04**
SCI Journals	**: 110**
Other Journals	: 30
Int. Conference	: 55
Nat. Conference	: 70
Technical Reports	: 06
Invited talks	: 130

As of Oct 2025

Citations	4800
h-index	**36**
i10-index	75

Cumulative Impact Factor (110): 525

ORCID iD	:	0000-0002-6025-1923
Scopus Author ID	:	6603083548
Web of Science Researcher ID	:	ABG-4209-2020 (Publons-Researcher-ID)
Vidwan-ID	:	408034
ScholarGPS® ID	:	43087412356399

Research supervision

M.Tech./M.Sc. Projects : 40 completed
Ph.D. students : **12** completed & **05** ongoing

Membership in Professional Bodies

- Chirantan Rasayan Sanstha (CRS), Midnapore, West Bengal (LM, 152).
- The Clay Minerals Society of India (CMSI) C/o IARI, New Delhi (LM, since 2023).
- Electrochemical Society of India (ECSI) C/o IISc., Bangalore, Life Member (L-360).
- Indian Society for Analytical Scientists (ISAS) – LM & Chairman, Belagavi Chapter. LM 2876
- Indian Association for Radiation Protection (IARP) C/o AERB, Mumbai (LM since 2015).
- The Indian Science Congress Association, Kolkatta – Life Member *L28484* (since 2015).
- Indian Association of Nuclear and Allied Scientists C/o BARC, Mumbai (since 2015).
- Society for Materials Chemistry, BARC, Mumbai – (LM-619).
- IEEE Nanotechnology Council, NJ USA.
- The Clay Mineral Society, Chantilly, VA, USA.
- Atomic Energy Society of Japan.
- Magnetic Society of Japan.

Academic & administrative activities

- Chairman, CAS re-assessment committee for promotion of Faculty members as per UGC norms.
- Member, Governing Body of SKE Society's GSS College, Belagavi (since 2024).
- Member of Advisory Council of YCSRD, Shivaji University, Kolhapur.
- Co-opted EC Member, *Society for Materials Chemistry* (SMC) C/o BARC, Mumbai.
- Member, Purchase/Technical Committee, PM-USHA MERU in RCU & PM-USHA and DST-SAIF @ Karnatak University (since 2023).
- Local Mentors in Specific areas of Technology – 1 for the *New Age Innovation Network* (NAIN 2.0) scheme of GoK @ SGBIT, Belagavi.
- Subject Expert/VC Nominee for '*Screening cum Evaluation Committee*' and '*Selection Committee*' for number of Faculty members for Promotion under CAS/UGC regulations.
- Member of Selection Committee for *Guest Lecturers* to PG Departments of RCU and Constituent College.
- Member of the Statutes and Regulations committee at RCU and Bagalkot University.
- Member, Screening cum selection committee for promoting non-teaching posts based on Cadre and Recruitment Rules.
- Member of Institute Development Plan (IDP) committee, RCU.
- Member of AAA committee @ Shivaji University, Kolhapur (Sept 29-30, **2025**); Davangere University (Jan 16-18, **2025**); MS Ramaiah College of Arts Science & Commerce, Bangalore (Jun 13-15, **2024**).
- **Director,** Internal Quality Assurance Cell (IQAC) RCUB. (Since 14/06/2022).
- Chief Superintendent for PG Examinations at RCU campus (March/April 2022)
- **Dean**/ Director, School of Basic Sci, Rani Channamma Univ. (18/12/2020 to 17/12/2022).
- **Deputy Registrar**, Gen Admin, Rani Channamma Univ. (07-09-2019 to 11-10-22).
- **Chairman**, Dept. of Chemistry, Rani Channamma Univ. (18/09/2015 to 17/09/2017 & 18/09/2019 to 17/09/2021).
- Member, Board of Appointment of Examiners (BoAE) for PG Chemistry/ Sugar Technology/ Alcohol Technology & UG Chemistry/ Biotechnology/ Botany/ Zoology etc.
- Chairman, Board of Examiners (**BoE**), Dept of Chemistry, Rani Channamma Univ., (Aug 2014 – Aug 2015), (Aug 2017 – Aug 2018) & (Aug 2019 – Aug 2020).
- Chairman/Member of *Doctoral Committee*, Dept of Chemistry @ Rani Channamma Univ.

- BoS Chairman/ Member for PG (M.Sc. Chemistry) and UG (Chemistry) in RCU and different Universities in Karnataka.
- BoE Chairman/ Member for PG programmes (Chemistry/ Polymer Science/ Sugar Science and Technology/Alcohol Technology/ M.Tech. in Nanotechnology/ Pharmaceutical Chemistry/Industrial Chemistry etc) in many Universities of Karnataka.
- Chairman/Member of *Local Inspection Committee* (**LIC**) for College Affiliation to RCU; Exam centre visits (Sept 29, 30 and Oct 3, 20205), Squad duty etc., since 2014.
- Coordinator, Centre for Innovations in Teaching and Research @ Rani Channamma University (*Aug 2014- till date*).
- Coordinator, OBC and Minorities Cell @ Rani Channamma University (16-06-2018 to 11-10-2022).
- Coordinator, University-Industry Interaction Cell (UII) @ RCU (since *June 2017*).
- Nodal Officer**,** Oversea Centre for Foreign Students @ RCU (since *Oct 2015*).
- **Coordinator**, M.Tech. in Nanoscience and Nanotechnology @ Kuvempu Univ. (April 2010- Sept 2013).

Research guidance for Ph.D. students

Sl. No	Name & Address of the student		Topic/ title of the Thesis	Supervision
1	**Dr. KC Anjaneya**	Dept. of Industrial Chemistry Kuvempu Univ.	Synthesis, structural and electrochemical studies on electrolyte materials for solid oxide fuel cell.	***Guide*** (Awarded in **Aug 2015**)
2	**Dr. S Yallappa**	Dept. of Industrial Chemistry Kuvempu Univ.	Synthesis, biofunctionalization and toxicology studies of nanomaterials for biomedical applications.	***Guide*** (Awarded in **Sept 2015**)
3	Mrs. IS Vijayashree	Dept. of Biochemistry Kuvempu Univ.	Biosynthesis, characterization and phramocotoxicological effects of noble metal nanoparticles and their alloys.	***Co-guide*** (Awarded in **Oct 2017**)
4	Mr. PK Somaraja	Dept. of Microbiology Davangere Univ.	Bioremediation of polychloro biphenyls: A nanobiotechnological approach.	***Co-guide*** (Awarded in **Dec 2017**)
5	**Mr. Anand Kabadagi**	Dept. of Chemistry **R**ani **C**hannamma **U**niv.	Clay mineral based inorganic–organic hybrid materials for sorption and catalysis	***Guide*** (Awarded in **March 2021**)
6	**Mr. Santosh Chikkmath**	Dept. of Chemistry RCU	Investigation on alteration of clay mineral relevant to geological waste disposal.	***Guide*** (Awarded in **April 2021**)
7	**Mrs. Mrunal Kangralkar**	Dept. of Chemistry RCU	Evaluation of metal oxide based nanomaterials for the removal of heavy metals and dyes from aqueous medium.	***Guide*** (Awarded in **April 2021**)
8	**Mr. Naeemakhtar Momin**	Dept. of Chemistry RCU	Technologically important metal oxide nano particles for energy devices.	***Guide*** (Awarded in **Feb 2022**)
9	Mr. Gururaj Hosamani	Dept. of Electronic Science Kuvempu Univ.	Study on transition metal ion-doped dilute magnetic semiconductors for spintronics device	***Co-guide*** (Awarded in March 2023)
10	Mr. Dinesh Patil	Dept. of Chemistry RCU	Hydrometallurgical recovery of metal values from e-waste and their applications	***Co-Guide*** (Awarded in Nov 2023)
11	**Mrs. Shaila G Sanjeevagol**	Dept. of Chemistry RCU	Electrochemical Investigations on the Detection of Biomolecules by using Metal oxide nanoparticles	***Guide*** (Awarded in Nov 2024)

12	**Ms. Rohini Sankannavar**	Dept. of Chemistry RCU	Layered double hydroxides as a multifunctional material for supercapacitor applications	***Guide*** (Awarded in Oct 2025)
14	Mr. Raju Kangutkar	Dept. of Chemistry RCU	Semiconducting metal oxide nanocomposites for photocatalytic applications	***Guide*** (Registered in Oct 2021)
15	Ms. Bhagyashri Uppin	Dept. of Chemistry RCU	Eco-friendly chemical approach for the recovery of valuable metals from secondary metal resources	***Guide*** (Registered in Oct 2021)
16	Ms. Mubeen H Jakati	Dept. of Chemistry RCU	Metal oxide nanocomposites and heterostructures for energy devices	***Guide*** (Registered in Oct 2021)
17	Ms. Priya Nikkam	Dept. of Chemistry RCU	Studies on chemically altered smectite clay minerals for catalytic and adsorption applications	***Guide*** (Registered in Oct 2021)
18	Ms. Pooja KR	Dept. of Chemistry RCU	Investigation on Metal oxide nanostructures for Electrochemical sensing and Energy storage applications	***Guide*** (Registered in Jan 2023)

Funded Projects

Title of the Project	Amount	Agency	Duration
Designing and electrochemical response of New cathode materials for Lithium-ion battery (**PI**)	Rs. 50,000/-	Kuvempu Univ. (UGC)	**Completed** May 2011 – Nov 2012
Waste management / recycling of electrode materials from the spent Li-ion batteries through chemical extractions (**PI**)	Rs. 4,00,000/-	VGST-SMYSR, GoK	**Completed** Feb 2012 – July 2013
PG Teaching Programme (M.Tech.) in Nanoscience and Technology @ Kuvempu Univ., D/o Industrial Chemistry (**Coordinator**)	Rs. 2,84,00,000/-	DST Nanomission Council	**Completed** April 2010 – Sept 2013
Studies on basic properties of Fe-montmorillonite to clarify the integrity of altered clay minerals in repositories -**PI**	Rs. 30,71,900/-	BRNS/ DAE Mumbai	**Completed** (2015-19)
Resources Recycling through Urban mining using chemical methods	Rs. 1,00,000/-	RCU-PMEB (Internal)	**Completed** (2017-19)
DST-FIST Level-1 (**Coordinator**)	Rs. 86,00,000/-	DST, Govt. of India	**Completed** (2017-21)
Resources recycling through urban mining for sustained development: Hydrometallurgical approach - **PI**	60,00,000/-	VGST-CESEM, GoK	Ongoing (2021-26)
Investigation on oxide ion conducting electrolytes for intermediate temperature solid oxide fuel cells (IT-SOFCs) - **PI**	4,00,000/-	RCU-PMEB (Internal)	**Completed** April-2022 to June-2023
Sustainable chemical approach for recovery of Critical Elements from e-waste through urban mining towards circular economy - **PI**	1,00,000/-	RCU-PMEB PM-USHA	Ongoing April-2025 to March-2026
Synthesis and Pharmacological evaluation of some novel curcumin derivatives (**Co-PI)**	49,94,000/-	DST-SERB	Ongoing 2023-26
Green method synthesis of natural polymer blend	40,00,000/-	VGST-GRE,	Ongoing

nanocomposite films: Investigation of bioremediation and food packaging applications (**Co-PI)**		GoK	(2025-28)

National/International seminars/conferences organized:

1. International Analytical Science Congress (Jan 22-24, **2026**) @ SGBIT, Belagavi as Convener.
2. Seminar for UG/PG Teachers in Chemistry on Role of Chemistry Teachers towards National Heritage and Indian Knowledge System (March 29, **2024**) as Convener @ SRFGC, Belagavi.
3. National Symposium & Workshop on Advances in Chemical Sciences & its Applications (Sept 14-15, **2023**) as Convener @ RCU, Belagavi.
4. National Conference on Advances in Analytical Techniques for Materials and Bio-Medical Application (Dec 15-16, **2022**) as Convener/ Conference Chair @ RCU, Belagavi.
5. [Online] National webinar Series by Indian Society for Analytical Scientist (ISAS) in association with Dept. of Chemistry, RCU on (July 17, Aug 14, Oct 23 & Dec 11, **2021**) as Convener
6. Workshop on 'An Insight into Intellectual Property Rights (IPR) and Patent Filling Process (Dec 10, **2021**) @ RCU in association with IQAC as Convener.
7. International webinar series on Material Chemistry & Industrial Relevance (July-Aug **2020**) as Convenor.
8. Workshop for framing UG syllabus (Chemistry / Botany/ Zoology / Biotechnology / Microbiology) as per UGC CBCS @ RCU, Belagavi (Dec 12, **2019**) as **Coordinator**.
9. National Seminar on *Periodic Properties of the Elements* (on the occasion of IYPT) @ RCU, Belagavi (Oct 5**, 2019)** as **Convener**.
10. National Seminar on NUCLEAR CHEMISTRY @ RCU, Belagavi (March 19**, 2018)** as **Convener.**
11. National Symposium on UNIVERSITY-INDUSTRY Interaction to promote Technology Transfer & Entrepreneurship @ RCU, Belagavi (Oct 14**, 2017)** as **Convener.**
12. DAE-BRNS-IANCAS National Workshop on *Radiochemistry and Applications of Radioisotopes* @ RCU, Belagavi (Sept 19-24**, 2016)** as **Convener.**
13. Int. Conf. on *Science and Technology: Future Challenges and Solutions* @ Mysore University (Aug 8-9, **2016**) as **Secretary**, under the auspice of Indian JSPS Alumni Association.
14. State level symposium on *Nuclear Energy for better Life & Environment* @ RCU, Belagavi (Sept 28, **2015**) as **Coordinator.**
15. National Seminar on *Nuclear Sciences & Indian Nuclear Energy Programme* @ RCU, Belagavi (Nov 28-29, **2014**) as **Coordinator.**
16. Int. Conf. on *Recent Advances in Materials Science* @ Karnataka State Higher Education Council, Bangalore (Nov 6-8, **2012**) - Organizing committee member.
17. National seminar on *Progress in Nanoscience & Technology* @ Kuvempu Univ., (May 5-6, **2012**) **as Convener.**
18. Group leader for *Science Exhibition* by Dept of Nanoscience & Nanotechnology (M.Tech) as part of Silver Jubilee events @ Kuvempu Univ. (Feb 16-19, **2012**).
19. National Workshop on *Elements of Nanoscience & Technology* @ Kuvempu Univ. (Oct 12-13, **2011**) **as Convener.**
20. National Workshop on *Usage of Instruments for Nanotechnology Applications* @ Kuvempu Univ. (April 25, **2011**) **as Convener.**
21. National Symposium on *Frontier areas in Chemical Science & Nanotechnology* @ Kuvempu Univ. (May 1 & 2, **2010**) - Organizing committee member.

Local Seminars Organized:

1. Orientation Programme on Rural Development in association with IQAC (by Shri. Ashwin Bhusare) @ Kuvempu Hall, RCUB (Aug 08, **2022**).
2. NET/SLET Tutorial on Chemical Sciences @ Dept. of Chemistry, RCU (March 10, **2021**).
3. NET/SLET Orientation Programme for PG students of RCU in association with PMEB (March 1-4, **2021**) as Convener.
4. Importance of Millets in Diet: *A Scientific Understanding* by **Dr. Khadar Valli** on 21-11-2016 @ Kuvempu Hall, RCUB.
5. Vedic Astrology as a tool for early Detection of Cancer by **Mr. MG Kulkarni** on 21-11-2016 @ Kuvempu Hall, RCUB.
6. Radiation & Photochemistry by **Prof (Dr). DB. Naik** on 25-11-2016 @ Dept. of Chemistry, RCUB.

7. Water Management Issues on the occasion of *World Water Day-2017* by **Prof. SG Joshi** on 31-03-2017 @ Kuvempu Hall, RCUB.
8. Chemical Processes in Sugar Industry by **Mr. Birendra Das**, D.G.M.(Process), Shri Halasidhanath Sahakari Sakhar Karkhana Ltd., Nipani (Sept 16, 2016).

Orientation/ Training courses attended

- Refresher Course [University & PG College M.Sc. Teachers (CHEMISTRY) training programme] @ TDC, IISc., Challakere campus at Kudapur (June 7-27, **2018**).
- DAE-BRNS-IANCAS National Workshop on *Radiochemistry and Applications of Radioisotopes* @ Rani Channamma University, Belagavi (Sept 19-24**, 2016)**.
- Training cum Certification course on 'Safety aspects in the Research Application of Ionizing Radiation' (RA-46) by Indian Association for Radiation Protection (IARP) @ CT & CRS of BARC and AERB, Anushaktinagar, Mumbai (Dec 7–15, **2015**).
- Orientation Course @ UGC-Academic Staff College, Univ. of Hyderabad (Mar 04-31, **2011**).

List of Publications

Patents

4. **J. Manjanna**, D. Patil & M.B. Sridhara
Delithiation and Re-lithiation of Cathode materials in Spent Lithium-ion batteries for Recovery of metal values and Recycling **Indian Patent 202341058217 A**
The Patent Office Journal 36 (**2023**) 59320 published on 08/09/2023

3. **J. Manjanna**
Organo-modified clay minerals by solid state *in-situ* interlayer complexation of 1,10-phenonthroline with Fe-montmorillonite **Indian Patent 4611/CHE/2015 A**
The Patent Office Journal 38 (**2015**) 53114 published on 18/09/2015

2. **J. Manjanna** & G.P. Nayaka
Recovery of cobalt from the spent lithium-ion battery through chemical extraction and precipitation **Indian Patent 2997/CHE/2013 A**
The Patent Office Journal 31 (**2013**) 19972 published on 02/08/2013

1. **J. Manjanna**, T. Kozaki, N. Kozai & S. Sato.
Method for Preparing Iron (II) Type Smectite Using Iron(II) Nitrilotriacetate Solution.
Japanese Patent JP-2008-273747A

Book Chapters

4. N. Momin & **J. Manjanna**
Direct Ethanol Fuel Cells: Engineering Towards Net-Zero Carbon Emission. *Direct Liquid Fuel Cells: Recent Advances and Challenges and the Sustainable Energy Transition*, N.B. Shaari, A.A. Wani, S.K. Kamarudin (ed.) CRC Press, **2025**, ISBN 978-1-003-51259-2 https://doi.org/10.1201/9781003512592

3. D. Patil, **J. Manjanna**, V. Gangaraju & D. Rangappa
Methods and Technologies for Recycling Li-ion Batteries. *Handbook of Energy Materials*, R. Gupta, (ed.) Springer Singapore **2023**

https://doi.org/10.1007/978-981-16-4480-1_11-1 ISBN 978-981-16-4480-1

2. N. Momin & **J. Manjanna**
La- and Gd-doped CeO_2 nanoparticles as electrolyte materials for intermediate temperature solid oxide fuel cells.
Recent Trends in Electrochemical Science and Technology, Vol. 15 (**2022**) pp. 127 Springer, Singapore. DOI : 10.1007/978-981-16-7554-6
ISBN 978-981-16-7553-9

1. **J. Manjanna**, G. Dodbiba, T. Kikuchi, S. Matsuo & T. Fujita
Mn oxides for the adsorption of Mo(VI) towards liquid waste management in the nuclear industry
Modern Aspects of Functional Materials (Eds. Baldev Raj, S.C. Sharma & W. Cantwell), *Tumkur University*, India. (**2014**) pp 39-46. ISBN: 978-93-82694-08-3

Peer-reviewed (SCI) Journals **Impact Factor**

110. R. Sankannavar, O. Kulkarni, T. Shaikh, S. Kolekar, J. H. Kim & **J. Manjanna**
A high-performance nanoflowers $MnCo_2O_4$/ZnCo layered double hydroxide electrode supported on Ni foil for advanced asymmetric supercapacitor.
Energy & Fuels xxx (**2025**) xxxx ISSN: 2352-152X **5.3 Q1**

109. KR Pooja, BS Chikkatti, AM Sajjan, **J Manjanna** & G Nagaraju
Engineering of β-$Cu_2V_2O_7$ nanostructures for bifuntional use in environmental monitoring and supercapacitor applications.
J. Ind. Chem. Soc., 102(10) (**2025**) 102040 ISSN: 0019-4522 3.4 **Q4**

108. B. Uppina, **J. Manjanna*** S. Kolekar & GP. Nayaka
Microwave-assisted recovery of Co, Ni, Mn and Li from spent Li-ion battery by dilute organic acids and synthesis of $LiNi_{0.5}Co_{0.2}Mn_{0.3}O_2$ from recovered metal precursors.
JOM: *J. Minerals, Metals & Materials Society*, xx (**2025**) xxxx ISSN 1543-1851 **2.3 Q2**

107. M. Jakati, N. Momin & **J. Manjanna***, Effect of Sr^{2+} and Sr^{2+}, La^{3+} co-doping on ionic conductivity of ceria based electrolytes at $350 \leq T \leq 800\ ^0C$.
Ceramic International 51B (24) (**2025**) 42262-42272 ISSN 0272-8842 **5.6 Q1**

106. KR Pooja, G. Nagaraju, C.P.P. Ujjani, V.J. Koti, K.B. Naveen, R. Harini, **J. Manjanna*** & C. Mallikarjunaswamy, Efficient Atrazine degradation via green synthesized Zirconia NPs: A sustainable approach to water purification.
Journal of Cluster Science 36 (**2025**) 133 ISSN: 1572-8862 **2.7 Q2**

105. B. Uppina, R. Sankannavar, RS. Kangutkara, **J. Manjanna*** S. Kolekar & GP. Nayaka.
Recovery of intercalated Li and synthesis of reduced graphene oxide from graphite & of spent Li-ion battery for supercapacitor application.
Inorg. Chem. Commun. 127 (**2025**) 114371 ISSN: 1387-7003 5.4 **Q2**

104. G. Nagaraju, KR. Pooja, GR. Suma, N.G. Palan, R. Kiran, R. Puttegowda, A. Nizam, S. Hegde, R. Harini & **J. Manjanna**, Green approach to g-C_3N_4/$Zn_2V_2O_7$ nanocomposites synthesis using salvia hispanica powder for photocatalytic degradation of dyes and organic catalysis.

Inorg. Chem. Commun. 176 (**2025**) 114143 ISSN: 1387-7003 5.4 **Q2**

103. RS Kangutkar, P. Walko, PL. Dhepe, GP. Nayaka & **J. Manjanna*** Photocatalytic hydrogen evolution by MoO_3@*g*-C_3N_4 and MoO_3@*f*-MWCNT nanocomposites in deionized and natural seawater under visible light.
ACS Applied Nano Materials 8(14) (**2025**) 7175–89 ISSN: 2574-0970 **5.3 Q1**

102. KR Pooja, B.S. Chikkatti, AM. Sajjan, **J. Manjanna*** & G. Nagaraju, Enhanced supercapacitive performance of $NiFe_2O_4$ nanoparticles embedded polylactic acid composite flexible films and their antibacterial activity.
Ionics 31 (**2025**) 5013-5028 ISSN: 0947-7047 2.6 **Q2**

101. GR Gagana, KR Pooja, G Venkatesha, FA Alharthia, **J Manjanna**, R Harini, B Nagaraju & G. Nagaraju, Biogenic synthesis of MnV_2O_6 nanoparticles using *Brassica nigra* seed powder and its potential for photocatalytic degradation of dyes.
Journal of Electronic Materials 54 (**2025**) 5312 ISSN: 0361-5235 2.2 **Q3**

100. R. Sankannavar, R. Bhosale, R. Jadhav, S. Kolekar, JH Kim & **J. Manjanna**, A high-performance Ag@CoFe-layered double hydroxide supported on stainless steel mesh for solid-state energy storage.
Journal of Energy Storage 117 (**2025**) 116185 ISSN: 2352-152X **9.4 Q1**

99. R. Sankannavar, R. Bhosale, R. Jadhav, S. Kolekar, JH. Kim & **J. Manjanna**, High-efficiency pseudocapacitive layered double hydroxide on Ni-foil as an electrode for superior solid-state over liquid-state asymmetric supercapacitor.
Inorg. Chem. Commun. 172 (**2025**) 113741 ISSN: 1387-7003 **5.4 Q2**

98. **J. Manjanna***, M. Jakati & N. Momin, Improved ionic conductivity of La and Mg co-doped ceria synthesized by auto-combustion method.
Ceramic International 51 (**2025**) 411-422 ISSN 0272-8842 **5.6 Q1**

97. RS Kangutkar, P. Walko, K. Athira, **J. Manjanna*** & RN. Devi, Environment friendly synthesis of reduced graphene oxide from spent lithium-ion batteries graphite and its nanocomposite with MoO_3 nanorods for photocatalytic hydrogen evolution.
Energy & Fuels 38(22) (**2024**) 22376–22392 ISSN 0887-0624 **5.2 Q1**

96. N. Momin, **J. Manjanna***, S. Kobayashi, ST. Aruna, SS. Kumar, S. Sabale & RS. Keri, Enhanced sinterability and conductivity insights of Nb_2O_5-doped 8 mol% yttria-stabilized zirconia: Implications for low-temperature ceramic electrolytes.
Ceramic International 50 (**2024**) 48222-48233 ISSN 0272-8842 **5.6 Q1**

95. MV. Hiremath, N. Momin, **J. Manjanna**, BG. Hegde, & DG. Byalollikar. Synthesis and characterization of nanostructured cerium-doped zinc oxide thin films for selective nitrogen dioxide gas sensing applications.
Trans. Indian Ceram. Soc 83(3) (**2024**) 199-210 ISSN 2165-5456 1.5 Q4

94. MV. Hiremath, N. Momin, MV. Kangralkar, **J. Manjanna**, BG. Hegde & DG. Byalollikar, Synthesis and characterization of Fe-doped ZnO films for enhanced NO_2 gas sensing applications.
J. Korean Physical Society 85 (**2024**) 772–782 ISSN: 0374-4884 0.8 Q4

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55. D. Patil, **J. Manjanna***, S. Chikkamath, V. Uppar, M. Chougala, Catalytic reduction of 4-nitrophenol using a stable Cu metal particles and photocatalytic degradation of methylene blue from CuO. *ib id*. J-127

54. S. Chikkamath, M.A. Patel, A.S. Kar, S. Kumar, B.S. Tomar, J. Manjanna* Anion (^{131}I) diffusion in altered Fe-montmorillonite clay minerals relevant to geological waste disposal. *ib id*. A-140.

53. N. Momin, J. Manjanna, S. Senthilkumar & S.T. Aruna, Gd^{3+}- and La^{3+}-doped CeO_2 nanoparticles as electrolyte materials for IT-SOFC. Nat. Symposium on Electrochemical Science and Technology & ECSI Research Scholars Meet (Jan 21-22, **2021**).

52. S. Shaila, D. Patil, A. Kabadagi & J. Manjanna*, Electrochemical behavior of hydroxychloroquine sulphate (HCQS) using CuO and GO modified carbon paste electrode. Nat. Symposium on Electrochemical Science and Technology & ECSI Research Scholars Meet (Jan 21-22, **2021**). Best Paper award

51. E. Nomura, S. Matsuo, S. Kobayashi, **J. Manjanna**, Y. Kawamura, J. Suzuki K. Ohishi & K. Hiroi. Magnetization analysis of hollow Fe_3O_4 particles by polarized small angle neutron scattering. The 44th Annual Conference on Magnetics in **Japan** (Dec 14-17, **2020**) 17pB-15 (Online).

50. S. Chikkamath, MA Patel, AS Kar, VV. Raut, BS. Tomar, J Manjanna, ^{133}Ba(II) sorption on Fe-montmorillonite - plausible alteration product of buffer materials (bentonite) in DGR @ Nat. Symposium on Emerging Trends in Separation Science and Technology (e-SESTEC-2020), DAE-BRNS DAE Convention Centre, BARC, Mumbai (May 12-16, **2020**).

49. A. Kabadagi, S. Chikkamath, S. Kobayashi & **J. Manjanna**, Organo-modified Fe-montmorillonite as solid acid catalyst for the reduction of nitroarenes. Nat. Conf. on Innovations in Chemical Sciences @ Univ. of Mysore, Mysuru (Jan 30-31, **2020**).

48. S. Chikkamath, MA Patel, AS Kar, BS. Tomar & **J Manjanna**, ^{137}Cs sorption and migration behavior Fe-montmorillonite. *ib id*.

47. D. Patil, S. Chikkamath & **J. Manjanna**, Backend technology for Li-ion battery: Recovery of valuable metals. *ib id*.

46. D. Patil, S. Chikkamath, S. Keny, VS Tripati & **J. Manjanna**[*]. Microwave–assisted rapid dissolution of spent cathode material $LiCoO_2$ using mild organic acid mixtures and precipitation of metal ions, *Nat. Conf. Advanced Li-ion Batteries: Science and Technology @* IISc Campus, Bangalore (Dec 27-28, **2019**).

45. N. Momin, H.C. Barshilia, S.T. Aruna, S. Senthilkumar, K.S. Rane & **J. Manjanna**[*], Electrochemical impedance analysis on Cu^{2+}-doped TiO_2 as an electrolyte for SOFC, *@ Nat. Conf. Advanced Li-ion Batteries: Science and Technology @* IISc Campus, Bangalore (Dec 27-28, **2019**).

44. S. Chikkamath, M A Patel, A.S Kar, **J Manjanna** & B.S. Tomar, Diffusion of ^{22}Na and ^{37}Cs in Fe(II)-motmorillonite clay mineral *@ 14th Biennial DAE BRNS Symposium on Nuclear and Radiochemistry*, DAE Convention Centre, Mumbai (Jan 15-19, **2019**).

43. S. Chikkamath, M A Patel, A.S Kar, **J Manjanna** & B.S. Tomar, Cs(I) sorption studies on Fe-montmorillonite clay mineral. *@ 8th Biennial DAE BRNS Symposium on Emerging Trends in Separation Sciences & Technology, BITS Pillani Campus, Goa (*May 23-26, **2018***).*

42. DM Patil & **J Manjanna**[*], Recovery of valuable metal ions from urban mining (E-waste) through hydrometallurgical process, *South Zonal Research Convention*, *Anveshana* (Association of Indian Universities) @ Tumkur University (Feb 14-15, **2017**).

41. **J Manjanna**[*], Polymer coated Fe-oxide nanomaterials for removal of Mo species from simulated liquid waste relevant to geological disposal of HLW, *103rd Indian Science Congress 2016: Science & Technology for Indigenous Development in India @* University of Mysore, Mysore (Jan 3-7, **2016**).

40. S Yallappa & **J Manjanna**[*], Bio-functionalization of MWCNTs with silver and copper nanoparticles for amplified antimicrobial activity via green approach, *Recent Trends in Medicinal Chemistry @* Jyoti Nivas College, Bangalore (Sept 3-4, **2014**).

39. **J Manjanna**[*], SP Bharath, A Javeed & S Yallappa, CNT-coated cotton fabrics for possible energy storage devices, *Nat. Conf. on Advances in Polymeric Materials*, SJC of Engineering, Mysore (April 25-26, **2014**).

38. S Yallappa & **J Manjanna**[*], Biosynthesis and antimicrobial activity of colloidal Au, Ag and Au-Ag alloy nanoparticles by *J. sambac* leaves extract under microwave irradiation: A green approach, *6th KSTA Conference on S & T for Promoting Innovative R & D @* Christ University, Bangalore (Dec 20-21, **2013**).

37. M Vinuth, BM Vinoda, HS Bhojya Naik & **J Manjanna**[*], Fe(II)–montmorillonite for environmental remediation of hexavalent chromium. *ib id*.

36. BM Vinoda, YD Bodke, **J Manjanna**, M Vinuth, GP Nayaka & KC Anjaneya, Preparation of Fe(II)–montmorillonite using ferrous citrate complex and reduction of nitroaromatic compound. *ib id*.

35. KC Anjaneya, GP Nayaka, **J Manjanna**[*], G Govindaraj & KN Ganesha**,** Investigation on the Sr-doped ceria $Ce_{1-x}Sr_xO_{2-\delta}$ (x = 0.05–0.2) as an electrolyte for intermediate temperature SOFC, *ib id*.

34. GP Nayaka, KV Pai, **J Manjanna**[*], KC Anjaneya, BM Vinoda & M Vinuth, Synthesis, structural, electrical and electrochemical investigation on $Li[Ni_xAl_yMn_{2-x-y}]O_4$ ($0.1 \leq x, y \leq 0.4$) as cathode material for Li-ion batteries, *ib id*.

33. K Shankaramma, MB Shivanna & **J Manjanna**[*], Intracellular uptake of α-Fe_2O_3 nanoparticles and its impact on growth promotion in tomato plant, *9th Kannada Science Conference @* University of Horticultural Sciences, Bagalkot (Sept 15-18, **2013**).

32. BM Vinoda, M Vinuth & **J Manjanna**[*]**,** Fe(II)-montmorillonite through the cation-exchange reaction between Fe(II)-citrate and Na-montmorillonite, *4th Interdisciplinary Symposium on Material Chemistry @* BARC, Mumbai (Dec 11-15, **2012**).

31. GP Nayaka, KC Anjaneya, P Manikandan, P Periasamy, VS Tripati & **J Manjanna**[*], Cycling performance of lithium cells using $Li[Ni_{0.4}M_{0.1}Mn_{1.5}]O_4$ [M = Al, Bi] compounds as cathodes for high power application, *ib id*.

30. KC Anjaneya, GP Nayaka, **J Manjanna**[*], G Govindraj & VS Tripati, Preparation and characterization of $Ce_{1-x}Gd_xO_{2-\delta}$ (x =0.1 -0.3) solid electrolyte materials for intermediate temperature solid oxide fuel cells, *ib id*.

29. S Yallappa, **J Manjanna**[*] & IS Vijayashree, Metal nanoparticles obtained by using plant extract as reducing agent under microwave irradiation: A green approach, *ib id*.

28. KC Anjaneya & **J Manjanna**[*], Synthesis and characterization of Ce_{1-x} $M_xO_{2-\delta}$, (*M* = Sm, Gd and x= 0.1-0.3) solid solution, *Conf. on Impact of Chemical Biology on Society @* Kuvempu Univ. (April 26-27, 2012).

27. S Yallappa, **J Manjanna**[*], M Vinuth, MA Sindhe, ND Satyanarayan & K Nagaraja, Rapid synthesis and biological evaluation of stable bio-functionalized copper nanoparticles, *Conf. on Impact of Chemical Biology on Society @* Kuvempu Univ. (April 26-27, 2012).

26. GP Nayaka, P Manikandan, P Periasamy & **J Manjanna**[*], Synthesis, Structural and electrochemical characterization of $Li[Ni_{0.4}Al_{0.1}Mn_{1.5}]O_4$ as new cathode material for Li-ion batteries, *Nat. Conf. on Social Relevance of Nanomaterials and Applications: An interdisciplinary Approach @* Karnataka State Higher Education Council / Tumkur Univ. (Dec 31, 2011).

25. R Shashanka, BE Kumaraswamy, Mohankumar & **J Manjanna**, Electro-generation of copper oxide nanoparticles: A Cyclic voltammetric study. *Nat. Conf. on Chemistry of Materials @* Tumkur Univ. (Sept 28, 2011) - **received best paper award**

24. BM Vinoda & **J Manjanna**[*], A New method for the Synthesis of Fe(II)-montmorillonite by using Fe(II)-Salicylate Complex, *ib id.*

23. KC Anjaneya & **J Manjanna**[*], Synthesis of Perovskite based new cathode material for solid oxide fuel cell (SOFC) application, *ib id*.

22. H Vidya & **J Manjanna**[*], Feasibility studies of Graphene Synthesis by Chemical Method, *ib id*.

21. S Yallappa, **J Manjanna**[*]**,** ND Satynarayan & KS Manjunatha, Rapid synthesis of silver nanoparticles using different plant extracts for their antimicrobial studies, *Nat Conf 'Herbal*

Medicines in the Era of Globalization' @ Sahyadri Science College, Kuvempu University, Shimoga, India (Sept 10-11, 2011) – **received best poster award**.

20. KB Vinayakumar, **J Manjanna**[*], GD Prasanna, HS Jayanna, HC Barshilia & S Kobayashi, Formation of Suparparamagnetic CuO clusters of nanoparticles, *Nat. Conf. Nanoscience and Engineering for better Ceramics* @ Indian Institute of Science, Bangalore, India (June 23-24, 2011).

19. **J Manjanna**[*], A Singhal, SN Achary & AK Tyagi, Nanoparticles of dilute magnetic semiconductors for Spintronics: Synthesis and characterization, *Nat. Conf.* '*Recent Trends in Analytical Techniques*' @ DRM College, Davangere, India (Feb 19, 2011).

18. **J Manjanna**[*], G Dodbiba, T Kikuchi & T Fujita, Adsorbents (Fe-oxides) for molybdenium in nitric acid solution, *Nat. Symp. Frontier Areas in Chemical Science and Nanotechnology* @ Kuvempu Univ., India (May 1-2, 2010).

17. **J Manjanna**[*], S Kobayashi, Y Kamada, J Echigoya & H Kikuchi, Magnetic and structural properties of Iron-oxides obtained from different precursors.
Operational and Environmental Issues concerning use of Water as a Coolant in Power Plants and Industries @ IGCAR Campus, Kalpakkam, India (Dec 15-16, 2008).

16. **J Manjanna**[*], Y Kamada, S Kobayashi & H Kikuchi, Strain induced austenitic (γ) to martensitic (α') transformation in stainless steels: Anodic dissolution of γ over α' in a corrosive medium. *ib id* Received **best paper award.**

15. **J Manjanna**[*], S Kobayashi, Y Kamada & H Kikuchi. Anodic dissolution of austenite (γ) phase over α'-martensite in strain-induced stainless steel.
2nd DAE-BRNS International Symposium on Materials Chemistry @ Mumbai, India (Dec, 2008).

14. H Ito, **J Manjanna**, T Kozaki & S Sato. Preparation and characterization of Fe-montmorillonite.
52nd Annual meeting of The Clay Science Society of Japan @ Okinawa, Japan (Sept 3-5, 2008), B-29.

13. **J Manjanna**[*], S Kobayashi, Y Kamada & H Kikuchi. Magnetic properties of α-Fe_2O_3 obtained from different precursors. *The 32nd Annual Conference on MAGNETICS in Japan* (MSJ) @ Tohoku Gakuin Univ. Sendai, Japan (Sept, 2008) p. 247.

12. **J Manjanna**[*], Y Kamada, S Kobayashi, S Takahashi & H Kikuchi. Investigation of α'-martensite (FM)–austenite (AFM) exchange field at T <30 K in austenitic stainless steels. *The 32nd Annual Conference on MAGNETICS in Japan* (MSJ) @ Tohoku Gakuin Univ. Sendai, Japan (Sept, 2008) p. 200

11. Y Kamada, **J Manjanna**[*], T Nakamura, H Kikuchi & S Kobayashi. SUS 304 stainless steel – evaluation of sensitization by magnetic measurement. *2007 Annual Meeting of the Japan Institute of Metals (JIM)* @ Gifu University, Japan (Sept. **2007**) G147

10. H Ito, **J Manjanna**, T Kozaki & S Sato. Study on the hydraulic properties of Fe(III)-montmorillonite. *2007 Fall Meeting of the **A**tomic **E**nergy **S**ociety of **J**apan* @ Kitakyushu, Japan (Sept. **2007**) J33. p 789.

9. **J Manjanna**[*]**,** T Kozaki, N Kozai & S Sato. Stability of Fe(II)-montmorillonite and its application in the redox reaction. *2006 Fall Meeting of the AESJ* @ Hokkaido Uni., Sapporo, Japan (Sept. **2006**) B55. p. 753.

8. **J Manjanna**[*]**,** T Kozaki, N Kozai & S Sato. A new method of Fe(II)-montmorillonite preparation using Fe(II)-nitrilotriacetate. *2006 Annual Meeting of the AESJ* @ Oarai/ JAEA, Ibaraki, Japan (Mar. **2006**) B46. p. 535.

7. D Joseph, S Saxena, **J Manjanna** & G Venkateswaran. Characterization of *Cruds* formed under water cooled nuclear chemistry conditions using EDXRF. *21st Conf. of Indian Council of Chemists* @ Jabalbur University, India (Oct **2002**).

6. **J Manjanna** & G Venkateswaran. Understanding the kinetics of dissolution of Cr-substituted iron oxides through two rate laws. *Special Workshop on Water Chemistry* @ WSCL, IGCAR, Kalpakkam, India (May **2001**).

5. **J Manjanna**[*], G Venkateswaran BS Sherigara & PV Nayak. Preparation, optimization/ characterization and ion-exchange behavior of V(II)-formulations. *19th Conference of Indian Council of Chemists* @ Kuvempu Univ., Shimoga, India. (Nov **2000**) –received best paper cum **Young Scientist award.**

4. **J Manjanna** & G Venkateswaran. Synthesis and dissolution of Cr-substituted iron oxides. *12th Research Scholars Meet-2000* @ IIT Bombay, India (Mar. **2000**).

3. **J Manjanna**, G Venkateswaran, BS Sherigara & PV Nayak. Effect of Cr-substitution in hematites on their dissolution in vanadous based LOMI formulations. *National symposium on Water and Steam Chemistry in Power Plants and Industrial Units* @ BARC, Mumbai, India (Feb **2000**).

2. **J Manjanna** & G Venkateswaran. Influence of Cr-substitution in magnetites on their dissolution in vanadous based LOMI formulations and in CEA mixture. *National symposium on Water and Steam Chemistry in Power Plants and Industrial Units* @ BARC, Mumbai, India (Feb **2000**).

1. **J Manjanna**, G Venkateswaran, S Joseph, BS Sherigara & PV Nayak. Compositional characterization of chromium bearing iron oxides. *National Workshop on Micro Analytical Techniques* @ Kuvempu Univ., India. (Feb **1998**).

Technical Reports

6. G Venkateswaran, VS Tripati & **J Manjanna**. Synchronous effect of noble metal addition and metal ion passivation. *COSWAC News Letter*, 1 (3) **2004** @ Water & Steam Chemistry Div. BARC, Mumbai.

5. **J Manjanna** & G Venkateswaran. Alternative methods of dissolved oxygen control in steam generators. *COSWAC News Letter*, 1 (1) **2003** @ Water & Steam Chemistry Div. BARC, Mumbai.

4. V Balaji, BK Gokhale, SJ Keny, **J Manjanna**, AG Kumbhar & G Venkateswaran. Studies on the removal of iron turbidity from the active process water system samples of KAIGA generating station. DAE Committee on Water and Steam Chemistry (COSWAC) **2003**, BARC, Mumbai.

3. **J Manjanna** & G Venkateswaran. Preparation, optimization/ characterization and ion-exchange behaviour of V(II)-formulations. *BARC-Technical Report*, Issue No. 225; **2002,** Mumbai.

2. **J Manjanna**, R Latha, SV Narasimhan, M Subbaiyan & S Rajeswari. Steam Generator tube material compatibility studies with Amines/ Organic acids at high temperature. *Project Report submitted to BRNS/ DAE*, Govt. of India (Sept. **2001**).

1. **J Manjanna**, MP Yashoda, BS Sherigara, G Venkateswaran, PN Moorthy & PV Nayak. Electrochemical Preparation of Low oxidation state metal ions and their reactions relevance to Chemical decontamination of water-cooled nuclear reactors. *Project Report submitted to BRNS/ DAE*, Govt. of India (Sept. **2000**).

Invited Lectures or Resource Person

129. Resource person for the online Refresher Course on Chemistry of Environment by UGC-MMTTC @ Gorakhpur University (Oct 15, **2025**).
128. Invited Speaker on World Habitat Day @ The Institution of Engineers, Belagavi Local Centre & KLE Technological University, Belagavi (Oct 6, **2025**).
127. Inaugural address in National Workshop on NAAC New Guidelines on Binary Accreditation @ Maratha Mandal's Arts & Commerce College, Khanapur (Sept 20, **2025**).
126. Resource Person for a Special Lecture on Kittur Channamma, Aahalyabhai Holkar and Rani Abbakka @ SRFGC/RCU, Belagavi (Sept 16, **2025**).
125. Resource Person for a Special Lecture on Kittur Sangrama and Technology @ Govt. First Grade College, Nesargi (Sept 12, **2025**).
124. Resource person for Atal online FDP (Smart materials in Aerospace) @ AMC Engineering College, Bengaluru (Aug 21, **2025**).
123. Resource person for the online Interdisciplinary Refresher Course in Material Sciences by UGC-MMTTC @ Karnatak University, Dharwad (Aug 16, **2025**).
122. Judge for Poster Session during *J. ISAS* Meet-2 @ BJS College, Wagholi, Pune (Aug 2, **2025**).
121. Invited talk @ Nat. Conf. on Molecules and Materials for Building a better World @ Karnatak Univ. (July 18, **2025**).
120. Special lecture @ Dept. of Industrial Chemistry, Kuvempu University, Shankaraghatta (July 14, **2025**).
119. Special lecture @ Dept. of Chemistry, Tumkur University, Tumkur (July 2, **2025**).
118. Invited Talk on Applications of NANO materials @ Smt. ASM College for Women + Veerashaiva College, Ballari (April 23, **2025**).
117. Keynote speaker in State level seminar on IPR in 21st century: Challenges and opportunities @ Govt. First Grade College, Tarikere, Chikkamagaluru-Dist (March 27, **2025**).
116. Resource person for *Rasaayan Sangooshthi* @ IIT Dharwad (March 22, **2025**).
115. Resource person for Short-Term Course on Nanomaterials and Polymer Nanocomposites @ Central Institute of Petrochemicals Engineering and Technology, Kochi (Feb 17, **2025**, online).
114. Resource person for FDP on Research, Innovation and Startups in Chemistry and Materials Sciences @ Shivaji University, Kolhapur (March 5, **2025**).
113. Resource person on UGC Regulations 2018 @ State level workshop on Academic and Administrative Reforms @ RCU/ SRFGCC (Feb 22, **2025**).
112. Chief Guest for Induction Programme @ Dr. Ravi Patil College of Pharmacy, Belagavi (Feb 21, **2025**).
111. Invited Talk on Module-9: Environmental consciousness & Sustainable Development Goals @ Faculty Induction Programme (UGC-MMTTC) @ KUD (Feb 11, **2025**).
110. Resource Person for AICTE Sponsored ATAL Faculty Development Programme titled 'Recent Advances in Energy Harvesting and Sustainable Developments @ The National Institute of Engineering, Mysuru (Jan 7, **2025**).
109. Resource Person for RUSA Sponsored FDP on MATERIALS FOR LIFE for Faculties (UG/PG) @ MMTTC, University of Mysore, Mysuru (Dec 21, **2024**).
108. Guest Speaker on Material Chemistry and Nanotechnology @ PG Dept of Chemistry, Maharani Cluster University, Bangalore (Dec 4, **2024**).
107. Guest Lecture on Material Chemistry Aspects @ Chemical Society Inauguration at RLS Institute, Belagavi (Nov 21, **2024**).
106. Invited Talk @ Recent Advances in Chemistry and Nanomaterials (in association with ISAS Belagavi Chapter) @ VTU PG Centre Muddenhalli (Aug 5, **2024**).

105. xxx
104. Invited Talk @ Int. Analytical Science Congress (Title: *Smectite clay minerals in the geological disposal of high-level waste, and conventional applications as solid acid catalysts/ adsorbents*), VNIT Nagpur (Feb 24, **2024**).
103. Special talk @ Nat. Seminar on Nuclear Radioactive Isotopes for Peaceful purposes @ MS Irani Degree College, Gulberga (Jan 23, **2024**).
102. Chief Guest @ Samutkarsha IAS Valedictory @ PeopleTree College, Belagavi (Jan 21, **2024**).
101. Chief Guest @ 161st Swami Vivekananda Jayanthi @ Maratha Mandal's Arts, Commerce, Science and Home Science College, Belagavi (Jan 12, **2024**).
100. Invited Lecture @ Indian Council of Chemists - National Conference @ University of Kota (Dec 20-22, **2023**).
99. Invited Lecture @ National Conference on Physics of Materials & Materials based Device Fabrication @ Dept. of Physics, Shivaji University, Kolhapur (Nov 25 **2023**).
98. Resource Person @ FDP Workshop on *Skills for Quality Research & Publication* @ Davangere Univ in association with Karnataka Association for the Advancement of Science (KAAS), Bengaluru (Sept 7, **2023**). 1. Deriving Financial support for Research 2. Challenges & Opportunities in successful implementation of Research projects.
97. Resource Person @ National Seminar on Recent Advances in Chemical Biology and Material Engineering @ Veeerashaiva College, Ballari (Aug 4, **2023**).
96. Chief Guest & Resource person @ Faculty Development Programme on Enhancement of Research Capabilities and Publications @ KSRDPR University, Gadag (July 28, **2023**).
95. Invited Lecture @ Int. Conf. on Chemical Sciences, Christ Academy, Institute for Advanced Studies, Bangalore (June 22, **2023**).
94. Invited lecture @ Indian Analytical Science Congress, IMA Hall, Kochi (Mar 23-25, **2023**)
93. Resource person in National Conf. on Trends and Challenges in Chemistry @ Tuljaram Chaturchand College, Baramati, Maharashtra (Mar 11, **2023**).
92. Resource person in National Conf. on Emerging trends in Chemical Science Research @ Tumkur University (Mar 08, **2023**).
91. Chief Guest for National Science Day @ SGBIT, Belagavi (Feb 23, **2023**).
90. Resource person in Nat. Conf. on Recent Development in Chemical Sciences @ Sahyadri Science College, Shivamogga (Feb 21, **2023**).
89. Resource person in Int. Conf. on the Emerging Trends in English Literature, Science and Technology @ BLDEA's SB Arts and KCP Science College, Vijayapura (Feb 10, **2023**).
88. Resource person in Int. Webinar Series on Recent Trends and Advancements in Multidisciplinary Research @ Khaja Bandanawaz Univ., Kalaburagi (Feb 09, **2023**).
87. Resource person in Nat. Seminar on Emerging Trends in Chemistry @ GSS College, Belagavi (Jan 31, **2023**).
86. Resource person in the KSTA sponsored Nat. Conf. on Through the Instruments @ KLEs SSMS Arts, Science and Commerce College, Athani (Dec 22, **2022**).
85. Keynote Speaker, Nat. Conf. Advances in Analytical Techniques for Materials and Bio-Medical Application @ RCU Belagavi (Dec 15, **2022**).
84. Resource person in the State Level Seminar on Nanomaterials: Opportunities and Current trend @ ARS Inamdar Arts, Science & Commerce College for Women, Vijayapur (July 28, **2022**).
83. Resource person in the KSTA sponsored Nat. Conf. on Recent Advances in Chemical Sciences @ JSS Arts, Science and Commerce College, Gokak (July 23, **2022**).
82. Special Lecture on Waste management and Resources Recycling @ MM College of Education, Davangere (May 21, **2022**).
81. Key note address in Nat. Seminar on Advances in Chemistry and Materials Science @ ND Patil Mahavidyalaya, Malkapur, Maharashtra (May 28, 2**022**).
80. Resource person in Nat. Symposium on Horizons in Nanotechnology @ LBS College of Arts, Science & Commerce, Satara, Maharashtra (April 5, **2022**).
79. Resource person for *Short Term Course* in Renewable Energy (online) @ UGC-HRDC, Osmania University (Mar 10, **2022**).
78. Invited Speaker in the Orientation Programme @ Dept. of Botany, GSS College, Belagavi (Jan x, **2022**).

77. Invited Speaker – Int. Virtual Conf. on ADVANCES IN CERAMIC & CEMENT TECHNOLOGIES: Materials & manufacturing during (Dec 14, **2021**) @ Indian Ceramic Society, Karnataka Chapter.
76. Resource person in a webinar @ Sophisticated Analytical Instruments Facility (SAIF), Karnatak University, Dharwad (Nov 20, **2021**).
75. Invited Speaker - Scope for Resources Recycling & Materials for Energy Devices @ IEEE Bangalore Technology Conclave (BTC 2.0) on Clean Technologies for a Sustainable World (Oct 30, **2021**) IISc., Bangalore.
74. Recent Advances in Physics for Inter Disciplinary Development @ SJPVV College and P.G. Centre, Harihar (Sept 30, **2021**).
73. Resource person for 13th Refresher Course in Material Science (online) @ UGC-HRDC, Univ of Mysore (Sept 23, **2021**) – two sessions.
72. Resources Recycling and Application of Nanomaterials for Waste management @ Nat. Webinar by Dept. of Chemistry, Dayananda Sagar College of Engineering, Bangalore (Sept 18, **2021**).
70. National Webinar on Nanomaterials for Energy Devices-Environmental Remediation and Biomedical Applications @ Dept. of Chemistry, Bapuji Institute of Engineering & Technology, Davangere (Aug 21, **2021**).
71. Resource person in ATAL FDP on Fabrication and Characterization of Thin Films for Future Technological Applications [Topic: Heterostructure thin-films and other Nanomaterials for Gas sensor applications] @ Center for Nanotechnology, Dept. of Mechanical Eng., National Institute of Engineering (NIE) Mysuru (Aug 20, **2021**)
69. Resource person [National Webinar on Recovery of valuable metals from spent Li-ion battery] @ Indian Society of Analytical Scientists (March 6, **2021**).
68. Resource person @ National E-Workshop on Advanced Materials: Properties and Applications @ Dept. of Chemistry, NITK, Surathkal (March 4, **2021**).
67. Resource person and Chief Guest during CBCS workshop for Faculty members of Science subjects in Degree Colleges of RCU @ KLE's G.I.Bagewadi Arts, Science and Commerce College, Nippani (x, **2021**).
66. Resource person @ National Seminar on Paper writing & Research Report on Innovation @ Channabasaveshwara Institute of Technology, Gubbi, Tumkur (Dec 29, **2020**).
65. Resource person @ Faculty Development Programme on Advances in the synthesis of Nanomaterials and their applications in the field of Science and Engineering @ Adichunchanagiri Institute of Technology, Chikkamagaluru (Oct 19, **2020**).
64. Resource person @ International Webinar by Indian Ceramic Society - Karnataka Chapter [Title: Smectite Clay minerals and their Applications] (Aug 8, **2020**).
63. Resource person @ National Webinar on Frontiers in Chemistry @ KLE's JT Arts, Science and Commerce College, Gadag- Betageri (July 15, **2020**)
62. Resource person @ Special Lecture on Nanomaterials and Nanotechnology on occasion of National Science Day @ Davangere University (Mar 03, **2020**)
61. Resource person @ State Level Seminar on Nanotechnology – Today's Need @ MASC College, Haunsbhavi, Haveri-Dist., (Mar 02, **2020**)
60. Keynote Speaker @ Nat. Conf. on Concepts of Green Chemistry & Applications of Spectroscopic methods in CHEMISTRY @ G.I. Bagewadi Arts, Sci & Commerce College, Nippani (Feb 14, **2020**).
59. Resource person in the Nat. Conf. on Emerging trends in Chemical and Material Sciences @ Shivaji University, Kolhapur. (Feb 7, **2020**).
58. Resource person for 11th Refresher Course in Material Science @ UGC-HRDC, Mysore Univ. (Feb 4-5, **2020**).
57. Invited Speaker on 'Austenitic to martensitic phase transformation in stainless steels due to strain-induced deformation' @ Int. Conf. on Advances in Materials, Ceramics & Engineering Sciences @ Dayananda Sagar College of Engineering, Bangalore (Jan 18, **2020**).
56. Plenary Lecture on 'Backend Technology for Li-ion Battery: Recovery of valuable metals' @ *Nat. Conf. Advanced Li-ion Batteries: Science and Technology* @ IISc Campus, Bangalore (Dec 27-28, **2019**).

55. Invited Speaker on 'Resources recycling through urban mining: Recovery of valuable metals from e-waste by hydrometallurgical method *@ Int. Conf. on Materials for Environment, Sustainable Society & Global Empowerment* @ VTU Muddenahalli-Campus, Chikkaballabur 562101 (Dec 19-20, **2019**).
54. Invited Speaker on 'Environmentally benign hydrometallurgical process to recover Co and Li from spent Li-ion batteries' *@ Int. Conf. on Nano Engineering Science and Research Advances* @ VTU Muddenahalli-Campus, Chikkaballapur 562101, India (Sept 9, **2019**).
53. Invited Lecture on (Nano)materials for Energy devices, Environmental remediation and Biomedical applications *@ National Conf. on Global opportunities in Chemical, Biological & Material Sciences* **@** SNJB's K.K.H.A. Arts, S.M.G.L. Commerce & S.P.H.J. Science College, Chandwad., Nashik-Dist. (Dec 27-28, **2018).**
52. Invited Lecture on 'Recovery of Co and Li from cathode materials of spent Li-ion batteries towards the resources recycling' *@ 7th Interdisciplinary Symposium on Materials Chemistry*, DAE Convention Centre, Mumbai (Dec 4-8, **2018**).
51. Invited Lecture on 'Modified clay minerals (montmorillonite) for environmental remediation and catalytic applications' *@ Int. Conf. on Advanced Ceramic and Nanomaterials for Sustainable Development*, Christ University, Bangalore (Sept 19-21, **2018**).
50. Resource person @ National Seminar on Current trends in Nanotechnology @ JNN College of Engineering, Shivamogga (May 14, **2018**).
49. Chief Guest & Invited speaker @ 2018 National Science Day celebration @ Field Marshal K M Cariappa College, Madikeri. *Topic*: Science & Technology for Sustainable Development (Feb 28, **2018**).
48. Invited speaker on Materials Chemistry @ National Seminar on Frontiers of Science - Physics, Chemistry, Mathematics and Biological Science. Jagadguru Thontadarya College, Gadag-Betageri (Feb 17, **2018**).
47. Resource person for Refresher Course in Chemistry @ UGC-HRDC, Mysore Univ. (Feb 9, **2018**).
46. Resource person for Refresher Course in Chemistry @ UGC-HRDC, Goa Univ. (Dec 6-7, **2017**).
45. Resource person at the District level celebration of the 25th National Children's Science Congress @ SS Samudhaya Bhavan, Davangere (Nov. 25, **2017**).
44. Invited speaker & Session Chair, Int. Conf. on Emerging Trends in Chemical Sciences @ Manipal Institute of Technology, Manipal University, Manipal (Sept. 15, **2017**).
43. Invited talk during UGC Nat. Conference on the 'Recent Advances in Nanoscience and Technology' @ Govt. Science College, Chitradurga (April. 21-22, **2017**).
42. Invited talk during Nat. Seminar on the 'Scope of Material Science' @ GSS College, Belagavi (Mar. 24-25, **2017**).
41. Invited talk on 'Consequences of austenitic to martensitic phase transformation in superior stainless steels', *Int. Conf. on Advances in Science and Engineering* @ Regent's International College, **Bangkok** (Jan 20 – 22, **2017**).
40. Special Lecture on '*Materials for Energy devices*' @ Govt. First Grade College, Holenarasipura, Hasan-Dist (Nov 12, **2016**).
39. Invited talk on 'Mossbauer & ESR Spectroscopy' in Nat. *Seminar on Recent Advances in Chemical Sciences* @ Maratha Mandal College, Belagavi (Nov 10, **2016**).
38. Resource person Nat. Conf. on Recent trends & Future Applications of Chemical Sciences @ Davangere University, Davangere (Nov. 05, **2016**).
37. Chief Guest & Keynote speaker during the Inauguration of '*Madam Curie Study Circle*' @ Karnatak Science College, Dharwad (Sept 17, **2016**).
36. Resource person in TEQIP-II sponsored Faculty Development Programme on Nanomaterials & Nanocomposites @ M S Ramaiah Institute of Technology, Bangalore (June 21, **2016**).
35. Chief Guest and Speaker in Nat. Seminar on Environmental Science & Nanotechnology @ SJVP College, Davangere Univ., Harihar (March 10, **2016**).
34. Resource person in Refresher Course in Material Science @ UGC-HRD Centre, University of Mysore (March 02, **2016**).

33. Chief Guest & Keynote Speaker @ 14th Annual Convention of 'Association of Chemistry Teachers' @ Govt. Arts, Sci and Commerce College, Sakhali-Goa (Feb 24, **2016**).
32. Resource person in UGC-sponsored Refresher Course in Chemistry @ Shivaji University, Kolhapur (Nov 26, **2015**)
31. Special lecture to Faculty members and Researchers on 'Patent process & IPR issues in India' @ VTU-campus, Muddenahalli (Sept 10, **2015**).
30. Resource person in Faculty Development Programme on Nanoscience and Nanotechnology @ Channabasaveshwara Institute of Technology, Gubbi, Tumkur-Dist. (July 14, **2015**).
29. Invited lecture titled 'Resources Recycling and Waste Management including High Level Nuclear Waste Disposal' in the Nat. Conf. on Global Waste Management @ KLE's G I Bagewadi Arts, Science, Commerce & PG College, Nippani (Nov 19-20, **2014**).
28. Delivered a talk on 'Material Chemistry & Engineering aspects in Nuclear Reactors' during National Seminar on Nuclear Sciences & Indian Nuclear Energy Programme @ Rani Channamma University, Belagavi (Nov 28-29, **2014**).
27. Resource person in a Workshop 'New Vistas in Chemical and Biological Sciences @ Swamy Vivekananda Vidyasamsthe, Kumadvathi First Grade College, Shikaripura- 577427, Shimoga (Aug 2, **2014**) organized by Indian Science Academies.
26. Resource person in a Workshop on Nanoscience and Engineering under TECQIP programme @ Sri Siddhartha Institute of Technology, Tumkur (March 25, **2014**).
25. Special Lectures (8) on biofunctionalization of nanomaterials and targeted drug delivery to PG (Pharmaceutical Chemistry) students of Kuvempu Univ @ PG Centre, Kadur (March 24-25, **2014**).
24. Chief Guest & Invited speaker in a State level Workshop on Nanoscience & LCD Technology @ K.L.E. Society's S.S.M.S College, Athani, Belgaum-Dist. (Feb 14, **2014**).
23. Resource person for Refresher Course in Material Science @ UGC-Academic Staff College, Mysore University (Oct 31, **2013**).
22. Nanomaterials for Energy Devices in a National seminar on Nanotechnology for Energy, Environment and Health @ The Institution of Engineers, Mysore (Oct 19-20, **2013**).
21. Nanomaterials for Spintronic Devices in a National workshop on Emerging trends in Nano-Electronics and Device packing @ The National Institute of Engineering, Mysore (Sept 30 – Oct 01, **2013**).
20. Diffusion of radionuclides in altered clay mineral relevant to geological disposal of nuclear waste @ Radioanalytical Chemistry Division, BARC, Mumbai (July 26, **2013**).
19. Special lectures for select BSc students (100 scholarship) at Karnatak University, Dharwad (May 31, **2013**).
18. Resource person for Refresher Course in Basic Science @ UGC-Academic Staff College, Karnatak University, Dharwad (Feb 15-16, **2013**).
17 Biofunctionalization of Inorganic/Magnetic Nanoparticles for Biomedical applications @ Green Nanotechnology Workshop, VTU Belgaum (Nov 26-27, **2012**).
16 Research and Funding Opportunities in India and Abroad. National workshop on Impact Research & Funding Opportunities @ Dept of Pharmaceutical and Nano-chemistry, HKEL-MTR Institute of Pharmaceutical Sciences, Gulbarga (Sept 01, **2012**).
15. Resource person for Faculty Development Programme @ Visvesvaraya Technological University, Belgaum (April 12, **2012**).
14. Special lectures @ Dept of Chemistry, Davangere University (Mar. 31 & Apr. 1, **2012**).
13. Special lectures @ Dept of Chemistry, Sahyadri Science College, Shimoga (Mar 29-30, **2012**).
12. Basics of Nanoscience & Nanotechnology, National Seminar on Recent Trends in *Nanotechnology* @ Bharathi College/ Bangalore Univ., Bharathinagar (K.M. Doddi), Mandya (Feb 25, **2012**).
11. **B**asics of Nanomaterials @ Dept of Chemistry under Lecture series of Chemical Society, Mangalore Univ., Mangalore (Feb 24, **2012**).
10. Basics of Nanomaterials & Carrier counseling for Science students @ SMBR Degree College (Davangere Univ.) / Science forum, Sirigere (Feb 03, **2012**).

9. Basics of Nanoscience & Nanotechnology, State Level Seminar on *Nanotechnology – An advanced technology for development* @ ADB First Grade College/ Davangere Univ., Harapanahalli (Dec 30, **2011**).
8. Surface functionalization of magnetic nanoparticles, *Nat. Sem. 'Nanotechnology for Superior Drug Delivery Systems* @ Sree Siddaganga College of Pharmacy, Tumkur, India (Oct 1-2, **2011**).
7. Synthesis, characterization and applications of nanomaterials, *Nat. Sem. Emerging trends in Nanoparticle Characterization techniques – Need for harmonization*, Manipal Univ., Manipal (May 2-4, **2010**).
6. Scope & future of Nanoscience and Nanotechnology, *National Workshop on Usage of Instruments for Nanotechnology Applications* @ Kuvempu University (April 25, **2011**).
5. Alteration of clay mineral (montmorillonite) due to Fe corrosion in the geological disposal of nuclear waste @ BARC, Mumbai (July 13, **2007**).
4. Fe(II)-montmorillonite: Preparation, characterization, application including intercalation reactions @ Sapporo Conference, Hokkaido Univ., Japan (Mar. 6-7, **200**6).
3. Corrosion behavior of Nuclear materials @ Hokkaido Univ. Japan (June **2005**).
2. Interaction of iron corrosion products with bentonite/ momtmorillonite clay @ *Research Co-ordination Meeting* of the specialists on 'Nuclear Waste Disposal Research' @ Hokkaido Univ., Japan (Mar. **2005**).
1. Atomic energy prospective in India @ Graduate School of Engineering, Hokkaido Univ., Sapporo, Japan (Jan **2004**) & Also at Iwate Univ., Morioka, Japan (Mar 2008).

Conferences/ Symposium attended

39. Internationalisation Action Planning Workshop – Karnataka (KSHEC- British Council India) (Jan 8, **2025**) ⊥ The online Internationalisation Train the Trainer Workshop (online, Jan 15, **2025**).
38. Internal Officers Capacity Building Workshop by KSHEC- British Council India @ Bangalore (Dec 3-6, **2024**)
37. Strengthening Capacity for Internationalisation in Indian Higher Education Institutions: Senior Leaders' Meeting (online, Nov 19, **2024**)
36. Workshop on Personality Development/ Self-Evaluation by DISHA Bharath @ RCU, Belagavi (Nov 20, **2024**).
35. Workshop on 'Tomorrow Today in Research: Empowering Research Management Strategies' organized by Elsevier @ MAHE, Bangalore (May 20, **2024**).
34. Workshop on 'Navigating Youth towards Amrutha Kal: Knowledge transfer through Technology and Skill development' organized by RCU @ IMER, Belagavi (May 17, **2024**).
33. National Webinar on 'Understanding Authentic Certification for ISO 9001 & Green Practices' organized by Association of Indian Universities (AIU) on Nov 9, **2023**.
32. A special QuanTalks by Prof. Serge Haroche, French Nobel Laureate @ IISc., Bangalore Quantum Research Park (QuRP) at the Foundation for Science Innovation and Development (FSID), IISc, with the support from Karnataka Innovation and Technology Society (KITS), Government of Karnataka (Feb 11, **2023**).
31. Workshop on Institutional Development Plan (IDP) for Leadership of Karnataka State Universities @ KSHEC, Bangalore (Dec 30, **2022**).
30. GYANOTSAV-2079: Self Reliant Bharat Through Education @ ICAR Pusa Campus, New Delhi (Nov 17-19, **2022**).
29. Nat. Conf. on NEP Readiness: Scope and Challenges for Transforming Higher Education @ Ramaiah Institute of Management, Bangalore (Sept 29-30, **2022**).
29. Asian Summit on Education & Skills ⊥ DIDAC India 2022 @ Bangaluru International Exhibition Centre (Sept 21-23, **2022**).

28. Discussion meeting on the Role of Outcome Based Education in NEP implementation @ Karnataka State Higher Education Academy, Dharwad (July 16, **2022**).
27. Annual Leadership Summit 2022 organized by Indo Universal Collaboration for Engineering Education @ International Center in Goa (July 8-10, **2022**).
26. Pre-Event on AgriTech & FoodTech (TECHBHARAT-2022) organized by Laghu Udyog Bharati, Karnataka @ VTU Auditorium, Belagavi (Jan 5, **2022**).
25. Weekly National Webinars organized by Indian Society of Analytical Scientists (May 2021-Jan **2022**).
24. One day Workshop on 'An Insight Into Intellectual Property Rights (IPR) and patent Filing Process' @ IQAC, Rani Channamma University, Belagavi (Dec 10, **2021**).
23. Nobel Laureate S & T webinar Series (11th India-Japan Science and Technology webinar) [Dec 6-7, **2021**]
22. STEP-2021 organized by Prabuddha Bharata @ VTU Auditorium, Belagavi (Dec 4-5, **2021**).
21. One day Workshop on NAAC Accreditation Process: A Road Map @ IQAC, Rani Channamma University, Belagavi (Feb 3, **2021**).
20. One day Workshop on Revised Accreditation Framework (of NAAC): An Overview@ RCU, Belagavi (Jan 24, **2020**).
19. One day Workshop on Reference Management @ IQAC, Rani Channamma University, Belagavi (Jan 6, **2021**).
18. Workshop on Frontier areas in Physical Sciences @ VGST-KSTePS & RCU, Belagavi (Jan 17, **2020**).
17. **8th Bangalore India Nano** @ Lalit Ashok Hotel, Bangalore (March 3-5, **2016**).
16. Symposium on Water Chemistry and Corrosion in Nuclear Power Plants in Asia @ Anupuram, Kalpakkam (Sept 2-4, **2015**).
15. **7th Bangalore India Nano** @ Lalit Ashok Hotel, Bangalore (Dec 4-6, **2014**).
14. Workshop on Innovative Teaching and Research at the Secondary Schools and their Integration with Higher Educational Institutes @ Rani Channamma University, Belgaum (Aug 5-7, **2014**) in association with JSS Foundation for Science and Society, Bangalore.
13. Workshop on Issues & Challenges in Implementation of School Framework @ Rani Channamma University, Belgaum (March 27-28, **2014**).
12. Faculty Development Workshop & Orientation Programme by PG Teachers Association @ Rani Channamma University, Belgaum (Oct 24, **2013**).
11. **6th Bangalore India Nano** @ Lalit Ashok Hotel, Bangalore (Dec 4-6, **2013**).
10. Workshop for PG Chemistry Teachers of Rani Channamma University @ GSS College, Belgaum (Sept 17, **2013**).
9. Int. Conf. on **Materials for Energy and Nano Convergence** @ Hindustan University, Chennai (July 4-6, **2013**).
8. Orientation Programme on **E-Tendering/ E-Procurement** Procedure @ M.S. Building, Bangalore organized by VGST, Govt of Karnataka (March 17, **2012**).
7. **4th Bangalore Nano**: Nanoscience and Nanotechnology at the cutting edge @ Lalit Ashok Hotel, Bangalore (Dec 7-9, 2011).
6. National Seminar on **Nuclear Energy & Environment** @ Kuvempu Univ., Shakaraghatta, India (Nov 10-11, 2011).
5. Computer Hardware, Open Office and Linux for Research & Networking @ Kuvempu Univ., Shakaraghatta, India (July 26-27, 2011).
4. Nat. Seminar on **Frontiers of Nanotechnology** @ Karnataka State Higher Education Council, Bangalore (May 31, 2011).
3. Inter University Subject Based Conferences (IUSBC) in **Material Science** @ Mangalore Univ. (May 27-28, 2011) – organized by Vision Group of Science and Technology, DST, Govt of Karnataka.
2. **3rd Bangalore Nano**: Frontiers of Nanotechnology: Impact on India @ Lalit Ashok Hotel, Bangalore (Dec 8-9, **2010**).
1. National Seminar on **Environment & Pollution** Awareness @ Sir M V Institute of Technology, Bangalore (June 18, 2004).

Curricular/ Co-curricular assignments

- Finalized Memorandum of Understanding (MoU) with ICMR-National Institute of Traditional Medicine, Belagavi (April 23, **2021**) & S. Nijalingappa Sugar Institute, College of B.Sc. (Sugar Science & Technology), Belagavi (Dec 8, **2021**).
- Scrutinized > 100 CAS Applications in RCU and its affiliated Colleges.
- DST-FIST-Level-1 proposal (Nanomaterials for Energy devices, Environmental remediation & Biomedical applications) presentation under *Chemical Sciences* @ Indian Academy of Sciences, Bangaluru (Sept 19, **2016**).
- RCU/KSHEC nomine for presenting a proposal (Smart Materials for Energy devices and Environmental remediation) under RUSA Research & Innovation @ RUSA Resource Centre, MHRD, New Delhi (Nov 20-21, **2015**).
- Executive Member of Rani Channamma Univ. Teachers Association (Since Oct 2015-2018).
- Chairman, PG Vigilance Squad during RCU Examinations (B.Ed.) held in May/June-2014.
- IEEE observer for 3rd Int. Conf. on Materials for Energy and Nano Convergence @ Hindustan University, Chennai (4-6 July 2013).
- Selection committee (Judge) in the State-level Science Exhibition for high-school students held at Chitradurga (31 Dec 2012 to 02 Jan 2013 & July 30-31, 2013).
- Member of Local College affiliation Committee (LIC) of the Kuvempu Univ. (Jan 2012 & Jan 2013) & Rani Channamma Univ. (Jan 2014, 2015, 2016, 2017, 2018 & 2019).
- Executive Member of Kuvempu University Teachers Association (One Yr term w.e.f 25.04.2013).
- Reviewed manuscripts submitted to *Waste Management*, *Journal of Material Science*, *Applied Clay Science*, *Applied Geochemistry*, *NanoBio Systems*, *Journal of Cluster Science*, *Material Letters*, *RSC Advances*, *Physical Chemistry and Chemical Physics*, *Journal of Alloys and Compounds*, *Hydrometallurgy*, etc.
- Evaluated Research project proposal to BRNS/DAE, **2013.**

Referees

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