

ACADEMIC PROFILE OF FACULTY MEMBER

1. Name: Dr. Shah Raj Ali
2. Designation: Associate Professor
3. Qualification: Ph.D.
4. Area of Specialization/Research field: Physical Chemistry
5. Awards/Recognitions:

- Best Poster Presentation Award in International Conference on “Biomedical Engineering & Supportive Technologies” organized by Bundelkhand Institute of Engineering & Technology, Jhansi (September 02-03, 2016).
- ISCA Best Poster Award in “101th Indian Science Congress” organized by University of Jammu., Jammu (February 03-07, 2014).
- Best Poster Presentation Award in International Conference on “Green Technologies for Environmental Rehabilitation” organized by G.K.V., Haridwar (February 11-13, 2012).
- Young Scientist Award-2011 (by UCOST Dehradun) in “6th USSTC” organized by S.S.J. Campus Almora (November 14-16, 2011).
- Best Oral Paper Presentation Award in “2nd Annual Conference of Academica” organized by Government P.G. College Pithoragarh (March 15-16, 2009).
- Dr. K.S. Korgaunkar Award by Indian Biophysical Society in “National Symposium on Biophysics” organized at Indian Institute of Technology Roorkee (February 22-24, 2002)

6. Number of Research projects:

i) Completed

Sr. No	Title of the project	Funding Agency	Amount (Rs.)	Year (From-To)
1.	Green catalytic behaviour of nanoscaled metal hexacyanocobaltate for oxidation of cumene and cyclohexene.	UCOST Dehradun	4.8 Lakh	01-05-12 to 28-02-15
2.	Syntheses, characterization, catalytic and antimicrobial activities of metal hexacyanocobaltate nanoparticles.	UGC New Delhi	9.45 Lakh	10-02-09 to 31-08-12
3.	Syntheses, characterization and catalytic activities of nano-sized double metal cyanide complexes.	UCOST Dehradun	7.37 Lakh	08-09-07 to 30-06-10
4.	Electrocatalytic potential of nanoscaled metal hexacyanometallates-carbon nanotube composite and its application in voltammetric determination of salbutamol, paracetamol, morphine and codeine drugs	CSIR New Delhi	12.00 Lakh	15-01-09 to 31-01-12

5.	Removal of heavy metals from their aqueous solution using activated bark of <i>Pinus roxburghii</i> as an adsorbent.	K.U., Nainital	1.01 Lakh	07-09-16 to 30-09-17
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7. Number of Ph. Ds awarded: 05

8. Number of candidates working for Ph.D. award: 04

9. Publications:

i) Research Articles published:

1. Alam T., Tarannum H, **Ali S.R.**, Kamaluddin, “Adsorption and oxidation of aniline and anisidine by chromium ferrocyanide”, J. Colloid and Interface science, 245 (2002) 251-256. 0021-9797 **(I.F. = 5.091)**
2. **Ali S.R.**, Ahmad J., Kamaluddin, “Interaction of ribose nucleotides with metal ferrocyanides and its relevance in chemical evolution”, Colloids and Surfaces, 236 (2004) 165-169. **(I.F. = 3.131)**
3. **Ali S.R.**, Kamaluddin, “The interaction of ribonucleotides with metal hexacyanochromates and the relevance to chemical evolution”, Bull. Chemical Society Japan, 77 (2004) 1681-1686. **(I.F. = 2.222)**
4. **Ali S.R.**, Alam T., Kamaluddin, “Interaction of tryptophan and phenylalanine with metal ferrocyanides and relevance in chemical evolution”, Astrobiology, 4 (2004) 420-426. **(I.F. = 3.768)**
5. **Ali S.R.**, Kamaluddin “The interaction of aromatic amino acid with metal hexacyanochromates: Possible role in chemical evolution and origin of life”, Bull. Chemical Society Japan, 79 (2006)1541-1546. **(I.F. = 2.222)**
6. **Ali S.R.**, Kamaluddin, “The interaction of nucleotides with metal hexacyanocobaltates: A possible role in chemical Evolution”, Origin Life Evolution Biosphere, 37 (2007) 225-234. **(I.F. = 1.676)**
7. **Ali S.R.**, Bansal V.K, Khan A.A., Jain S.K., Ansari M.A., “Growth of zinc hexacyanoferrate nanocubes and their potential as heterogeneous catalyst for solvent-free oxidation of benzyl alcohol”, J. Molecular Catalysis: A Chemical 303 (2009) 60-64. **(I.F. = 5.008)**
8. **Ali S.R.**, Chandra P., Latwal M., Jain S.K, Bansal V.K., “Synthesis of nickel hexacyanoferrates nanoparticles and their potential as heterogeneous catalyst for solvent-free oxidation of benzyl alcohol” Chines Journal of Catalysis, 32(12), (2011) 1844-1849. **(I.F. = 4.914)**
9. **Ali S.R.**, Chandra P., Latwal M, Jain S.K, Bansal V.K., “Growth of cadmium hexacyanido-ferrate(III) nanocubes and Its application in voltammetric determination of morphine” Bull. Chemical Society Japan 84 (2011) 1355-1361. **(I.F. = 4.431)**

10. Latwal M, Chandra P., **Ali S.R.**, “Synthesis of nanostructured copper hexacyanidoferrate and its application in voltammetric detection of salbutamol” J. Applied Electrochemistry 44(9), (2014) 1127-1134. **(I.F. = 2.366)**
11. **Ali S.R.**, Chandra P., Arya M.C., Joshi P., Kumar R., Khanum S., “Equilibrium constant of mixed ligands complexes of Cu (II), Ni(II), Zn(II) and Co(II)] with benzalidine-glycine Schiff base and pyridine-2,6-dicarboxylic acid” Ally J. Pharma. Sci. 2(2) (2015) 580-588. (ISSN 2394-1626)
12. **Ali S.R.**, Chandra P., Arya M.C., Khanum S., Joshi P., Kumar R., “Nanostructured manganese hexacyanidocobaltate as heterogeneous catalyst for solvent-free oxidation of benzyl alcohol” J. Advance Catalysis Science & Technology 3 (2016) 20-26. (ISSN 2408-9834)
13. Hussain N, Joshi P, **Ali S.R.**, Bhardwaj V.K., “Comparative structure activity relationship for heterogeneous phosphate-like catalytic activities of one-dimensional Cu(II) coordination polymers” Royal Society of Chemistry Advances, 6 (2016) 61528-61535. **(I.F. = 3.049)**
14. Chandra P., Kumar R., Arya M.C., Bhardwaj V.K., Joshi P., **Ali S.R.**, "Nanocubic cadmium hexacyanoferrate catalyzed selective oxidation of benzyl alcohol: An eco-friendly protocol", J. Chemical Engineering & Chemistry Research, 3(2016) 985-988. (ISSN 2333-9209)
15. Arya M.C., Joshi R.C., Kumar R., **Ali S.R.**, Kadabinakatti S.K., "Removal of Methylene Blue from Its Aqueous Solution using Bark of Pinus roxburghii as an Adsorbent", J. Chemical Engineering & Chemistry Research, 3(2016) 975-979. (ISSN 2333-9209)
16. Joshi P, Hussain N, **Ali S.R.**, Rishu, Bhardwaj V.K., “Enhanced activity of trinuclear Zn(II) complexes towards phosphate ester bond cleavage by introducing three-metal cooperativity” New Journal of Chemistry: RSC, 42 (2018) 2204-2215. **(I.F. = 3.069)**
17. **Ali S.R.**, Kumar R., Arya M.C., ”Enhanced photocatalytic activity of manganese-doped cerium oxide nanoparticles under visible and UV irradiation” Asian Journal of Chemistry, 11 (2018) 2544-2550 **(I.F. = 0.61)**
18. **Ali S.R.**, Kumar R., Kadabinakatti S.K., Arya M.C., “Enhanced UV and visible light-driven photocatalytic degradation of tartrazine by nickel-doped cerium oxide nanoparticles” Material Research Express, 6(2) 022513, 2018 ISSN 20531591 **(I.F. = 1.449)**
19. **Ali S.R.**, Kumar R., Kalam A., .Al-Sehemi A.G. ^c, Arya M.C., “Effect of strontium doping on the band gap of CeO₂ nanoparticles synthesized using facile co-precipitation” Arabian Journal for Science and Engineering, 44(7), 6295-6302, 2019 ISSN-2191-4281 **(I.F. = 1.518)**
20. Kamaluddin, **Ali S.R.**, “Study on copper chromicyanide as prebiotic catalyst”, Life in the Universe, Kluwer Academic Publishers, Netherlands, (2004) 153-156. ISBN 9780134089089

21. **Ali S. R.**, “Growth of manganese hexacyanoferrate nanocubes and subsequent application in voltammetric determination of paracetamol drug” *Ethanopharmacology: Indian Trends, Perspectives and Innovation*, Radha Publications, New Delhi, (2015) 311-315.
(ISBN 978-81-7487-947-9)
22. **Ali S. R.**, Chandra P., Latwal M, “Nanostructured zinc hexacyanidocobaltate catalyzed oxidation of phenol: *A Possible Pharmaceutical Application*” *Ethanopharmacology: Indian Trends, Perspectives and Innovation*, Radha Publications, New Delhi, (2015) 300-310.
(ISBN 978-81-7487-947-9)
23. **Ali S. R.**, “Nickel hexacyanoferrate nanoparticles catalyzed oxidation of phenol: *A Green Approach*” Durga Ma Prakashan, Haldwani, Nainital, (2015) 1-6. (ISBN 978-81-9205-095-9)
24. **Ali S. R.**, Chandra P., Latwal M, “Nanocubic cadmium hexacyanidoferrate-CNT composite based voltammetric sensor for paracetamol: *A Green Technology*” Durga Ma Prakashan, Haldwani, Nainital, (2015) 81-88.
(ISBN 978-81-9205-095-9)
25. **Ali S. R.**, Chandra P., Joshi P, Nanostructured copper hexacyanidoferrate-CNT composite based sensor for paracetamol: *A green technology*, Excel India Publishers, New Delhi, (2016) 120-124.
(ISBN 978-93-85777-90-5)

10. Conference/Seminar organized:

S/N	Status as organizer	Title of the conference/seminar	Year and dates
1	Organizing Secretary	National conference on Chemistry-Biology Interface	03-05 November 2011

11. Membership to professional Organization/Associations:

Sr. No.	Name of the Association/Organizations	Status of the membership
1.	Indian Science Congress Association	Life Member (No: L-12176)
2	Indian Council of Chemists	Life Member (LF/756)
3	Indian Chemistry Teachers Association	Life Member (LM No: 984)
4	Indian Chemical Society	Life Member (No: F/7477 (LM))
5	Member of Sectional Committee (ISCA)	Elected member of Chemical Science Sectional Committee-2015

12. Any other Information:

INVITED TALKS DELIVERED: 06

Title of Talk	Title of Conference	Host Institute	Date of Event
1. Nanotechnology: A general prospective	National Seminar on RTAMPS-2012	D.N. College Meerut	March 17, 2012
2. Nickel hexacyano-ferrate nanoparticles catalyzed oxidation of phenol: A green approach.	National seminar on environmental economics & social sustainability,	Govt. P.G. College, Dwarhat (Almora)	Dec.4-5, 2014
3. Nanostructured metal hexacyanidocobaltates for catalytic oxidation of benzyl alcohol	34th Annual National Conference of Indian Council of Chemists,	UKA Tarsadia University, Bardoli, Surat	Jan. 14-16, 2016
4. Zirconium-ferrite nanoparticles for the adsorptive removal of Cr(III) from aqueous solution	SEIEID-2017	Government P.G. College, Dwarahat, Almora	May 06-07, 2017
5. Synthesis of metal hexacyano-ferrate nanoparticles and their application in catalytic oxidation of benzyl alcohol under.... condition	RAC&NS-2018	HNBG University, Pauri Campus, Pauri.	Oct.29-30, 2018
6. Copper hexacyanidoferrate nanoparticles-CNT composite modified glassy carbon electrode for voltammetric determination of morphine	RANPCN-2019	HNBG University, Srinagar	Sept 09-10, 2019

LECTURES AS RESOURCE PERSON: 05

Title of Talk	Title of Event	Host Institute	Date of Event
1. Green Catalysts for Environmental Protection	Lecture to M.Sc. students	G.K.U., Haridwar	Feb 19, 2016
2. Nanostructured metal hexacyanidocobaltate as green catalysis”	DST Inspiration Camp	HNBGU Srinagar	Feb 05, 2016
3. Nanostructured metal hexacyanidocobaltate as green catalysis”	DST Inspiration Camp	HNBGU Srinagar	Jan 21, 2016
4. Chemical Hazards	National Symposium on “Env. Protection & GM Technology”	DRDO-DIBER Haldwani	July 04, 2012
5. Nanocatalysis	DST Inspiration Camp	K.U., Nainital	Nov.14, 2011

Date: 12-06-2020