CURRICULUM VITAE

PERSONAL INFORMATION:

Full Name:	**Dr.Anupreet Kaur**
Nationality:	INDIAN
Marital Status:	Unmarried
Permanent Address:	#285, Vidya Nagar, Opp. Punjabi University, Patiala Punjab-147002, INDIA
Mailing Address:	#285, Vidya Nagar, Opp. Punjabi University, Patiala Punjab-147002, INDIA
E-mail:	anupreetchem@pbi.ac.in, preetanuleo@gmail.com
Mob. No.:	9501095705

RESEARCH INTEREST: Synthesis of nanoparticles and their modification with different chelating reagents and various techniques working for the preconcentration of environmental pollutants.

EDUCATION: **B. Sc.,** M.Sc, Ph.D chemistry

RESEARCH TOPIC OF Ph.D : Synthesis of Nanoscavengers for the preconcentration and spectrophotometric determination of some heavy toxic metals.

TEACHING EXPERIENCE: (a) (B.Tech, B.Sc, M.Sc and Ph.D classes).

(1) Worked as Assistant professor University in College of Engineering, Punjabi, University -Patiala (2008-2012).

(2) From 2012-2013-University College Chunni kalan.

(3) From 2013-2014 May as assistant professor in Sri Guru Granth Sahib World University-

Fatehgarh Sahib.

(4) From May 2014 to till now Basic and Applied Sciences, Punjabi University-Patiala.

(b) M.Phil./M.Tech Students guided: 05

SUBJECT TAUGHT:

List of Papers/Courses taught at P.G. and U.G. Level

S. No.	Paper	Class
1.	Applied chemistry	B.Tech
2.	Physical chemistry	B. Sc., M.Sc. Hons.
3.	Inorganic chemistry	M.Sc. Hons.
4.	Environmental chemistry	M.Sc Hons.
5.	Nanochemistry	Ph.D Course work
6.	Analytical techniques and Recent topics in chemistry	Ph.D Course work
7.	Applied Chemistry Lab	B.Tech
8.	Physical chemistry Lab	M.Sc Hons.
9.	Inorganic chemistry	M.Sc Hons.
10.	Nanochemistry Lab	Ph.D Course work

BOOKS/CHAPTER:

S.No	Title with Page No	Date of Publication	Book Title editor & Publisher	ISSN/ ISBN No.	Whether Peer Reviewed	Nos. of co-author	Whether you are the main author

1.	SPNE of organochlorine pesticide by organonanocomposties silica	2014	Lambert publisher	**978-3-659-54382-1**	**yes**	single	**Main**
2.	Wiley interscience Advanced materials series Book chapter: Nanoparticles for trace analysis of Toxins: Present and Future scenrio	2016	Wiley interscience	**978-1-118-77343-7**	**Yes**	two	**Main**
3.	Unistar's chemistry engineering lab manual, Ist year B.Tech Text book	2017	Unistar international publisher	**978-93-5113-788-7**	**Yes**	single	**Main**
4.	CRC Press Advanced nanomaterials for waste water remediation edited by Ravindra Kumar Gautam Book chapter: Nanomaterials applications for environmental remediation	2017	CRC press Florida	**978-1-4987-5333-3**	**Yes**	single	**Main**
5.	Nova publications, NewYork, USA Advances in nanotechnology, vol 22 Book chapter: Engineering nanomaterials : a risk toxicity assessment	2017	Nova publications NewYork, USA	**Process**	**Yes**	Single	**Main**
6.	Taylor Francis Encyclopedia of polymer applications	2017	Taylor Francis New York	**ISBN:978-1-4987-2993-3**	**Yes**	single	**Main**

	Edited by Dr. Munmaya Mishra Book chapter: Conducting polymers: applications as sensors						
7.	Springer publication Microbial action on hydrocarbons Book chapter: Microbial degradation of hydrocarbons in the ecosystem	2017	Springer, Singapore	**ISBN:978-981-13-1840-5**	**Yes**	Single	**Main**
8	Nanoscavengers for the waste water remediation,	2019	Springer, Singapore, ISBN: 978-981-15-9238-6 Book name: New Frontiers of Nanomaterials in Environmental Science	**Published**	**Yes**	Single	**Main**
9.	Nanopesticides in Agriculture	2019	Springer, Singapore Springer, Singapore, ISBN: 978-981-15-9238-6 Book name: New Frontiers of Nanomaterials in Environmental Science	**Published**	**Yes**	Single	**Main**
10.	Study of carbon Quantum dots as smart materials for environmental applications	2021	Elsevier ISBN: 978-0-12-820783-3	**Published**	**YES**	Two	**Main**

LIFE TIME MEMBER OF SOCIETIES: **(1) Punjab Academy Sciences (L-1422)(life member)**

WORKSHOPS/SHORTTERM COURSES : (1) Seven Days National Workshop on" Financial, Legal and Social Awareness Among Teachers" from **9th Jan to 15th Jan 2018**, in women studies center, Punjabi University, Patiala.

(2) TEQIP-III sponsored one day workshop on Advanced Functional Materials **March, 17th, 2018**. Organized by Department of Applied Sciences, Punjab Engineering College (Deemed to the University), Chandigarh-160012 (India).

(3) International workshop on "Nanostructured metal oxides for sensing and environmental applications" under GIAN **August 6-10, 2018,** Panjab University Chandigarh-160012 (India).

(4) Short term course on " Funding Hacks For Researchers", **Sep, 2018 by** Elsevier..

(5) Short term course on " Successful research grant applications-getting it right" **2Oct, 2018 by Elsevier.**

(6) Short term course on " 10 reasons to get- and use-an ORCID iD by Elsevier.

(7) Short term course on Diversity in Peer Review", **3 Oct, 2018** by Elsevier.

(8) National workshop on "LaTex and Technical Writing" organized by Department of Basic and Applied Sciences, **23-25 November, 2018,** Punjabi University-Patiala.

(9) Workshop on "Sensors and IoT" **16-22 December**, 2018 in IIT ROPAR.

(10) Short term course on "Smart materials and nanotechnology" In Punjabi university, Patiala, **2-6 December, 2019,** (India).

(11)

EXTRA CURRICULUM: SANKOSA COORDINATOR (UNITED NATIONS), PUNJABI UNIVERSITY, PATIALA, INDIA

SESSION CHAIRPERSON: (1) Chemical and Environmental Sciences Innovations and Advances, Feb 15-16 Feb, 2018, Department of Chemistry, Punjabi University-Patiala.

(2) Recent trends in chemical and environmental sciences, 7-8 Feb,2019, Punjabi University-Patiala.

(3) Contemporary Ideas, Innovations & Initiatives in Chemical Sciences-2023(CI3CS-2023)" February 23-24, 2023, Punjabi university, Patiala.

LIST OF PUBLICATIONS:

1. **Anupreet Kaur**, Usha Gupta, Micellar Spectrophotometric Determination of Nickel, Cobalt, Copper Using Sodium-1-methyl-1-propylthioxanthate. *Chemical and Environmental Research*, 2007, 16, 195-202.
2. **Anupreet Kaur**, Usha Gupta, Chemically Modified Submicron Silica Particulate Extractants for Preconcentration of Mercury(II). *Bulletin of Korean Chemical Society*, 2008, 29, 1932-1936.
3. **Anupreet Kaur**, Usha Gupta, A Preconcentration Procedure Using 1-(-2-pyridylazo)-2-napthol Anchored to Silica Nanoparticles for the Analysis of Cadmium in Different Samples. *E-Journal of chemistry*, 2008, 5, 930-939.
4. **Anupreet Kaur**, Usha Gupta, Sorption and Preconcentration of Lead on Silica Nanoparticles Modified with Resacetophenone, *E-Journal of chemistry*, 2009, 6, 633-638.
5. **Anupreet Kaur**, Usha Gupta, Applications of 1-(2-pyridylazo)-2-naphthol SiO_2 nanoparticles for the preconcentration of trace Pb^{2+} from different water and food samples.*Chinese Journal of Chemistry.*, 2009, 27, 1833 -1838.
6. **Anupreet Kaur**, Usha Gupta, A Review on-Application of Nanoparticles for the Preconcentration of Environmental Pollutants. *Journal of Material Chemistry A*, 2009, 19, 44, 8279 - 8289.
7. **Anupreet Kaur**, Usha Gupta, Preconcentration of Nickel Using Chemically Modified Silica Nanoparticles, *Eurasian Journal of Analytical Chemistry*, 2009, 4, 175-183.
8. **Anupreet Kaur**, Usha Gupta, Preconcentration of Zinc and Manganese Using 1-(2-pyridylazo)-2-naphthol Anchored SiO_2 Nanoparticles, *Eurasian Journal of Analytical Chemistry*, 2009, 4(3), 234-244.
9. **Anupreet Kaur**, Usha Gupta, Solid Phase Extraction of Antimony Using Chemically Modified SiO_2-PAN Nanoparticles *Journal of AOAC International*, 2010, 93, 1302-1307.
10. **Anupreet Kaur**, Usha Gupta, Solid Phase Extraction of lead Using SiO_2-DHAQ Nanoparticles. *EJEAFChe*, 9 (4), 2010, 752-759.
11. **Anupreet Kaur**, Usha Gupta, Preconcentration of heavy metals using chemically modified submicron Nanoparticles. *Separation Science*, 2010, 2, 11-16.
12. **Anupreet Kaur**, Usha Gupta, Preconcentration and Determination of Zineb and Maneb using 1-(2-pyridylazo)-2-naphthol Anchored on Silica Nanoscavengers. *Eurasian Journal of Analytical Chemistry*, 2011, 6, 1-9.
13. **Anupreet Kaur**, Usha Gupta, Spectrophotometric determination of Ni(II), Co(II) and Cu(II) by using 7-(14-nitrophenylazo)-8- hydroxyquinoline-5-sulfonic acid in micellar

media. *EJEAFChe,* 2011, 10, 2356-2364.

14. **Anupreet Kaur**, Usha Gupta, Potential of modified silica nanoparticles with RATP as a new solid sorbent for the preconcentration of trace amounts of Co(II) metal ions, *Separation science*, 2011, 3, 1-7.
15. **Anupreet Kaur**, Usha Gupta, Preconcentration of Cd(II) different samples by chemically modified SiO_2-DHAQ nanoparticles, *J.Chil.Chem. Soc,* 2010, 56, 649-652.
16. **Anupreet Kaur**, Usha Gupta, Design synthesis and application of SiO_2-RATP nanoparticles for preconcentration and separation of trace copper ions: a green approach. *Advances in nanoparticles,* 2012, 1, 1-7.
17. **Anupreet Kaur,** Usha Gupta, Shivender Singh Saini, A.L.J. Rao, Spectrophotometric determination of Co(II) in various samples by Solid phase Extraction using Chemically Modified SiO_2-PAN Nanoparticles, *Journal of Applicable Chemistry,* 2012, 1(3), 381-391.
18. Shivender Singh Saini and **Anupreet Kaur,** Trends in Separation Science and preconcentration for mycotoxins: A review, *Separation Science,* 2012, 4, 13-17.
19. Shivender Singh Saini and **Anupreet Kaur,** Aflatoxin B1: Toxicity, characteristics and analysis: Mini review, *Global Advanced Research Journal of Chemistry and Material Science,* 2012, 14, 063-070.
20. Shivender Singh Saini and **Anupreet Kaur,** Molecular Imprinted Polymers for the detection of Food toxins: a Minireview, *Advances in nanoparticles*, 2013, 2, 60-65.
21. Narender Budhiraja, Ashwani Sharma, Sanjay Kumar, **Anupreet Kaur,** N.V. Unikrishnan, Study of stannous-cerium oxide nanocomposites as nanofilm, nanodot and nanorod, *Intern. Lett. Che. Phy and Astronomy*, 2013, 14, 69-79.
22. **Anupreet Kaur**, Shivender Singh Saini, Nanoadsorbents for the preconcentration of some toxic substances: a minireview, *Intern. Lett. Chem. Phy and Astronomy,* 2014, 2, 22-35.
23. **Anupreet Kaur**, Usha Gupta, Preparation of Silica-PAN Functionalized Nanoextractants for Extraction of Ferbam from Various Samples, *Separation Science and Technology*, 2015, 50, 661-669.
24. **Anupreet Kaur,** Applications of organo-silica nanocomposities for SPNE of Hg(II), *Applied Nanoscience,* 2016, 6,183–190.
25. **Anupreet Kaur,** High-Order mesoporous sensors for visual recognition of emerging pollutants. *An international Journal of Engineering Sciences,* 2016, 17, 349-352.
26. **Anupreet Kaur,** Deepak Saini, Analytical techniques for the preconcentraion and separation of mononitrophenols, *J. Indian.Chem. Soc.*, 2016, 93, 1-6.

27. **Anupreet Kaur,** Deepak Saini, Amritpal Kaur, A review on synthesis of silica nanocomposites with conducting polymers: Polyaniline, *An International Journal of Engineering Sciences,* 2016,18, 40-53.
28. **Anupreet Kaur,** Deepak Saini, Jaspreet Singh, A review on analysis and testing of conducting polymer and nanocomposites on the basis of their conducting properties, *An International Journal of Engineering Sciences,* 2016, 18, 100-107.
29. **Anupreet Kaur,** Deepak Saini, A review on electronic waste pollution, *An International Journal of Engineering Sciences,* 2016, vol 20, 17-19.
30. Shivdeep Sharda, Deepak Saini, **Anupreet Kaur** Synthesis of Fe_3O_4-SiO_2-Polyaniline Conducting NanoComposites, *An International Journal of Engineering Sciences,* 2017, vol 20, 36-40.
31. **Anupreet Kaur,** Deepak Saini, harpreet kaur, Synthesis and applications of oxalic acid doped silica-polyaniline nanocomposition, International organisation of scientific research community of researchers, vol14, 2019, 44-47.
32. **Anupreet Kaur,** Deepak Saini, Harpreet kaur, 2019, Synthesis and application of N-doped silica polyaniline nanocomposites. *IJEDR,* Vol 7, issue 4, 257-260.
33. Dharampal Deepak, **Anupreet kaur,** Gagandeep Singh Saimbi, Synthesis of ascorbic acid doped silica polyaniline Nanocomposite, , *IJEDR*, 2020, 8(3), 178-181.
34. SiO_2@Fe_3O_4-SB nano-hybrids as nanosorbent for preconcentration of cadmium ions from environmental water samples, Sarabjit kaur, Karamjeet kaur, **Anupreet Kaur,** Jatinder Singh Aulakh, *Journal of Environmental Chemical Engineering,* 2020, 8(2), 103448.
35. Gagandeep Kaur, **Anupreet Kaur,** Harpreet Kaur "Review nanomaterials/conducting polymer based nanocomposite for the development of biosensors and electrochemical sensors" *Polymer-Plastics Technology and Materials,* 2021, 60(5), 502–519.

SYMPOSIA/CONFERENCES

I. 19th National Annual Symposium and Professor Ram Chand Paul 2nd Symposium on Recent Trends in Chemistry, Panjab University, Chandigarh, 22-23 Dec, 2005.

II. National Workshop on "Recent Trends in Analytical Techniques" Deen Dayal Upadhyaya College, Delhi University, 14-15 Feb, 2007.

III. National Conference on Nanotechnology, Bhai Maha Singh College of Engineering, Mukstar, 23-24 Feb, 2007.

IV. Recent Advances in Chemical Environmental Sciences, Multani Mal Modi College,

Patiala, 16-17 Jan, 2009.

V. National Seminar on Recent trends in Chemistry, Department of Chemistry, Punjabi Univesity, Patiala, 21-22 Jan, 2009.

VI. National Symposium on Green Chemistry: Application in science and engineering, Thaper University, Patiala, 5-6 Feb, 2009.

VII. Recent Advances in Chemical Environmental Sciences, Multani Mal Modi College, Patiala, 22- 23 Jan, 2010.

VIII. National Seminar on Recent trends in Chemistry, Department of Chemistry, Punjabi University, Patiala, 15-16 Feb, 2010.

IX. Professor Ran Chand Paul international conference on emerging trends in chemistry, Panjab University, Chandigarh, 11-12 Feb, 2011.

X. 14^{th} Punjab Science Congress, 7-9 Feb, 2011, SLIET Longowal, Punjab,

XI. Recent Advances in Chemical Environmental Sciences, Multani Mal Modi College, Patiala, 28 Feb-1 Mar, 2010, Patiala.

XII. National Seminar on Recent trends in Chemistry, Department of Chemistry, Punjabi University, Patiala, 15-16 Feb, 2011.

XIII. 6^{th} National Conference on Thermodynamics of Chemical and Biological Systems, MDU, Rhotak, Nov 2-4, 2011.

XIV. International Conference on Innovations in Chemistry for Sustainable Development (ICSD- 2011). Department of Chemistry, Dec 1-3, 2011, Panjab University, Chandigarh.

XV. Chemistry: An Inter disciplinary Sciences, Feb 15-16, 2012, Punjabi University, Patiala.

XVI. Recent Advances in Chemical and Environmental Sciences, Multani Mal Modi College, Patiala, March 3, 2012.

XVII. Chemical Constellation Cheminar-2012, September 10-12, Department of Chemistry, Dr B.R. Ambedkar National Institute of Technology, Jalandhar.

XVIII. International conference on Biotechnology: Emerging Trends (ICB-2012), Chaudhary Devi Lal University, Sirsa, September 18-20, 2012.

XIX. National Conference on Global Challenges New Frontiers in Chemical Sciences (GC: NFCS-2012) 22^{nd} -23^{rd} September, 2012. Kurukshetra University.

XX. National Conference on" Emerging Horizons in Science and Technology" Jan, 17-18, 2014, Sri Guru Granth sahib World University, Fatehgarh Sahib.

XXI. New Frontiers in Chemical Sciences, Nov 15, 2014, G.S.S.D.G.S. Khalsa college, Patiala.

XXII. Excessive use of toxic chemicals its impact on Human Health and environment, Jan, 29-

2015, A.S.College Khanna.

XXIII. Synergistic Aspects of Chemical and Other Sciences, Feb, 19-20, 2015, Department of Chemistry, Punjabi University, Patiala.

XXIV. International Conference on Innovative Trends in Electronics Engineering, Jan,29, 2016, Department of Electronics and Communication Engineering, Punjabi university, Patiala.

XXV. Recent Advances in Emerging Technologies (ICRAET-2016) Feb, 23-24, 2016, Sri Guru Granth Sahib World University, Fatehgarh Sahib.

XXVI. Fullbright-Nehru Fellowship Opportunities for Research and Skill Development Centre, April, 5, 2016, Department of Civil Engineering, Punjabi University-Patiala.

XXVII. 2nd International Conference on Innovative Trends in Electronics Engineering, Nov,24, 2016, Department of Electronics and Communication Engineering, Punjabi university, Patiala.

XXVIII. Green Chemistry/Engineering and Technologies for Sustainable Development (GCET-2017), 20-22 April, Jointly organized by Department of Chemistry, Chandigarh and Florida Polytechnic University, Florida, Lakeland, (USA).

XXIX. Chemical and Environmental Sciences Innovations and Advances, Feb 15-16 Feb, 2018, Department of Chemistry, Punjabi University-Patiala.

XXX. Recent Trends in Chemical and Environmental Sciences, 7-8 Feb,2019, Punjabi University-Patiala.

XXXI. Research in Chemical Sciences: Current Scenario(RCSCS-2019), March 29, Sri Guru Granth Sahib World University-Fatehgarh Sahib.

XXXII. Second Virtual International Conference on 2nd IC^2S^2TD,Chemical Sciences in Sustainable Technology and Development, 2021, Sadar Vallabhbhai National Institute of Technology, Surat, Gujarat, India.

XXXIII. Contemporary Ideas, Innovations & Initiatives in Chemical Sciences-2023(CI3CS-2023)" February 23-24, 2023, Punjabi university, Patiala.