

**Designation:**

Head of the Department

Specialization:

Biogenic Nanoparticles, Water Quality Analysis, Chemical Evolution

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Citations: 194 since 2017

h-index: 9 (Google Scholar, September 2021)

i-10 index: 8

(Scopus, Research Gate, September 2021)

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Research Interest: Heterogeneous and Biogenic Nanoparticles, Water Treatment Technologies.

Teaching Interest: Physical Chemistry, Molecular Spectroscopy, Organic Chemistry

Education:

Sr. No.	Institute	Degree Awarded	Year	Field of Study
1	IIT Roorkee	Ph.D.	1998	Heterogeneous Catalysis
<i>Thesis Title: Studies on Hexacyanoferrate(II) as Prebiotic Catalyst</i>				
Thesis supervisor: Prof. Kamaluddin				
2	IIT Roorkee	M.Phil.	1993	Industrial Methods of Chemical Analysis
3	IIT Roorkee	M.Sc.	1991	Physical Chemistry

Employment:

Sr. No.	Institution, Place	Position	From (date)	To (date)
1	KLDAV PG College, Roorkee	Assistant Professor and Head	2 nd July, 2016	Till date
2	Taibah University, Science College, Yanbu, Kingdom of Saudi Arab	Associate Professor	14 July, 2015	20 June 2016

3	KLDAV PG College, Roorkee	Assistant Professor and Head	26 July, 2014	10 July, 2015
4	University of Tabuk, Kingdom of Saudi Arab	Associate Professor	29 Dec. 2012	3 Jun, 2014

Honors/Awards/Fellowship

Sr. No.	Institute/organization	Honor
1	Young Scientist Award: Awarded in National Conference on Emerging Trends in Chemistry-Biology Interface ETCBI-2011 organized by Department of Chemistry, D.S.B Campus, Kumaun University, Nainital from 3 rd November 2011 to 5 th November 2011.	Young Scientist Award
2	IIT Roorkee formerly University of Roorkee	SRF (MHRD, New Delhi)
3	IIT Roorkee formerly University of Roorkee	JRF (MHRD, New Delhi)

Qualified GATE (Graduate Aptitude Test in Engineering) in Chemistry with 83.27 percentile with registration number CY67016.

Ph.D. thesis ongoing, Submitted and Awarded: Ongoing

S.N.	Student's name	Thesis Title
1.	Juhi Agarwal	Pharmacological investigation of medicinally important plants with reference to green nanotechnology.
2.	Murtaza Gani	Phytochemical Study of Indigenous Fruits and Vegetables from Temperate Regions of Indian Himalayas".

Awarded

B. C. Khuntia	Synthesis and characterization of iron based nano particles for the degradation of organochlorine pesticides (Viva-Voce successfully held on 21 February 2022).
Sapna Tyagi	Green Synthesis, Characterisation and Biological Applications of Nanoparticles using medicinal plants (25-11-2020).
Gita Saini	Fate of Endocrine Disrupting Chemicals and Personal Care Products in Waste Water Treatment Plant" awarded in 2016.
Nitin Sharma	Water Treatment: Removal of Pesticides using Metal Ferricyanides" was awarded in January 2016.

References:

1. Dr Ravi Bhushan, Professor, Indian Institute of Technology, Department of Chemistry, Roorkee, India-247667, Email: rbushfcy54@gmail.com, Cell:+91-9456379979
2. Dr. Imran Ali, Professor, Department of Chemistry, Jamia Millia Islamia, New Delhi-110025, India, Email: iali2@jmi.ac.in (Primary), drimran_ali@yahoo.com, Cell: +91-9211458226
3. Dr Absar A. Kazmi, Professor, Indian Institute of Technology, Department of Civil Engineering, Roorkee, India-247667, Email: kazmifce@iitr.ernet.in, kazmiaabsar@yahoo.com Cell:+91-9837262698

PEER REVIEWED/SCI PUBLICATIONS

1. Murtaza Gani, Tanveer Alam, 'Biological activity of the Indigenous Fruits and Vegetables of Indian Himalayan Regions' in **International Journal of Pharmaceutical Sciences and Research**, 2022; Vol. 13(7): 2697-2702 1. (I.F.=0.604) ISSN: 0975-8232(e), 2320-5148(p) [http://dx.doi.org/10.13040/ijpsr.0975-8232.13\(7\).2697-02](http://dx.doi.org/10.13040/ijpsr.0975-8232.13(7).2697-02)
2. Nitin Sharma, **Tanveer Alam** and Ashok Kumar, "Kinetic study of Iodination of Propane in Different acidic Medium by using Colorimeter", **Current Physical Chemistry**, 2022. Volume 12, Number 1, 2022, pp. 67-75(9). ISSN: 1877-9468. 1877-9476(e) DOI:10.2174/1877946811666210525102725.
3. **Tanveer Alam**, Murtaza Gani, Rukhsana Rahman, Khalid ul Islam Rather "HPLC Quantification of the Chemical Constituents from Indegineous Fruits and Vegetables of Indian Himalyan Regions" **Carpathian Journal of Science and Technology**, Vol.13(3), 89-97, 2021. <https://doi.org/10.34302/crpfjst/2021.13.3.7> ISSN- L 2066-6845 (I.F. = 0.438)
4. Juhi Agarwal and **Tanveer Alam**, "Green synthesis of zinc oxide nanoparticles and their antimicrobial properties using plant extract of *Aristolocia elegans*", **Asian Journal of Chemistry**, Vol. 32(10), 2589-2593, 2020 (I.F. = 0.535). ISSN: 0975-427X(e), 0970-7077 (P) <https://doi.org/10.14233/ajchem.2020.22812>
5. **Tanveer Alam**, Sapna Tyagi, Goutam Kumar, Azhar Khan, Neha Chauhan, Hina Tarannum, Parwez Ahmad and A. Rizvi, "Synthesis and Biological Activity of Silver Nanoparticles from Medicinal Palm Tree *Bismarckia nobilis* Seeds", **Asian Journal of Chemistry**, Vol. 32(9), 2229-2232, 2020 (I.F. = 0.535). ISSN: 0975-427X(e), 0970-7077(P) <https://doi.org/10.14233/ajchem.2020.22738>
6. B.K Khuntia, Mohammad Anwar, **Tanveer Alam**, Mohammed Samim, Mithlesh Kumari, Indu Arora, "Synthesis and characterization of zero-valent iron nanoparticles, and the study of their effect against the degradation of DDT in soil and assessment of their toxicity against collembola and ostracods ", **ACS Omega** (2019), 20(4), 18502-18509 (I.F.= 4.132) . ISSN 24701343. <https://doi.org/10.1021/acsomega.9b01898>
7. Sapna Tyagi, **Tanveer Alam**, Mohammed Azhar Khan, Hina Tarannum, Neha Chauhan "Biosynthesis of silver nanoparticles using medicinal plant *Anacyclus Pyrethrum* and its antibacterial efficacy" **Asian journal of Research in Chemistry** (2018), 11(3), 515-520. (I.F. = 0.355). ISSN: 0974-4150(e), 0974-4169(P), <http://doi:10.5958/0974-4150.2018.00092.5>
8. Gita Saini & Shalini Pant & Shri Om Singh & A. A. Kazmi & **Tanveer Alam**, "A comparative study of occurrence and fate of endocrine disruptors: diethyl phthalate and dibutyl phthalate in ASP- and SBR-based wastewater treatment plants", **Environ. Monit. Assess** (2016) 188:609 (I. F. = 3.200). ISSN: 1573-2959 (e), 0167-6369 (P), <https://doi.org/10.1007/s10661-016-5617-4>
9. Gita Saini, Shalini Pant, **Tanveer Alam** and A. A. Kazmi, "Occurrence and fate of endocrine disrupting chemicals in ASP based sewage treatment plant in Hardwar", **Water Science and Technology**, 74, 5, pp 1039-1080, 2016 (I.F.=2.430). ISSN:1996-9732(e), 0273-1223(P), <http://doi:10.2166/wst.2016.238>
10. Nitin Sharma, **Tanveer Alam***, Arshi Rastogi, Hina Tarannum and Gita Saini, "Adsorptive Removal of Alizarin Red-S from Aqueous Solutions by Using Cobalt and Copper Ferricyanides", **J. Applicable Chemistry**, 4(3), 871-882, 2015. ISSN: 2278-1862, Available online at www.joac.info

11. Gita Saini, Shalini Pant, **Tanveer Alam**, A. A. Kazmi, Nitin Sharma and Nitin Kumar Singh, "Removal Efficiency of Endocrine Disrupting Chemicals through Chemical Coagulation using two Different Coagulants: AlCl_3 and $\text{Al}_2(\text{SO}_4)_3$ ", *J. Appl. Chem.* **4**(1), 136-143, 2015. ISSN: 2278-1862, Available online at www.joac.info
12. Nitin Sharma, **Tanveer Alam** and Hina Tarannum, "Adsorption Study of Congo Red from aqueous Solution onto Cadmium and Nickel Ferrocyanides", *J. Appl. Chem.* **3**(6), 2470-2480, 2014. ISSN: 2278-1862, Available online at www.joac.info
13. U. Vashisht, G. Rani, V. Ali, J. Kaushal, **Tanveer Alam**, S. A. Alhadi, and M. Islam, "Synthesis of phenolic resin blended castor oil based modified polyol for two components polyurethane coating", *J. Chemistry and Chem. Engg.* **5**, 738-746, 2011 (I. F. = 0.654). ISSN: 1934-7375 (P), <http://doi.org/10.17265/1934-7375/2011.08.010>
14. Shah Raj Ali, **Tanveer Alam** and Kamaluddin, "Interaction of tryptophan and phenylalanine with metal ferrocyanides", *Astrobiology*, **4**, 420-426, 2004 (I.F. = 4.844), ISSN: 1475-3006 (e), 1473-5504 (P), <https://doi.org/10.1089/ast.2004.4.420>
15. **Tanveer Alam**, H. Tarannum, S.R. Ali and Kamaluddin, "adsorption and oxidation of aniline and anisidine by chromium ferrocyanide", *Colloid and Interface Sci.* **245**, 251, 2002. (I.F. = 9.965). ISSN: 1095-7103 (e), 0021-9797 (P), <https://doi.org/10.1006/jcis.2001.7968>
16. **Tanveer Alam**, H. Tarannum, M.N.V. Ravi Kumar and Kamaluddin, "Adsorption and oxidation of aromatic amines with metal hexacyanoferrate", *Talanta* **51**, 1097, 2000. (I.F. = 6.556), ISSN: 0039-9140, [https://doi.org/10.1016/S0039-9140\(99\)00349-5](https://doi.org/10.1016/S0039-9140(99)00349-5)
17. **Tanveer Alam**, H. Tarannum, Neeraj Kumar and Kamaluddin, "Interaction of 2-amino, 3-amino and 4-aminopyridines with chromium and manganese ferrocyanides", *Colloid and Interface Sci.*, **224**, 133, 2000 (I.F.= 9.965). ISSN: 0021-9797 (P), 1095-7103 (e), <https://doi.org/10.1006/jcis.1999.6681>
18. **Tanveer Alam**, P. Gairola, H. Tarannum and Kamaluddin, "Conversion of anilines to their oligomers by copper hexacyanoferrate", *Indian J. Chem. Technol.* **7**, 230, 2000 (I.F.= 0.570). ISSN: 0971-457X (P), 0975-0991 (e), <http://hdl.handle.net/123456789/22968>
19. **Tanveer Alam** and Kamaluddin, "Interaction of 2-amino, 3-amino-and 4-aminopyridines with nickel and cobalt ferrocyanides", *Colloids and Surfaces* **162**, 89, 2000 (I.F. = 5.518). ISSN:0927-7757, [https://doi.org/10.1016/S0927-7757\(99\)00248-4](https://doi.org/10.1016/S0927-7757(99)00248-4)
20. **Tanveer Alam** and Kamaluddin, "Interaction of Aminopyridines with metal hexacyanoferrates (II) ", *Bull Chem Soc. Jpn.* **72**, 1697, 1999 (I.F. = 5.121). ISSN: 0009-2673 (P), 1348-2673 (e), <https://doi.org/10.1246/bcsj.72.1697>
21. **Tanveer Alam**, H. Tarannum, S. Viladkar and Kamaluddin, "Oxidation of aniline and its derivatives by manganese ferrocyanide", *Oxidation Comm.*, **22**, 599, 1999 (I.F. = 0.527). ISSN:0209-4541
22. **Tanveer Alam**, H. Tarannum and Kamaluddin, "Removal of o-Nitrophenol and o-aminophenol by nickel, cobalt and cadmium ferrocyanides", *J. Indus. Poll. Cont.* **15**, 57, 1999 (I.F. = 0.050) ISSN: 09702083
23. **Tanveer Alam**, H. Tarannum and Kamaluddin, "Removal of 2,4-dinitrophenol and 2,4,6-trinitrophenol by nickel, cobalt and cadmium ferrocyanides", *Environment and Research* **3-4**, 7, 1998.
24. S. Viladkar, **Tanveer Alam** and Kamaluddin, "Adsorption of aromatic amines on metal ferrocyanides", *J. Inorg. Biochem.* **53**, 69, 1994 (I.F.= 4.155), ISSN: 0162-0134, [https://doi.org/10.1016/0162-0134\(94\)80021-9](https://doi.org/10.1016/0162-0134(94)80021-9).

25. **Book Chapter: “Synthesis and Biological Activity of Silver Nanoparticles from Medicinal Palm Tree *Bismarckia nobilis* Seeds” in *New Innovations in Chemistry and Biochemistry*, 2021.**

Communicated and Under Review:

26. Murtaza Gani, **Tanveer Alam** “Antinutritional factors of some minor fruits & vegetables from temperate region of Indian Himalayas” communicated to **Journal of Food Composition and Analysis**.
27. Azhar Khan, Bhawna Kashyap; Mohit Nigam; Suman Bhandary; **Tanveer Alam**; Shabirul Haque Trends and Challenges in Breast Cancer Treatment using Nanoparticles submitted to **Journal of Drug Delivery Science and Technology** 2021.

To be communicated in 2023-2024

28. B.K. Khuntia, **Tanveer Alam**, Mithlesh Kumari, M. Samim, M. F. Anwar “Synthesis & Characterization of Fe-Pd bimetallic nanoparticles, and assessment of their comparative degradation potential against DDT in soil”.
29. B.K. Khuntia, **Tanveer Alam**, Mithlesh Kumari, M. Samim, M.F. Anwar. “Synthesis & Characterization of iron oxide nanoparticles and study of their photocatalytic properties against the degradation of DDT and endosulphan”.
30. Sapna Tyagi and **Tanveer Alam**, Azhar Khan, Neha Chauhan, Hina Tarannum, Ahmad Parwez and A. Rizvi, “*Cordia myxa* mediated green synthesis of silver nanoparticles for its antibacterial, anticancer and photocatalytic activity”.
31. Sapna Tyagi, **Tanveer Alam***, Goutam Kumar, Azhar Khan, Neha Chauhan, Hina Tarannum, Ahmad Parwez, A. Rizvi, “ Anticancer and Antimicrobial potential of *Bixa orilliana* leaf extract mediated synthesized silver nanoparticles”.

Research Papers Published/Presented in Various Conference

32. Presented in oral and technical session on “Proximate Composition, Mineral Analysis and Antioxidant Capacity of Indigenous Fruits Vegetables from Temperate Region of Indian Himalayas” in **International Halich Congress** Conference held from March 12-13, 2022/ Istanbul, Turkiye.
33. Nitin Sharma, **Tanveer Alam**, Hina Tarannum and Gita Saini: Adsorptive Removal of Malachite Green from Aqueous Solution by Cadmium and Copper Ferricyanides, International Seminar on “Sustainable Environment & Agriculture under Global Climate Change” organized by Department of Environmental Science, Maharshi Dyanand University, Rohtak, Haryana, February 21, 2019, Abstract Book Page 205.
34. Gita Saini, **Tanveer Alam** and Parveen Kumar: Occurrence and Fate of Endocrine Disrupting Chemicals in ASP Based Sewage Treatment Plant in Haridwar, International Seminar on “Sustainable Environment & Agriculture under Global Climate Change” organized by Department of Environmental Science, Maharshi Dyanand University, Rohtak, Haryana, February 21, 2019, Abstract Book Page 49.
35. Participated as a member of the Advisory and Scientific Committee of the “International conference on Biomedical Engineering & Supportive Technology” held at Bundelkhand Institute of Engineering & Technology, BIET, Jhansi during 2nd and 3rd September, 2016.

36. Nitin Sharma, **Tanveer Alam*** and Hina Tarannum, Adsorptive Removal of Congo Red from Aqueous Solution by Cobalt and Copper Ferricyanides, A poster presentation 102th Indian Science Congress, ISC proceeding Chemical Science, 3-7 January, 285, 2015.
37. Presented Poster on Adsorption and Oxidation of Aromatic Amines by Manganese Ferrocyanide and Awarded Young Scientist Award in National Conference on Emerging Trends in Chemistry-Biology Interface ETCBI-2011 organized by Department of Chemistry, D.S.B Campus, Kumaun University, Nainital from 3rd November 2011 to 5th November 2011.
38. Presented Poster on Adsorption and Oxidation of Aromatic Amines by Manganese Ferrocyanide in National Conference on Recent Developments in Chemistry and Chemical Education organized by Department of Chemistry, HNB Campus, Garhwal University, Srinagar from 16th December 2011 to 17th December 2011.
39. Participated as a member of the organizing committee of the “National Conference on IPR Issues and Opportunities in Research and Education” held at IIT Roorkee, during 16th-17th Feb. 2002.
40. Interaction of manganese ferrocyanide with aromatic amines and its relevance in chemical evolution, abstract book, 11th ISSOL, 99 meeting, San Diego, California, July 11-16, 1999.
41. Interaction of manganese ferrocyanide with aromatic amines and its relevance in chemical evolution, abstract book, 11th ISSOL 99 Meeting, San Diego, California, July 11-16, 1999.
42. Oxidation of aromatic amines by insoluble ferrocyanides, abstract book P.73, 83rd session of Indian Science Congress, Patiala, Jan. 4-8, 1996.
43. Interaction of aniline with metal ferrocyanides and its implication in chemical evolution abstract book P.56, 10th International conference on Origins of Life, Barcelona, Spain, July 4-9, 1993.
44. Interaction of aniline with metal ferrocyanides and its implication in chemical evolution, Abstract book P.56, 10th International Conference on the origins of life, Barcelona, Spain, July 4-9, 1993.