

CURRICULUM VITAE

Dr. J. MANJANNA

Professor & Chairman

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

B.Sc. 1993: Physics-Chemistry-Mathematics } www.kuvempu.ac.in

Kuvempu University

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		23/01/2010–10/09/2013	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 Japan Science and Technology project.
	2.5 yr	12/2006 – 03/2009	Iwate University, Morioka, Japan
	2.0 yr	10/2004 – 11/2006	Hokkaido University, Sapporo, Japan Japan Society for the Promotion of Science.
	0.5 yr	03/2004 – 9/2004	Indian Institute of Science, Bangalore Research Associate under DST project with Prof. J Gopalakrishnan @ SSCU
	2.0 yr	01/2002 – 03/2004	Bhabha Atomic Research Centre, Mumbai KS Krishnan Research Associate (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: D M Chethana, M.Tech., [Ph.D]

Children: Son (17 Yr) & daughter (9 Yr)

Languages known Kannada & **English**

Permanent address J. Manjanna s/o Jayappa
HG halli, Karehalli-Post, Hosadurga-Tq.
Chitradurga-Dist, Karnataka 577 533.

Research interests (Material Chemistry & Nanoscience/ Nanotechnology)

- 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 deformations, austenitic stainless steels ($\gamma \rightarrow \alpha'$ transformations).
- Electrochemistry and corrosion.
- Redox systems: Dissolution and complexation of metal oxides in aqueous medium relevant to chemical decontamination (de-scaling) of structural surfaces.

Awards

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	: 03
Book chapter	: 01
SCI Journals	: 60
Other Journals	: 18
Int. Conference	: 32
Nat. Conference	: 43
Technical Reports	: 06
Invited talks	: 53

<i>As of Dec 2019</i>	
Citations	1600
h-index	25
i10-index	40

Research supervision

M.Sc. Projects	25 completed
M.Tech. Projects	25 completed
Ph.D. students	04 completed & 07 ongoing (including <i>Co-supervision</i>)

Membership in Professional Bodies

- Indian Association for Radiation Protection (IARP) - Life Member (since 2015)
- Indian Science Congress Association, Kolkatta – Life Member (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**, Dept. of Chemistry, Rani Channamma Univ. (18/09/2015 to 17/09/2017 & 18/09/2019 to till date).
- 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.
- Chairman/ Member, Board of Studies @ Dept. of Chemistry, Rani Channamma Univ., @ Dept of Nanotechnology, VTU-Belgaum @ Dept of Polymer Sci., Mysore Univ.
- BoE Member, Dept. of Chemistry @ Rani Channamma Univ., Kuvempu Univ., Gulberga Univ., Karnata State Women's Univ., VSK Univ-Bellary & Dept of Polymer Sci., Mysore Univ., & Dept of Nanotechnology, VTU-Belgaum.
- BoE Chairman, Dept of Pharmaceutical Chemistry @ Karnataka State Womens Univ., Vijayapura (Aug 2015–Aug 2016) & Dept. of Chemistry @ Davangere Univ. (Sept 2019)
- Coordinator, Centre for Innovations in Teaching and Research @ Rani Channamma University (Aug 2014- till date).
- Coordinator, OBC and Minorities Cell @ Rani Channamma University (since June 2018).
- 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. Gururaj Hosamani	Dept. of Electronic Science Kuvempu Univ.	Study on transition metal ion-doped dilute magnetic semiconductors for spintronics device	Co-guide (Registered in 2013)
6	Mr. Anand Kabadagi	Dept. of Chemistry Rani Channamma Univ.	Clay mineral based inorganic–organic hybrid materials for sorption and catalysis	Guide (Registered in 2015)
7	Mr. Santosh Chikkmath	Dept. of Chemistry RCU	Investigation on alteration of clay mineral relevant to geological waste disposal.	Guide (Registered in 2015)
8	Mr.	Dept. of Chemistry	Technologically important metal oxide	Guide

	Naeemakhtar Momin	RCU	nano particles for energy devices.	(Registered in 2015)
9	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 (Registered in 2015)
10	Ms. R. Chaithra	Dept. of Biochemistry Kuvempu Univ.	Metal based folate conjugated nanoparticles: Synthesis, Characterization and their cytotoxicity in cancer cells.	Co-guide (Registered in 2015)

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	Ongoing (2015-19)
DST-FIST Level-1 (Coordinator)	Rs. 1,23,50,000/-	DST, Govt. of India	Ongoing (2017-21)
Resources Recycling through Urban mining using chemical methods	Rs. 1,00,000/-	RCU	Ongoing (2017-19)
Resources recycling through urban mining for sustained development : Hydrometallurgical approach	60,00,000/-	VGST-CESEM, GoK	Ongoing (2019-22)

National/International seminars/conferences organized:

1. National Seminar on *Periodic Properties of the Elements* (on the occasion of IYPT) @ RCU, Belagavi (Oct 5, 2019) as **Convener**.
2. National Seminar on NUCLEAR CHEMISTRY @ RCU, Belagavi (March 19, 2018) as **Convener**.
3. National Symposium on UNIVERSITY-INDUSTRY Interaction to promote Technology Transfer & Entrepreneurship @ RCU, Belagavi (Oct 14, 2017) as **Convener**
4. DAE-BRNS-IANCAS National Workshop on *Radiochemistry and Applications of Radioisotopes* @ RCU, Belagavi (Sept 19-24, 2016) as **Convener**.
5. 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.
6. State level symposium on *Nuclear Energy for better Life & Environment* @ RCU, Belagavi (Sept 28, 2015) as **Coordinator**.
7. National Seminar on *Nuclear Sciences & Indian Nuclear Energy Programme* @ RCU, Belagavi (Nov 28-29, 2014) as **Coordinator**.
8. Int. Conf. on *Recent Advances in Materials Science* @ Karnataka State Higher Education Council, Bangalore (Nov 6-8, 2012) - Organizing committee member.
9. National seminar on *Progress in Nanoscience & Technology* @ Kuvempu Univ., (May 5-6, 2012) as **Convener**.
10. Group leader for *Science Exhibition* by Dept of Nanoscience & Nanotechnology (M.Tech) as part of Silver Jubilee events @ Kuvempu Univ. (Feb 16-19, 2012).

11. National Workshop on *Elements of Nanoscience & Technology* @ Kuvempu Univ. (Oct 12-13, **2011**) as **Convener**.
12. National Workshop on *Usage of Instruments for Nanotechnology Applications* @ Kuvempu Univ. (April 25, **2011**) as **Convener**.
13. National Symposium on *Frontier areas in Chemical Science & Nanotechnology* @ Kuvempu Univ. (May 1 & 2, **2010**) - Organizing committee member.

Local Seminars Organized:

1. Importance of Millets in Diet: *A Scientific Understanding* by **Dr. Khadar Valli** on 21-11-2016 @ Kuvempu Hall, RCUB.
2. Vedic Astrology as a tool for early Detection of Cancer by **Mr. MG Kulkarni** on 21-11-2016 @ Kuvempu Hall, RCUB.
3. Radiation & Photochemistry by **Prof (Dr). DB. Naik** on 25-11-2016 @ Dept. of Chemistry, RCUB.
4. Water Management Issues on the occasion of *World Water Day-2017* by **Prof. SG Joshi** on 31-03-2017 @ Kuvempu Hall, RCUB.
5. 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, University of Hyderabad (Mar 04-31, **2011**).

List of Publications

Patents

1. **J. Manjanna**, T. Kozaki, N. Kozai & S. Sato.
Method for Preparing Iron (II) type Smectite using Iron(II) nitrilotriacetate solution.
Japanese Patent JP-2008-273747
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
3. **J. Manjanna**
Organo-modified clay minerals by solid state *in-situ* interlayer complexation of 1,10-phenanthroline with Fe-montmorillonite
Indian Patent 4611/CHE/2015 A
The Patent Office Journal 38 (**2015**) 53114 published on 18/09/2015

Book Chapters

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 ISBN: 978-93-82694-08-3
 (2014) (Eds. Baldev Raj, S.C. Sharma & W. Cantwell) @ *Tumkur University*, India. pp 39-46.

Peer-reviewed (SCI) Journals

Impact Factor

63. M. Chiba, S Kobayashi, K Noguchi, T Murakami, J. Szpunar & **J Manjanna**, Magnetic vortex formation in hollow Fe₃O₄ submicron particles studied using first-order reversal curves.
J. Magnetism and Magnetic Materials ISSN 0304-8853 2.683
62. S. Chikkamath, MA Patel, AS Kar, BS Tomar & **J Manjanna**^{*}, ¹³⁷Cs sorption on Fe(II)-montmorillonite: Modeling and comparison with Na-and Fe(III)-montmorillonite.
Applied Clay Science xxx (2020) xxx-xxx ISSN 0169-1317 **3.618**
61. A Kabadagi, S Chikkamath, S. Kobayashi & **J Manjanna**^{*}, Organo-modified Fe-montmorillonite solid acid catalysts for reduction of nitroarenes and Beginelli reactions.
Applied Clay Science xxx (2020) xxx-xxx ISSN 0169-1317 **3.618**
60. S. Chikkamath, MA Patel, AS Kar, S Kumar, BS Tomar & **J Manjanna**^{*}, Diffusion of ²²Na, ¹³⁷Cs, ¹³³Ba, ¹⁵²⁺¹⁵⁴Eu and ¹³¹I in compacted, water-saturated Fe-montmorillonite
Applied Clay Science xxx (2020) xxx-xxx ISSN 0169-1317 **3.618**
59. D. Patil, A. Kabadagi, S. Chikkamath & **J. Manjanna**^{*} Selective leaching of Li from LiCoO₂ by oxidation of Co(III) to Co(IV) and adsorption of Li on different nanomaterials.
Waste Management (2020) xx-xx ISSN: 0304-386X **3.300**
58. D. Patil, S. Chikkamath, S. Keny, VS Tripathi & **J. Manjanna**^{*}. Rapid dissolution and recovery of Li and Co from spent LiCoO₂ using mild organic acids under microwave irradiation.
J Environmental Management 256 (2020) 10995 ISSN: 0301-4797 **4.865**
57. M. Chiba, S Kobayashi, T Murakami, **J Manjanna** & J. Szpunar. Temperature dependence of magnetic first-order-reversal-curves for hollow Fe₃O₄ submicron particles.
AIP Advances 9 (2019) 035235 E-ISSN: 2158-3226 1.579
56. S Chikkamath, DM Patil, AS Kabadagi, VS Tripathi, AS Kar & **J Manjanna**^{*}, Recovery of molybdenum by solvent extraction from simulated high level liquid waste.
J. Radioanal Nucl. Chem. 321(3) (2019) 1027-1034 ISSN: 1588-2780 1.186
55. S Chikkamath, MA Patel, AS Kar, V Raut, BS Tomar & **J Manjanna**^{*} Sorption of Cs(I) on Fe-montmorillonite relevant to geological disposal of HLW.
Radiochimica Acta 107(5) (2019) 387-396 ISSN 2193-3405 **1.202**

54. S Chikkamath, MA Patel, AS Kar, V Raut, BS Tomar & **J Manjanna***, Sorption of Eu(III) on Fe-montmorillonite relevant to geological disposal of HLW.
Radiochimica Acta 106(12) (2018) 971-983 ISSN 2193-3405 **1.202**
53. A Kabadagi, S Chikkamath, **J Manjanna*** & S. Kobayashi, In-situ complexation of o-phenanthroline in the interlayer of Fe(II)-montmorillonite.
Applied Clay Science 165 (2018) 148-154 ISSN 0169-1317 **3.618**
52. GP Nayaka, Y. Zhang, P. Dong, D. Wang, KV Pai, **J Manjanna**, G Santhosh, J. Duan, Z. Zhou & J. Xiao
Effective and environmentally friendly recycling process designed for LiCoO₂ cathode powders of spent Li-ion batteries using mixture of mild organic acids.
Waste Management 78 (2018) 51-57 ISSN: 0956-053X **3.829**
51. T Sato, K Nagaoka, S Kobayashi, **J Manjanna** & T Murakami.
Temperature dependence of magnetic hysteresis scaling for cubic Fe₃O₄ nanoparticles.
AIP Advances 7 (2017) 056319 E-ISSN: 2158-3226 1.579
50. IS Vijayashree, P Niranjana, G Prabhu, VV Sureshababu & **J Manjanna***
Conjugation of Au nanoparticles with chlorambucil for improved anticancer activity.
Journal of Cluster Science 28 (2017) 133-148 ISSN: 1040-7278 **1.715**
49. GP Nayaka, KV Pai, **J Manjanna***, KC Anjaneya, P Periaswamy & VS Tripathi
Structural, electrical and electrochemical studies of LiNi_{0.4}M_{0.1}Mn_{1.5}O₄ (M= Co, Mg) solid solutions for lithium ion battery.
Bulletin of Materials Science 39(5) (2016) 1279-1284 ISSN: 0250-4707 0.925
48. K Shankamma, S Yallappa, MB Shivanna & **J Manjanna***
Fe₂O₃ magnetic nanoparticles to enhance *S. lycopersicum* (Tomato) plant growth and their biomineralization
Applied Nanoscience 6(7) (2016) 983-990 ISSN: 2190-5517 **2.951**
47. GP Nayaka, KV Pai, **J Manjanna** & SJ Keny
Use of mild organic acid reagents to recover the Co and Li from spent Li-ion batteries.
Waste Management 51 (2016) 234-238 ISSN: 0956-053X **3.829**
46. GP Nayaka, KV Pai, G Santhosh & **J Manjanna**
Dissolution of cathode active material of spent Li-ion batteries using tartaric acid and ascorbic acid mixture to recover Co.
Hydrometallurgy 161 (2016) 54-57 ISSN: 0304-386X **3.300**
45. S Yallappa, **J Manjanna***, BL Dhananjaya, U Vishwanatha, B Ravishankar, H Gururaj, P Niranjana & BS Hungund
Phytochemically functionalized Cu and Ag nanoparticles embedded in MWCNT for enhanced antimicrobial and anticancer properties.
Nano-Micro Letters 8(2) (2016) 120-130 ISSN 2311-6706 **7.381**
44. M Vinuth, HSB Naik & **J Manjanna**
Remediation of hexavalent chromium from aqueous solution using clay mineral Fe(II)-montmorillonite : Encompassing anion exclusion impact
Applied Surface Science 357 (2015) 1244-1250 ISSN 0169-4332 **4.439**

43. S Yallappa, **J Manjanna***, BL Dhananjaya, U Vishwanatha, B Ravishankar & H Gururaj
Phytosynthesis of gold nanoparticles using *Mappia foetida* leave extract and their conjugation of folic acid for delivery of doxorubicin to cancer cells.
J. Mater. Sci.: Materials in Medicine 26(9) (2015) 235–ISSN: 0957–4530 **2.448**
42. M Vinuth, HSB Naik, **J Manjanna** & BM Vinoda
Environmental remediation of hexavalent chromium in aqueous medium using Fe(II)-montmorillonite as reductant.
Procedia Earth and Planetary Science 11 (2015) 275–283 ISSN: 1878-5220 **1.088**
41. GP Nayaka, **J Manjanna***, KV Pai, R Vadavi, SJ Keny & VS Tripathi
Recovery of valuable metal ions from the spent lithium-ion battery using aqueous mixture of mild organic acids as alternative to mineral acids.
Hydrometallurgy 151 (2015) 73–77 ISSN: 0304-386X **3.300**
40. SP Bharath, **J Manjanna***, SA Javeed & S Yallappa
Multi-walled CNT coated cotton fabrics for possible energy storage devices.
Bulletin of Materials Science 38 (2015) 169–172 ISSN: 0250-4707 **0.925**
39. S Yallappa, **J Manjanna*** & BL Dhananjaya
Phytosynthesis of stable Au, Ag and Au-Ag alloy nanoparticles using *J. Sambac* leaves extract, and their enhanced antimicrobial activity in presence of organic antimicrobials.
Spectrochimica Acta A: 137 (2015) 236–243 ISSN: 1386-1425 **2.880**
38. S Yallappa & **J Manjanna***
Biological evaluation of silver nanoparticles obtained from *T. Arjuna* bark extract as both reducing and capping agent.
Journal of Cluster Science 25 (2014) 1449–1462 ISSN: 1040-7278 **1.715**
37. BM Vinoda & **J Manjanna***
Dissolution of iron in salicylic acid and cation-exchange between Fe(II)-salicylate and Na-montmorillonite to form Fe(II)-montmorillonite.
Applied Clay Science 97-98 (2014) 78–83 ISSN: 0169-1317 **3.618**
36. GP Nayaka, **J Manjanna***, KC Anjaneya, P Manikandan, P Periasamy & VS Tripathi
Structural, electrical and electrochemical behavior of $\text{LiNi}_{0.4}\text{M}_{0.1}\text{Mn}_{1.5}\text{O}_4$ [$M = \text{Al, Bi}$] as cathode material for Li-ion batteries.
Bulletin of Materials Science 37 (2014) 705–711 ISSN: 0250-4707 **0.925**
35. KC Anjaneya, **J Manjanna***, VMA Kumar, G Govindaraj & KN Ganesha
Citrate-complexation synthesized $\text{Ce}_{0.85}\text{Gd}_{0.15}\text{O}_{2-\delta}$ (GDC15) as solid electrolyte for intermediate temperature SOFC.
Physica B: Condensed Matter 445 (2014) 51–55 ISSN: 0921-4526 **1.453**
34. KC Anjaneya, GP Nayaka, **J Manjanna***, G Govindaraj & KN Ganesha
Investigation on the Sr-doped ceria $\text{Ce}_{1-x}\text{Sr}_x\text{O}_2$ ($x = 0.05 - 0.2$) as an electrolyte for intermediate temperature SOFC.
Journal of Alloys and Compounds 598 (2014) 33–40 ISSN: 0925-8388 **3.779**
33. KC Anjaneya, GP Nayaka, **J Manjanna***, G Govindaraj & KN Ganesha

- Studies on structural, morphological and electrical properties of $Ce_{0.8}Ln_{0.2}O_{2-\delta}$, ($Ln = Y^{3+}$, Gd^{3+} , Sm^{3+} , Nd^{3+} and La^{3+}) solid solutions prepared by citrate complexation method.
Journal of Alloys and Compounds 585 (2014) 594–601. ISSN: 0925-8388 **3.779**
32. KC Anjaneya, GP Nayaka, **J Manjanna***, G Govindaraj & KN Ganesha
Preparation and characterization of $Ce_{1-x}Gd_xO_{2-\delta}$ ($x = 0.1-0.3$) as solid electrolyte for intermediate temperature SOFC.
Journal of Alloys and Compounds 578 (2013) 53–59 ISSN: 0925-8388 **3.779**
31. KC Anjaneya, GP Nayaka, **J Manjanna***, G Govindaraj & KN Ganesha
Preparation and characterization of $Ce_{1-x}Sm_xO_{2-\delta}$ ($x = 0.1-0.3$) as electrolyte material for intermediate temperature SOFC.
Solid State Science 26 (2013) 89–96 ISSN: 1293-2558 **2.041**
30. S Yallappa, **J Manjanna***, SK Peethambar, AN Rajeshwara & ND Satyanarayan
Green synthesis of silver nanoparticles using *Acacia farnesiana* (sweet acacia) seed extract under microwave irradiation and their biological assessment.
Journal of Cluster Science 24 (2013) 1087–1092 ISSN: 1040-7278 **1.715**
29. S Yallappa, **J Manjanna***, MA Sindhe, ND Satyanarayan, SN Pramod & K Nagaraja
Microwave assisted rapid synthesis and biological evaluation of stable copper nanoparticles using *T. arjuna* bark extract.
Spectrochimica Acta Part A 110 (2013) 108–115. ISSN: 1386-1425 **2.880**
28. M. Kumar, BEK Swamy, S Reddy, TV Sathisha & **J Manjanna**
Synthesis of ZnO and its surfactant based electrode for the simultaneous detection of dopamine and ascorbic acid.
Analytical Methods 5 (2013) 735–740 ISSN 1759-9660 **2.073**
27. SJ Patwe, SN Achary, **J Manjanna**, AK Tyagi, SK Deshpande, SK Mishra, PSR Krishna & AB Shinde
Observation of a new cryogenic temperature dielectric relaxation in multiferroic $Bi_7Fe_3Ti_3O_{21}$
Applied Physics Letters 103 (2013) 122901–4 ISSN 0003-6951 **3.495**
26. M Nagaraja, HM Mahesh, **J Manjanna**, K Rajanna, MZ Kurian & SV Lokesh
Effect of multiwall carbon nanotubes on electrical and structural properties of polyaniline.
Journal of Electronic Materials 41(7) (2012) 1882–85 ISSN 0361-5235 **1.566**
25. G Dodbiba, T Fujita, T Kikuchi, **J Manjanna**, S Matsuo, H Takahashi & K Tohji
Synthesis of iron-based adsorbents and their application in the adsorption of molybdenum ions in nitric acid solution.
Chemical Engineering Journal 166(2) (2011) 496–503 ISSN 1385-8947 **6.735**
24. SJ Patwe, SN Achary, **J Manjanna**, RM Kadam, HG Salunke & AK Tyagi
Crystal structure, thermal and magnetic properties of $Cr_2V_4O_{13}$
Journal of Solid State Chemistry 83(12) (2010) 2770-2778 ISSN 0022-4596 **2.179**
[ChemInform Abstract: 42(11) (2011) 017; DOI: 10.1002/chin.201111017]
23. A Singhal, SN Achary, **J Manjanna**, S Chatterjee, P Ayyub & AK Tyagi

Chemical synthesis and structural and magnetic properties of dispersible cobalt- and nickel-doped ZnO nanocrystals
Journal of Physical Chemistry C 114(8) (2010) 3422–3430 ISSN 1932-7447 **4.484**

22. R Shukla, **J. Manjanna**, A Bera, S Yusuf & AK Tyagi
La_{1-x}Ce_xCrO₃ (0.0 ≤ x ≤ 1.0): A new series of solid solutions with tunable magnetic and optical properties
Inorganic Chemistry 48(24) (2009) 11691-11696 ISSN 0020-1669 **4.700**
[ChemInform Abstract: 41(20) (2010) 006; DOI: 10.1002/chin.201020006]
21. DP Dutta, **J Manjanna** & AK Tyagi
Magnetic properties of sonochemically synthesized CoCr₂O₄ nanoparticles
Journal of Applied Physics 106 (2009) 043915 ISSN 0021-8979 **2.176**
20. A Singhal, SN Achary, **J Manjanna**, OD Jayakumar, RM Kadam & AK Tyagi
Colloidal Fe-doped indium oxide nanoparticles: Facile synthesis, structural, and magnetic properties
Journal of Physical Chemistry C 113(9) (2009) 3600–3606 ISSN 1932-7447 **4.484**
19. **J Manjanna***, T Kozaki & S Sato
Fe(III)-montmorillonite: Basic properties and diffusion of tracers relevant to alteration of bentonite in deep geological disposal
Applied Clay Science 43(2) (2009) 208–217 ISSN: 0169-1317 **3.618**
18. M Nagaraja, J Pattar, N Shashank, **J Manjanna**, Y Kamada, K Rajanna & HM Mahesh
Electrical, structural and magnetic properties of polyaniline/pTSA-TiO₂ nanocomposites
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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 -Fe₂O₃ 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 Atomic Energy Society of Japan* @ 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)-nitrioltriacetate. *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* @ Jabalpur 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 Tripathi & **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

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. Basics 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, Sirigeri (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, **2006**).
3. Corrosion behavior of Nuclear materials @ Hokkaido Univ. Japan (June **2005**).
2. Interaction of iron corrosion products with bentonite/ montmorillonite 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

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

1. Evaluated Ph.D. thesis from Shivaji University, Kolhapur (2019) | **Jadhav A.L** (Guide: Dr. S.M Khetre, Dept of Chemistry @ Dahiwadi College, Satara-Dist).
2. Evaluated Ph.D. thesis from University of Mysore (2019) | **Adel Moshed Nagi Saeed** (Guide: Prof. Siddaramaiah @ Dept. of Polymer Science & Technology, JSSIT, Mysuru).
3. Evaluated Ph.D. thesis from Shivaji University, Kolhapur (2019) | **V.B. Shevale** (Guide: Prof. S.D. Delekar, Dept of Chemistry).
4. Evaluated Ph.D. thesis from Vijayanagara Sri Krishnadevaraya University, Bellary (2019) | Mr. Mohammed Imadadulla (Guide: Prof. K.S. Lokesh, Dept. of Chemistry) & Conducted open Viva-voce exam.
5. Evaluated Ph.D. thesis from University of Madras, Chennai (2019) | V. Balaji (Guide: Dr. S. Velmurugan, WSCD, BARC facilities, Kalpakkam 603102).
6. Evaluated Ph.D. thesis from Gulberga University, Kalaburgi (2019) | Basawaraj Chatnalli (Guide: Dr. K.S. Venkatesh, Dept. of Material Science) & Conducted open Viva-voce exam.
7. Evaluated Ph.D. thesis from University of Mysore, Mysore (2018) | Manohara B (Guide: Prof. S.L. Belagali, DOS in Env Sci.)
8. Evaluated Ph.D. thesis from University of Mysore, Mysore (2017) | Mamatha B.S (Guide: Dr. R.L. Jagadish, Dept. of Polymer Science, Sir M.V. PG Centre, Tubinakere, UoM, Mandya)
9. Evaluated and conducted viva-voce exam for M.Tech. (Nanotechnology) Dissertation @ NIE, Mysuru (July 3, 2018).
10. External examiner for pre-Ph.D comprehensive viva-voce of Mr. Udayabhanu @ SIT (VTU), Tumkur (Aug 3, 2018).
11. DST-FIST-Level-1 proposal (Nanomaterials for Energy devices, Environmental remediation & Biomedical applications) presentation under *Chemical Sciences* @ Indian Academy of Sciences, Bangalore (Sept 19, 2016).
12. External examiner for pre-Ph.D comprehensive viva-voce of Mrs. Navya Rani M @ VTU Regional office, Bangalore (April 16, 2016).
13. Subject expert to select JRF under UGC-MRP @ Dept. of Pharmaceutical Chemistry, Kuvempu University PG Centre, Kadur (April 2, 2016).
14. Subject expert to elevate JRF to SRF under RGNF @ Dept. of Chemistry, Shivaji University, Kolhapur (Jan 8, 2016).
15. Chaired a session for Oral presentation in 'Material Science' section during *103rd Indian Science Congress 2016: Science & Technology for Indigenous Development in India* @ University of Mysore, Mysore (Jan 5, 2016).
16. RCU/KSHEC nominee 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)
17. Subject expert of the committee to select SRF under KCTU-VTU research project @ Dept. of Nanotechnology, VTU-campus, Muddenahalli (Sept 10, 2015).
18. Executive Member of Rani Channamma Univ. Teachers Association (Since Oct 2015-2018).
19. Judge for Poster presentations during the Nat. Conf. on Advanced Nanotechnology & Its Applications @ Maharani's Science College for Women, Bangalore (Jan 22-23, 2015).
20. Chairman, PG Vigilance Squad during RCU Examinations (B.Ed.) held in May/June-2014.
21. Member of Core-committee for M.Sc. in Food Science & Technology course to be started in Kuvempu Univ (in association with McGill University, Canada) – syllabus/ technical discussions held in PME Board during June-July 2013.
22. IEEE observer for 3rd Int. Conf. on Materials for Energy and Nano Convergence @ Hindustan University, Chennai (4-6 July 2013).

23. 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).
24. 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).
25. Executive Member of Kuvempu University Teachers Association (One Yr term w.e.f 25.04.2013).
26. Presiding officer during Gram Panchayat/Assembly/Parliament/Gram Panchayat elections (2010-Hosanagar-Tq, 2013- Shimoga-R, 2014-Karwar/Londa, 2015-Gokak).
27. Member of stock-verification committee @ Kuvempu Univ. (2011, 2012, 2013).
28. Selection committee (Judge) for co-curricular activities during annual event (Sahyadri Utsav) in Kuvempu Univ. (2011, 2013).
29. 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.
30. Evaluated Research project proposal to BRNS/DAE, **2013**.
31. Evaluated Ph.D. thesis from Jawaharlal Nehru Technological University Hyderabad (**2011**) | Raghunandan Deshpande (Guide: Prof. A. Venkataraman, Dept. of Material Science, Gulberga University)

Referees

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