



### **CURRICULUM VITAE**

1. Name : **Dr. Anjali Goel**
2. Designation : Professor and Incharge
3. Department : Department of Chemistry,  
Kanya Gurukul Campus,  
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PIN: 249407
4. Date of birth : 25.10.1961
5. Postal address : 9 –Sharad Vihar,  
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[anjali.goel@gkv.ac.in](mailto:anjali.goel@gkv.ac.in)
7. Academic qualification : M.Sc., Ph.D.
8. Experience
  - (i)Teaching : approx. 25years
  - (ii)Research : approx. 29 years

9. Research field / Specialization : (1) Nanomaterials in water pollution studies  
(2) Kinetic mechanistic study of organic reactions
10. Research guidance at Ph.D. level : 17 students awarded &  
05 more registered
11. Research Project : One UGC Project completed
12. Invited Talks : 10
13. Research papers published : 61
14. Chapters in books : 09
15. Conferences/workshops attended : 36
16. Membership/Reviewer of academic bodies:
  1. Life fellow, Indian Science Congress Association, Kolkata
  2. Life fellow, Indian Chemical Society, Kolkata
  3. Life fellow Indian Association of Chemistry Teachers
  4. Life Fellow, Indian Science Congress Association- Haridwar Chapter
  5. Reviewer, American Chemical Society Journal Inorganic Chemistry.
  6. Reviewer, Journal Chemical Engineering and Material Sciences
17. **Research Publications:**
  1. Ir-Ni based mono and bimetallic nanocrystals: synthesis, characterization and effect of cationic, anionic, and non-ionic stabilizers, Current Chemistry Letters, Anjali Goel ,

Shikha, Shivani and Sudha Tomar , 2021, 10, 209-220, ISSN: 1927-7296, [Scopus Indexed] Impact factor-0.84.

2. A facile synthesis and characterization of surfactant (CTAB/TSC/TX-100) assisted Ir-Sn bimetallic nanoparticles. J. Nanostruct, Anjali Goel, Sudha Tomar, Shikha, 2020; 10(4): 846-862. ISSN: 2251-7871, DOI: 10.22052/JNS.2020.04.018. [Scopus Indexed] Impact Factor: 1.33.
3. Synthesis characterization and spectral studies of surfactant (PVP, CTAB and SDS) based ultrafine Ir-Cu bimetallic nanoparticles, Anjali Goel, Pooja, International Journal of Nanoparticles, UGC listed, [Scopus Indexed], ISSN-1753-2515, IF 0.38, DOI: 1504/IJNP.2021.10034842, accepted (now in press).
4. Nickel (0) nanoparticles catalyst for effective degradation of Carmoisine A in aqueous alkaline medium by using hexacyanoferrate (III) ions as a reductant: A kinetic study, Anjali Goel, Shivani, Pollution Research( Accepted & will be published 2021 (3) Issue, ISSN 0257 – 8050, Scopus h- index 22, UGC Care List, NAAS India impact rating 4.97.
5. Ir-M (M = Sn, Ni & Cu) bimetallic nanoparticles as low-cost catalysts for oxidative degradation of orange IV azo dye, Inorganic and Nano-Metal Chemistry(Taylor Francis online), Anjali Goel, Abhilasha, Shivani, 2021, 51(3) article link: <https://doi.org/10.1080/24701556.2020.1790001>, Online ISSN : 2470-1564 [Scopus Indexed], Impact Factor: 0.78(2019).
6. Synthesis, characterization and spectral studies of surfactant (PVP, CTAB and SDS)-based ultrafine Ir-Cu bimetallic nanoparticles, International Journal of Nanoparticles Anjali Goel, Pooja, 2020, Accepted, ISSN : 1753-2507 [Scopus Indexed], Impact Factor: 0.38(2020).

7. A novel method for oxidative degradation of metanil yellow azo dye by hexacyanoferrate(III) ions, Water Environment Research, Anjali Goel, Manu Chaudhary, 91, 69-74 (2019) ISSN : 15547531 [Scopus Indexed], Impact Factor: 0.96(2018).
8. A novel method for the removal of azo dye methyl red by oxidative degradation: A kinetic study, Pollution Research, Anjali Goel, Pooja, 38(1) 157-161 (2019), ISSN: 0257-8050 [Scopus Indexed], Impact Factor: 0.21
9. Ultrasonic investigations of molecular interactions in aqueous alkaline solution of mono azo dye metanil yellow and hexacyanoferrate(III) ions, International Journal for Environmental Rehabilitation and Conservation, Anjali Goel, Manu Chaudhary, IX (2): 01-06 (2018), ISSN: 0975-6272 UGC approved.
10. Highly dispersed PVP supported Ir-Ni bimetallic nanoparticles as high performance catalyst for degradation of metanil yellow, Bulletin of Material Science, Anjali Goel, Manu Chaudhary, 41(81),1-8 (2018) ISSN-0973-7669 [Scopus Indexed], Impact Factor: 1.34(2018).
11. Facile synthesis of IrO<sub>2</sub> nanoclusters and their application as catalyst in the degradation of azo dyes, Turkish Journal of Chemistry, Rajni Lasyal, Anjali Goel, 42, 941-957
12. (2018), ISSN – 13000527, [Scopus Indexed] Impact Factor:1.29.
13. Standard operating procedure of jahar mohra pishti: A potent cardio tonic, International Journal of Ayurveda and Pharma Research(IJAPR), Peeyush Kaushik, Meena Rani Ahuja, Akanksha Tyagi, Dinesh Bhatt, Anjali Goel, 4(8) 37-42, (2016), ISSN:2322-0902(P), 2322-0910(O).

14. Iridium nanoparticles with high catalytic activity in degradation of acid red-26: An oxidative approach, Water Science and Technology, Anjali Goel, Rajni Lasyal, 74.11, 2551-2559 (2016) ISSN-(1996-9732), [Scopus Indexed], Impact Factor:1.55(2018)
15. Mechanistic insight into oxidative degradation of some azo dyes with kinetic and thermodynamic analysis, Journal of Indian Chemical Society, Anjali Goel, Rajni Lasyal, Abhilasha, 93,621-625, (2016), ISSN- 0019-4522[Scopus Indexed], Impact Factor: 0.14(2018).
16. A kinetic and Mechanistic Study on Degradation of Acid Orange-IV Using HCF (III) ions in Aqueous Alkaline Medium, International Journal of Theoretical and Applied Science, Anjali Goel, Abhilasha, 8(2), 76-81 (2016) ISSN-(0975-1718) E-ISSN-2249-3247, [UGC approved], Impact Factor: 3.00.
17. Degradation of orange G dye by hexacyanoferrate(III) ions in presence of iridium nanoparticles: effect of system parameters and kinetic study, Desalination and water Treatment (Taylor & Francis), Anjali Goel, Rajni Lasyal, 57(37),17547-17556(2016) ISSN: 1944-3994 (Print) 1944-3986 (Online) [ Scopus indexed], Impact Factor: 1.36(2018).
18. Degradation of azo dye, acid red-14, by hexacyanoferrate(III) using iridium nano clusters: A kinetic study, Asian Journal of Chemistry, Anjali Goel, Rajni Lasyal, 28(02), 335-338(2016), ISSN: 0970-7077(Print), [Scopus Indexed] Impact factor; 0.45.
19. Effect of morphology and dispersibility of silica nanoparticles on the mechanical behavior of cement mortar, L. P. Singh, Anjali Goel, S.K. Bhattacharya, S. Ahlawat, Usha Sharma and Geetika Mishra, Int. J. Concrete Structures and Materials, 9(2), 207-217 (2015) ISSN 2234-1315[Scopus Indexed] Impact factor:2.031.

20. Quantification of hydration products in cementitious materials incorporating silica nanoparticles, L.P. Singh, Anjali Goel, S.K. Bhattacharya, Geetika Mishra; Front. Struct. Civ. Eng., DOI 10.1007/s 11709-0315-9 (2015) ISSN 2095-2430(Print), 2095-2449(E) [Scopus Indexed] SNIP 0.721, SJR 0.458.
21. Hydration studies of cementitious material using silica nanoparticles, L.P. Singh, Anjali Goel, S.K. Bhattacharya, S. Ahlawat, Usha Sharma and Geetika Mishra, J. Advanced Concrete Technology, 13, 345-354, (2015) ISSN;1346-8014[Scopus Indexed] Impact factor: 0.93.
22. Optimization of coating process Parameters by Design of Experiment(DOE). Neetu Rani, Anjali Goel, International J. Pharm Tech Research, 8, 3, (2015), ISSN: 0974-4304, [Scopus Indexed], Impact Factor: 0.852.
23. Kinetic and mechanistic study of the oxidation of orange-II by hexacyanoferrate (III) ions catalyzed by iridium nano-clusters, Anjali Goel, Ranjana Bhatt, Rajni Lasyal, International Journal of Chemical Sciences, 12(4),1527- 1537, (2014) ISSN- 0972-768 X, [Scopus indexed] Impact factor: 0.6.
24. Effect of nanosilica on chloride permeability in cement mortar, Lok Pal Singh, Anjali Goel, S.K. Bhattacharya, S. Ahalawat, Usha Sharma, Geetika Mishra, Advances in Cement Research, 27(7) 399-408 (2015), ISSN - 0951 – 7197, E-ISSN-1751-7605 [Thomson Reuters] Impact Factor: 0.949.
25. A case study on Rubia cordifolia L in film coating of Triphala Guggle Ayurvedic tablets, Neetu Rani, Anjali Goel, M.K. Bhardwaj, International Journal of Pharmaceutical Sciences and Research(IJPSR), Vol. 5(7) (2014), 2927-2935. E-ISSN: 0975-8232; P-ISSN: 2320-5148, [Thomson Reuters] Impact factor: 2.6.

26. Iridium(III) catalysed oxidation of threonine by hexacyanoferrate(III) in aqueous alkaline medium, Anjali Goel, Ruchi Sharma, Rajni Lasyal, International J. Scientific and Engineering Research, 4(7) 1978-1984 (2013), ISSN: 2229-5518, [Thomson Reuters] Impact Factor: 3.8.
27. Microgram determination of iridium (III) by kinetic spectrophotometric method, Anjali Goel, Shakunj, Discovery, 2(5) 34-36, (2012) ISSN-2278-5469.
28. Synthesis and characterization of nanoscale colloidal iridium metal clusters by chemical reduction method using monohydric and dihydric alcohols, Anjali Goel, Ranjana Bhatt, International Journal of Chemistry and applications, 4(2) 111-121, (2012) ISSN- 0974-3111.
29. Estimation of Iridium (III) using amino acid – hexacyanoferrate(III) redox reaction, Shakunj Savita, Anjali Goel, International Transactions in Applied Sciences, 4(2) 367-373 (2012), ISSN 0974-7273 (print), 0975-3761 (online).
30. Removal of methyl orange, an azo dye, using oxidative degradation by hexacyanoferrate(III) ions, Anjali Goel, Ranjana Bhatt, Neetu Rani, Discovery Science, 2(4), 32-36 (2012), ISSN-2278-5485, EISSN-2278-5477, Impact Factor: 0.403.
31. A kinetic and mechanistic study on the oxidation of arginine and lysine by hexacyanoferrate(III) catalyzed by iridium (III) in aqueous alkaline medium, Anjali Goel, Ruchi Sharma, J. Indian Chem. Soc., 89(9) 1191-1196, (2012) ISSN: 0019-4522, [Scopus Indexed] Impact factor; 0.466.
32. Effect of PVP, PVA and POLE surfactants on the size of iridium nanoparticles, Open Journal of Inorganic Chemistry, Anjali Goel, Neetu, 2, 67-73, (2012) ISSN-2161-7406, Impact Factor: 0.8.

33. Colloidal iridium nanoparticles in the oxidation by hexacyanoferrate(III) in alkaline medium- A kinetic study, Anjali Goel, Sonia Sharma, Journal of Indian Chemical Society, 89(4), 507-512, (2012) ISSN: 0019-4522, [Scopus Indexed] Impact factor; 0.466.
34. A kinetic study on the oxidation of glycine by hexacyanoferrate(III) ions in presence of iridium nanoparticles, Anjali Goel, Sonia Sharma, J. Chem. Bio. Phy. Sci. Sec. A, 2(2) 628-636, (2012) e- ISSN: 2249-1929, Impact Factor: 1.31.
35. Kinetics studies on nanocatalysis in some oxidation reactions, Anjali Goel, Ranjana, Neetu, International Journal of Research in Chemistry and Environment, 2(1), 210-217, (2012) ISSN: 2248-9649, Impact Factor: 0.654.
36. Mechanistic Aspect of Ir(III) Catalysed Oxidation of Serine by Hexacyanoferrate(III) in alkaline medium: A kinetic study, Journal of Natural & Physical Sciences, Anjali Goel, Rajni Lasyal, 25(1&2), 20XX, ppXX, , ISSN: 097-3799.
37. Application of turmeric dye in the coating of Triphalagugguleayurvedic tablet, Anjali Goel, M.K. Bhardwaj and Neetu Rani, Journal of Applied and Natural Science, 3(2) 2011, 307-311, ISSN; 0974-9411(print), 2231-5209(online).
38. Kinetic and mechanistic study of oxidation of cystine by hexacyanoferrate(III) ions catalysed by Ir III in aqueous alkaline medium, Anjali Goel, Savita Gupta, J. Indian Chem. Soc. 88 (2) 2011, 211-215, ISSN: 0019-4522, Impact factor; 0.466(2011), [SCI/Scopus Indexed] SNIP 0.466, SJR 0.234(2011).
39. Brij - 35 catalysis in the oxidation of amino acids by alkaline hexacyanoferrate(III) ions, Anjali Goel, Richa Tyagi, Sonia Sharma, and Shivani, J. of Chemistry in Asia, 2(1), 2011, 32-34, ISSN: 0975-9468.



40. Mechanistic study of the oxidation of L- phenylalanine by hexacyanoferrate(III) catalysed by iridium(III) in aqueous alkaline medium, Anjali Goel, Shivani Sharma, Transition Metal Chemistry, 35(5), 2010, 549-554, ISSN-0340-4285, Impact factor: 0.963(2010) [ Scopus indexed] SNIP 0.963 SJR 0.409(2010).
41. Influence of Brij-35 micelles on the oxidation of glycine by hexacyanoferrate(III) in aqueous alkaline medium, Anjali Goel, Richa Tyagi, J. Indian Chem. Soc., 87, 2010, 1335-1339, ISSN: 0019-4522, Impact factor; 0.466(2011), [SCI/Scopus Indexed] SNIP 0.466, SJR 0.234(2011).
42. Synthesis and characterization of nano crystalline iridium oxide, Anjali Goel, Sonia Sharma, International Transactions in Applied Sciences, 1(2) 2009, 243-251, ISSN: 0974-7273.
43. Kinetic-catalytic spectrophotometric determination of Ir(III) by its catalytic effect in the oxidation of isoleucine by hexacyanoferrate(III) ions, Anjali Goel, Savita Gupta and Sonia, International Transactions in Applied Sciences, 1(4), 2009, 559-566, ISSN-0974-7273.
44. Kinetics and mechanism of iridium (III) catalysed oxidation of some amino acids by hexacyanoferrate(III) ions in aqueous alkaline medium, Anjali Goel, Shakun, Shivani, Int. J. Chem. Sci.: 6(4), 2008, 1891-1899, ISSN- 0972-768 X, Impact factor: 0.23(2012). [ Scopus indexed].
45. Kinetics and mechanism of oxidation of some aldoses by hexacyanoferrate (III) in aqueous alkaline buffered medium, Anjali Goel, Shailja, J. Indian Chem. Soc., Vol. 85, 2008, 286-289, ISSN: 0019-4522, Impact factor; 0.466(2011), [SCI/Scopus Indexed] SNIP 0.466, SJR 0.234(2011).

46. Kinetic spectrophotometric determination of iridium (III) in alkaline medium, Anjali Goel, Shakun, Asian J. Chemistry, 19, 5, 2007, 3431- 3434, ISSN-0970-7077, Impact factor; 0.994(2002), 0.406(2013), [SCI/Scopus Indexed] Peer reviewed, international journal, online and print, SJR 0.15, SNIP 0.249 SJR 0.165(2012).
47. Biogas from organic waste diluted with sugar mill waste water, Anjali Goel, Savita Gupta Asian J. Chemistry, 19, 5, 2007, 3435 – 3439, ISSN-0970-7077, Impact factor; 0.994(2002), 0.406(2013), [SCI/Scopus Indexed] Peer reviewed, international journal, online and print, SJR 0.15, SNIP 0.249 SJR 0.165(2012),
48. Spectrophotometric determination of Ir (III) with cystine in alkaline medium, Anjali Goel, J. Natural and Physical Sciences, 2007, Vol. 21, ISSN – 097-3799.
49. A case study on characterization, treatment and utilization of Deoband sugar mill effluent. Anjali Goel, Mannu, Richa Tyagi, Jr. Industrial Pollution Control, 23(2), 2007, 373 – 37, ISSN- 0970-2083.
50. Oxidation of glucose by hexacyanoferrate (III) ions in presence of disodium hydrogen orthophosphate in aqueous alkaline medium- a kinetic and mechanistic study, Anjali Goel, Shailja, Int. J. Chem. Sci., 4 (4), 2006, 807 – 812, ISSN- 0972-768 X, Impact factor: 0.23(2012). [ Scopus indexed].
51. Iridium(III) catalyzed oxidation of propane-1,2-diol by hexacyanoferrate(III) in aqueous alkaline medium a kinetic and mechanistic study, Anjali Goel, Manisha Chauhan, Shailja, Asian J. Chem., 18, 2, 2006, 1116- 1120, ISSN-0970-7077, Impact factor; 0.994(2002), 0.406(2013), [SCI/Scopus Indexed] Peer reviewed, international journal, online and print, SJR 0.15, SNIP 0.249 SJR 0.165(2012).
52. Kinetics and mechanism of iridium (III) chloride catalyzed oxidation of propanol -1 and

- Propanol -2 by hexacyanoferrate (III) in aqueous alkaline medium, Anjali Goel, Manisha Chauhan, J. Curr. Sci., 7(1), 2005, 231, ISSN - 0972-6101.
53. A kinetic study of iridium(III) chloride catalyzed oxidation of some diols by alkaline hexacyanoferrate(III) in aqueous medium, Anjali Goel, G.R. Verma, S.K. Seth, Int., J. Chem. Sci., 3(3), 2005, 537-541, ISSN- 0972-768 X, Impact factor: 0.23(2012). [ Scopus indexed].
54. Effect of ferricyanide on the physico-chemical characteristics of sugar mill effluent, Anjali Goel, Mannu, Indian J. Environ. & Ecoplan., 8(1), 2004, 147-148, ISSN- 0972-1215.
55. A kinetic study of iridium(III) chloride catalyzed oxidation of diethylene glycol by hexacyanoferrate(III) in aqueous alkaline medium, Anjali Goel, Manisha Chauhan, Asian J. Chem., Vol. 16(2), 2004, 1200-1202, ISSN-0970-7077, Impact factor; 0.994(2002), 0.406(2013), [SCI/Scopus Indexed] Peer reviewed, international journal, online and print, SJR 0.15, SNIP 0.249 SJR 0.165(2012).
56. Kinetics and mechanism of iridium(III) chloride catalyzed oxidation of ethylene glycol and methyl glycol by hexacyanoferrate(III) in aqueous alkaline medium, Anjali Goel, G.R. Verma, H.S. Singh, J. Indian Chem. Soc., 79, 2002, 665-667, ISSN: 0019-4522, Impact factor; 0.466(2011), [SCI/Scopus Indexed] SNIP 0.466, SJR 0.234(2011).
57. Studies on some physico- chemical characteristics of ground water in some rural areas of Hardwar, Anjali Goel, Asian J. Chem., 4, 2002, 537 – 539, ISSN-0970-7077, Impact factor; 0.994(2002), 0.406(2013), [SCI/Scopus Indexed] Peer reviewed, international journal, online and print, SJR 0.15, SNIP 0.249 SJR 0.165(2012).

58. Kinetics of iridium (III) catalyzed oxidation of butane 1:4 diol with alkaline hexacyanoferrate (III), Anjali Goel, S.K. Seth, G.R. Verma, H.S. Singh, Asian J. Chem., 13 (2), 2001, 505-508, ISSN-0970-7077, Impact factor; 0.994(2002), 0.406(2013), [SCI/Scopus Indexed] Peer reviewed, international journal, online and print, SJR 0.15, SNIP 0.249 SJR 0.165(2012).
59. Kinetics and mechanism of the oxidation of ethyl glycol, D- mannitol, D- sorbitol by hexacyanoferrate (III) ions in aqueous alkaline medium, Anjali Goel, H.S. Singh, G.R. Verma, Archana Gupta, J. Indian. Chem. Soc., 76, 1999, 392 – 394, ISSN: 0019-4522, Impact factor; 0.466(2011), [SCI/Scopus Indexed] SNIP 0.466, SJR 0.234(2011).
60. Kinetics and mechanism of oxidation of ethyl glycol by alkaline hexacyanoferrate(III) ions, Anjali Goel, G.R. Verma, H.S. Singh, Asian J. Chem., 11, 4, 1999, 1353 -1356, ISSN-0970-7077, Impact factor; 0.994(2002), 0.406(2013), [SCI/Scopus Indexed] Peer reviewed, international journal, online and print, SJR 0.15, SNIP 0.249 SJR 0.165(2012).
61. Kinetics and mechanism of iridium (III) chloride catalyzed oxidation of butyl diglycol by alkaline hexacyanoferrate (III) in aqueous alkaline medium, Anjali Goel, G.R. Verma, H.S. Singh, Him. J. Env. Zool., 11, 1997, 103 – 108, ISSN- 0970-1215.

## **17. Articles/chapter in books published**

1. Kinetic studies on nanocatalysis by iridium nanoclusters in some oxidation reactions(chapter in book), Environmental Biotechnology by D.R.Khanna, A.K.Chopra, Gagan Matta, Vikas Singh, Rakesh Bhutiani, BIOTECH BOOKS, 2013, 55-66.
2. Suitabilty of curcumin pigment in the coating of triffla guggul ayurvedic tablets, Environmental Biotechnology by D.R.Khanna, A.K.Chopra, Gagan Matta, Vikas Singh, Rakesh Bhutiani, BIOTECH BOOKS,2013, 67-77(Chapter in book)

3. Non- conventional defluoridation technologies in sustainable management of drinking water resources : A review, D.S.Malik, Preetika Shukla, Anjali Goel and M.K. Sharma, Water Pollution and management, editors-D. S. Malik, Sunil Kumar, Umesh Bharti, Biotech Books, pp-181-191.ISBN : 978-81-7622-227-3.
4. ManavVikaas Mein RasayanVigyanKaaYogdaan, Dr. Anjali Goel, GurukulmPatrika, Oct-Dec. 2011, 195, ISSN 0976-8017.
5. Consequences of Global Warming, Anjali Goel, Ranjana,review article, International Journal of Life Sciences Biotechnology and Pharmareseach, 1(1) 2012, 27-31, ISSN: 2250-3137.
6. Synthesis of colloidal iridium nanoparticles and their roles as catalyst in homogeneous catalysis- An approach to green chemistry Chemistry. Anjali Goel, Sonia Sharma, Chemistry of Phytopotentials: Health, Energy and Environmental,A chapter in Springer Book, Editors- L.D.Khemani, M.M.Shrivastava and ShaliniShrivastava, 357, 2011.
7. Catalysis by iridium nanoclusters, Souvenir, 27<sup>th</sup> Annual Convention of Indian Council of Chemists, 26<sup>th</sup>-28<sup>th</sup> Dec,, 2008, GurukulKangri University, Hardwar(Uttrakhand) pp-55.
8. Course Book, B.Sc. IInd, Organic Chemistry, Faculty of Distance Education, GKV, Hardwar, 2005.
9. Jal ka rasayanik Mahatva, Gurukul Samachar, Nov.5, 1999, 11.

## 18. Invited Lectures

1. Highly dispersed surfactant supported Ir-M (Ni & Cu) bimetallic nanoparticles as high performance catalyst in degradation of some azo dyes, RADFM-2019, Department of Chemistry, VKS University, Ara and H. D. Jain College, VKS University, Ara-802301, Dec 9th & 10th, 2019.
2. Synthesis of bimetallic iridium nanoclusters and their application in degradation of some azo dyes, The Indian Science Congress Association, Sri Venkatesh University, Tirupati(Arunachal Pradesh), 3-7<sup>th</sup> January, 2017.
3. A novel method for the degradation of some azo dyes using iridium metal as catalyst, National conference on science and Technology for National Development, Department of Chemistry, Gurukul Kangri University, Hardwar, 20-22 Nov., 2016.
4. Catalytic activity of iridium nanoclusters in the degradation of Acid Red-26, UGC Sponsored National Workshop on Green Chemistry Practices in Teaching, Research and Industry,,: Essential Commitment for the Next Generation, Department of Chemistry, Pt. L. M. S. Govt. PG(Auto.) College, Rishikesh, March 30, 2016.
5. New kinetic – spectrophotometric method for iridium estimation using oxidation of some amino acids, National Conference on Innovation Science and & technology for human development organized by Indian Science Congress Association-Hardwar Chapter and Department of Ancient Indian History, Culture and Archaeology, GKV, Hardwar , March 20-21st, 2015.
6. Stability, kinetic & optimization study of coating of TGA tablets using natural colorant, National Conference on Innovation in Science and & technology for inclusive

development , by ISCA-Haridwar Chapter and Department of Chemistry, CCS  
University, Meerut, , 22-2<sup>3rd</sup> March,2014.

7. Natural colors in coating of triphla guggle ayurvedic tablet, Recent advances in Bioscience & Drug Discovery, Dept. of Pharmaceutical & Ayurvedic Medicinal Science Gurukul Kangri University, Haridwar, 3-4<sup>th</sup> March,2014.
8. Iridium Nanoparticles-Novel Catalyst in oxidation reaction, National Symposium on Innovation in Science & Technology for inclusive Development, Indian Science Congress Association-Haridwar Chapter & Department of Chemistry, GKV, Haridwar, 16/2/2014.
9. Role of nanoparticles in green chemistry, National Conference on Electrochemistry for Cleaner Environment, Department of Chemistry, Jiwaji University, Gwalior, Jan.17-18,2014.
10. Concept Of Nanotechnology, Department of Ras Shastra, Rishikul Ayurvedic College, Haridwar(2013).

**19. List of conferences/seminars/workshop/symposia attended and paper presented:-**

1. National Seminar on Hazards of Adulterations in milk, food and medicines of India, 2<sup>nd</sup> Nov. 1999, Chinmaya Degree College, Haridwar.
2. Thirty-seventh Annual Convention of Chemists, 2000, (Indian Chemical Society, Kolkata), Nov. 15-18,2000, Gurukul Kangri University, Haridwar.
3. National workshop on Radiochemistry and application of radioisotopes, April 29 to May 07, 2003, HNB Garhwal University, Srinagar (Garhwal).
4. 91<sup>st</sup> session of Indian Science Congress, January 03-07, 2004, Punjab University, Chandigarh.

5. National seminar on “Bharatvarsh kea aviralvikasmein jalsansadhnokibhumika”  
September 26-27, 2007, National Institute of Hydrology, Roorkee.
6. National Conference on “Greener Aspects of Electrochemistry”, December 07-09, 2007,  
Jiwaji University, Gwalior (MP).
7. 44<sup>th</sup> Annual Convention of Chemists, 2007, Indian Chemical Society, December 23-27,  
2007, Mahatma Gandhi Institute of applied Science, Jaipur (Raj.).
8. National Convention of Chemistry Teachers-08, November 08-09, 2008, H.N.B. Garhwal  
University, Srinagar.
9. 27<sup>th</sup> Annual Convention of Indian Council of Chemists, December 26<sup>th</sup>-28<sup>th</sup>, 2008,  
Gurukul Kangri University, Haridwar (Uttarakhand).
10. 4<sup>th</sup> Uttarakhand State Congress of Science and Technology, November 10-12, 2009, G.B.  
Pant University, Uttarakhand.
11. World Veda Conference, November 20-22, 2009, Gurukul Kangri Vishwavidyalaya,  
Haridwar.
12. 2<sup>nd</sup> National Seminar on Recent Trends in Advancement of Mathematical & Physical  
Sciences, D.N. College, Meerut, 30-31 Jan., 2010
13. Recent Trends in Chemical Research (RTCR), 4-6 September 2010, Meerut College,  
Meerut.
14. National Conference of Green Chemistry (GCMS), 22-23<sup>rd</sup> Jan 2011, MMH (PG)  
College, Ghaziabad.



15. International Conference on Chemistry of Phytopotentials: Health, Energy and Environmental Perspectives-2011, (CPHEE-2011) Dayalbagh Educational Institute (Deemed University), Dayalbagh, Agra, India. 4-6 November, 2011
16. Word Congress for Man and Nature, (WCMANU-11) GKV, Hardwar 11-13 Nov., 2011.
17. International Conference on Green Technologies for Environmental Rehabilitation, GTER, GKV, Hardwar, 11-13 Jan. 2012.
18. Status of Environment and Biodiversity: RIO and Role of Space Technology, Department of Zoology, GKV, Hardwar, 2-3 Nov., 2012.
19. Emerging Trends & development in science, management & technology. (ESTDSMT-2013), Raj Kumar Goel Institute of Technology, Ghaziabad, 11-12 March, 2013.
20. Emerging Trends in engineering and sciences (ETES- 2013), Department of mechanical engineering, faculty of engineering and technology, Gurukul Kangri University, Haridwar, 9-11<sup>th</sup> No. 2013.
21. National Conference on Electrochemistry for Cleaner Environment, Department of Chemistry, Jiwaji University, Gwalior, Jan. 17-18, 2014
22. National Symposium on Innovation in Science & Technology for inclusive Development, Indian Science Congress Association-Hardwar Chapter & Department of Chemistry, GKV, Hardwar, 16/2/2014.
23. Recent advances in Bioscience & Drug Discovery, Dept. of Pharmaceutical & Ayurvedic Medicinal Science, Gurukul Kangri University, Hardwar, 11-12<sup>th</sup> March, 2014.
24. National Conference on Innovation in Science and & technology for inclusive development, by ISCA-Haridwar Chapter and Department of Chemistry, CCS University, Meerut, 22-23<sup>rd</sup> March, 2014.

25. Regional Symposium on Technovations for inclusive Human Development” organized by Indian Science Congress Association-Hardwar Chapter at FET, GKV, Hardwar , Oct.12<sup>th</sup>, 2014.
26. 4<sup>th</sup> National Conference on Recent Advances in Chemical and Environmental Sciences( Science for Nation Building), Department of Chemistry, Arya PG College, Panipat(UP), Feb. 27-28, 2015.
27. National Conference on Innovation Science and & technology for human development organized by Indian Science Congress Association-Hardwar Chapter and Department of Ancient Indian History, Culture and Archaeology, GKV, Hardwar , March 20-21<sup>st</sup>,2015.
28. National seminar on “Science and Technology for Indigenous Development of Human being” organized by Indian Science Congress Association-Hardwar Chapter at FET, GKV, Hardwar , Sept.28-30<sup>th</sup>, 2015.
29. UGC Sponsored National Workshop on Green Chemistry Practices in Teaching, Research and Industry,,: Essential Commitment for the Next Generation, Department of Chemistry, Pt. L. M. S. Govt. PG College, Rishikesh, March 30, 2016.
30. National seminar on “Science and Technology for National Development” organized by Indian Science Congress Association-Hardwar Chapter at Department of Chemistry, GKV, Hardwar, Nov. 20-22, 2016.
31. The Indian Science Congress Association, Sri Venkatesh University, Tirupati(Arunachal Pradesh), 3-7<sup>th</sup> January, 2017.
32. Highly dispersed surfactant supported Ir-M (Ni & Cu) bimetallic nanoparticles as high performance catalyst in degradation of some azo dyes, RADFM-2019, Department of

Chemistry, VKS University, Ara and H. D. Jain College, VKS University, Ara-802301,  
Dec 9th & 10th, 2019.

33. Attended 03 Days National Workshop on “Creating and Using Learning Management Systems”, 22-24 Jan., 2020, Teaching Learning Centre (TLC), Sri Lal Bahadur Shastri Rashtriya Sanskrit Vidyapeeth, New Delhi.
34. 10<sup>th</sup> Conference of Indian Science Congress Association - Haridwar Chapter on Science and Technology: Rural Development, 15-16 Feb., 2020, Department of Chemistry and Department of Physics, Gurukul Kangri University, Haridwar.
35. How to manage stress through diet and Ayurveda in covid-19 situation, Live Webinar, 15<sup>th</sup> May 2020, Faculty of Management Studies, Gurukul Kangri University, Haridwar.
36. National level webinar on Modern Methods for Remote Teaching – Learning Practices, 20, 22 & 25 May 2020, Faculty of Engineering & Technology in association with SWAYAM-NPTL committee, Gurukul Kangri University, Haridwar,

**(Dr. Anjali Goel)**