


FACULTY ACADEMIC PROFILE

NAME	Dr. Anju Saini		
DESIGNATION	Associate Professor		
DEPARTMENT/SECTION/SUBJECT	YDoS/ Chemistry		
OFFICIAL ADDRESS	Yadavindra Department of Sciences, PUGKC, Talwandi Sabo (BTI-Pb), Punjabi University Patiala		
CONTACT NO. (s)	9815212340		
E-MAIL (S)	anjusaini04@yahoo.co.in		
ACADEMIC QUALIFICATIONS			
DEGREE	DEGREE NAME	UNIVERSITY	
PH.D.	Ph.D	Panjab University, Chandigarh	
M.Phil	M.Phil (with distinction)	Panjab University, Chandigarh	
POSTGRADUATION	M.Sc	Punjabi University, Patiala	
GRADUATION	B.Sc (Med)	Panjab University, Chandigarh	
ANY OTHER	<i>NET qualified conducted by UGC/CSIR</i>		
THRUST AREAS/RESEARCH INTERESTS	1. Coordination chemistry 2. Supramolecular chemistry 3. Binding Studies 4. Nanochemistry		
SUBJECTS TAUGHT	1. Inorganic Chemistry 2. Physical Chemistry 3. Applied Chemistry		
TOTAL EXPERIENCE: 26	TEACHING EXPERIENCE: 27	INDUSTRY EXPERIENCE: nil	
EMPLOYMENT HISTORY	1. Associate Professor, Punjabi University Guru Kashi Campus, Damdama Sahib, (16. 07. 2018 onwards) 2. Assistant Professor, Punjabi University Guru Kashi Campus, Damdama Sahib, (15.07.2005-15.07.2018). 3. Lecturer in Chemistry, MIMT College, Malout (9.05.2005-15.07.2005) 4.Senior Lecturer Chemistry, G.T.B.K.I.E.T, Chhapiawali, Malout, (22.03.2002-7.05.2005) 5. Lecturer Chemistry, G.T.B.K.I.E.T, Chhapiawali, Malout, (2.06.1997-21.03.2002) 6. Lecturer in Chemistry, DAV college, Malout (27.07.1993-31.03.1994)		
MEMBERSHIP OF PUNJABI UNIVERSITY ACADEMIC BODIES	1. Member, Board of Studies, Basic and Applied Sciences, Punjabi University Patiala (2016-2018). 2. Member, Faculty of Physical Sciences, Punjabi University Patiala (2019-2021).		

	3. Member Academic council of Punjabi University Patiala (2022-2023)
ADMINISTRATIVE/ACADEMIC DUTIES PERFORMED	1. Head ,YDOS from 02.09.2021 2. Examination Incharge from 2.08.2017-2.09.21 3. Incharge Applied Sciences Department, YCoE , Talwandi Sabo from 1.01.2013- 1.01.2015. 4. Administrative officer from 1.012015 - 1.08. 2017 5. ACD member from 1.05.2012-31.4.2013 6. Formerly Dean Academics in GTBKIET Chappianwali , Malout (2002-2005). 7. Formerly Head of Applied Sciences Department in GTBKIET Chappianwali , Malout (1999-2002).

FACUTLY RESEARCH PROFILE

GOOGLE SCHOLAR ID	Anju Saini,			
IMPACT FACTOR	$2 \times 2.05 + 14 \times 3.196 + 3 \times 3.05 + 3 \times 2.545 + 1.07 + 2 \times 2.49 + 0.837 + 0.265 + 2 \times 3.59 + .852 + 1.75 + 3.407 + 1.869 + 1.07 + 2.59 = 82.83$			
	CITATION INDEX	293	I10-INDEX	10
	H-INDEX	10	SJR	14.827
	SNIP			
NO. OF CANDIDATES (COMPLETED PH.D.)	XX	NO. OF CANDIDATES (PH.D. ONGOING)	01	
PG THESIS GUIDED	XX	PG THESIS ONGOING	XX	
RESEARCH PROJECTS	COMPLETED	XX		
	ONGOING	XX		
	SUBMITTED	XX		
NO. OF PAPERS	INTERNATIONAL JOURNALS	34		
	NATIONAL JOURNALS	-		
	INTERNATIONAL CONFERENCES	12		
	NATIONAL CONFERENCES	33		
NO. OF FOREIGN COUNTRIES VISITED FOR ACADEMIC PURPOSES	01			
NO. CONFERENCES ATTENDED	INTERNATIONAL	13		
	NATIONAL	36		
NO. BOOKS PUBLISHED	AS SINGLE AUTHOR	00		
	AS JOINT AUTHOR	02		

NO. OF EDITED BOOKS	XX	NO. OF BOOK CHAPTERS	XX
NO. OF INTERNATIONAL CONFERENCES/ WORKSHOPS/ SEMINARS/STCs/FDPs ORGANIZED			
MEMBERSHIPS OF PROFESSIONAL BODIES	INTERNATIONAL	1.Nil	
	NATIONAL	1. Life member of Himachal Science Congress	

PHD SUPERVISION (COMPLETED) DETAILS

SR. NO.	NAME	REGISTRAION NO.	UNIVERSITY
1.	xx	xx	xx
2.			

PUBLICATION IN SCI AND SCUPUS INDEX JOURNALS

S.No.	Author	Title	Journal	Vol. No.	Page no.	Year
1.	D. G. Niyogi, S. Singh, A. Saini , R.D. Verma.	Reactions of fluorinated acid anhydrides with metal alkoxides	J. Fluor. Chem.	66	153	1994
2	N. Seedhar, A. Saini ,	Spectral study of Dye-Surfactant complexation	J. Surf Sci. Technol	13	212	1997
3	N. Seedhar, A. Saini,	Spectrophotometric studies on the interaction of bovine serum albumin with triphenylmethane dyes.	Indian J Pharm Sci.	60	297	1998
4.	R.P. Sharma, A. Singh, A. Saini , P. Venugopalan, A. Molinari, V. Ferretti.	Controlling the ligating behaviour of biologically important p-hydroxybenzoate towards copper(II) by the use of nitrogen bases: Synthesis, characterization and single crystal X-ray structure determination of [trans-Cu(en) ₂ (H ₂ O) ₂](L ₁) ₂ .2H ₂ O and [cis-Cu(L ₁) ₂ (L ₂) ₂] where en = ethylene-diamine, L ₁ = p-hydroxy-benzoate, L ₂ = 3-picoline.	J. Mol. Struct.	923	78	2009
5.	R.P. Sharma, A. Saini , S. Singh, P. Venugopalan, W.T.A. Harrison.	Segregated aromatic π - π stacking interactions involving fluorinated and non-fluorinated benzene rings: Cu(py) ₂ (pfb) ₂ and Cu(py) ₂ (pfb) ₂	J. Fluor. Chem.	131	456	2010

		(H ₂ O) (py = pyridine and pfb = pentafluorobenzoate).				
6.	R.P. Sharma, A. <i>Saini</i> , S Singh, A. Singh, P. Venugopalan, V. Ferretti	Second sphere coordination complexes: Synthesis, characterization, single crystal structure and packing analyses of [trans-Cu(en) ₂ (H ₂ O) ₂](L ₁ /L ₂) ₂ where L ₁ = <i>p</i> -toluenesulphonate L ₂ = 5-bromo-2-methoxybenzenesulphonate.	J. Mol. Struct.	969	155	2010
7.	R.P. Sharma, A. <i>Saini</i> , S. Singh, P. Venugoplalan, V. Ferretti,	Two new second sphere coordination complexes of copper(II): Syntheses, characterization, single crystal structure and packing analyses of [trans-Cu(en) ₂ (H ₂ O) ₂](L ₁ /L ₂) ₂ where L ₁ = 3-methoxybenzoate, L ₂ = 3,4,5 trimethoxybenzoate,	J. Mol. Struct.	979	128	2010
8.	RP Sharma, R Sharma, A Singh, A <i>Saini</i> , A.I. Gubanov, A.I. Smolentsev, P.Venugopalan,.	Isolation of a new bromocadmate (II) anion stabilized by second sphere coordination: [Co(NH ₃) ₆] ₂ [Cd ₃ Br ₁₀ (H ₂ O) ₂] Br ₂ · 2H ₂ O	J. Mol. Struct.	980	261	2010
9.	R.P. Sharma, A Singh, A <i>Saini</i> , P Venugopalan, V Ferretti.	A rational synthesis of new anion [HgBr ₄ Cl] ³⁻ . Synthesis, characterization and single crystal X-ray structure determination of [Co(NH ₃) ₆][HgBr ₄ Cl]	Inorg. Chem. Commun.	14	1	2011
10.	R.P. Sharma, A. <i>Saini</i> , S Singh, A. Singh, P. Venugopalan, P. Starynowicz, J. Jezierska.	Spectra–structure relationship: Syntheses, characterization, single crystal X-ray structural studies and packing analyses of two novel copper(II) complexes: [Cu(pyridine) ₂ (H ₂ O) ₄](<i>p</i> -toluenesulfonate) ₂ and [Cu(β-picoline) ₂ (H ₂ O) ₄](<i>p</i> -toluenesulfonate) ₂ .	J. Mol. Struct.	994	21	2011
11.	R.P. Sharma, A. <i>Saini</i> , S Singh, A. Singh, P. Venugopalan, P. Starynowicz, J. Jezierska.	Synthesis, characterization, single crystal X-ray structural studies and packing analyses of two novel copper(II) complexes: [Cu(2-Cl-5-FC ₇ H ₃ O ₂) ₂ (β-picoline) ₂ (H ₂ O) ₂] and [Cu(en) ₂ (H ₂ O) ₂](2-Cl-5-FC ₇ H ₃ O ₂) ₂ .	J. Mol. Struct.	998	9	2011
12.	R.P. Sharma, A. <i>Saini</i> , P. Venugopalan, V. Ferretti.	Concomitant formation of differently coordinated copper(II) complexes in the same reaction: Structural studies of [trans-Cu(γ-picoline) ₂ (H ₂ O) ₄](<i>p</i> -toluenesulfonate) ₂ · 2 H ₂ O and [trans-Cu(γ-picoline) ₄](<i>p</i> -toluenesulfonate) ₂ · 2H ₂ O.	J. Mol. Struct.	1015	166	2012
13.	R.P. Sharma, A. <i>Saini</i> , P.	Rare monomeric–dimeric copper(II) cinnamate complexes in one single	Inorg. Chem.	20	209	2012

	Venugopalan, J. Jeziarska, V. Ferretti.	crystal: Syntheses, characterization, structure determination and DFT studies of two copper(II) complexes.	Commun.			
14.	R.P. Sharma, A. <i>Saini</i> , P. Venugopalan, S. Khullar, S. Mandal.	Synthesis, characterization, crystal structure and BSA binding studies of two novel copper(II) complexes: [trans-Cu(en) ₂ (H ₂ O) ₂](p-methoxy cinnamate) ₂ and [trans-Cu(en) ₂ (H ₂ O) ₂](p-nitrocinnamate) ₂ .2H ₂ O.	Polyhedron	56	34	2013
15.	R.P. Sharma, A. <i>Saini</i> , P. Venugopalan, V. Ferretti, F. Spizzo, C. Angeli, C. J. Calzado.	Magnetic behaviour vs. structural changes in an isomeric series of binuclear copper(II) complexes: an experimental and theoretical study.	New J. Chem.	38	574	2014
16.	R.P. Sharma, A. <i>Saini</i> , D. Monga, P. Venugopalan, J. Jeziarska, A. Ozarowski V. Ferretti,	Influence of nitrogen donor ligands on the coordination modes of copper(II) 2-nitrobenzoate complexes: structures, DFT calculations and magnetic properties.	New J. Chem.	38	437	2014
17.	R.P. Sharma, A. <i>Saini</i> , S. Kumar, P. Venugopalan, V. Ferretti	Synthesis, characterization, single crystal structure and DFT calculations of [Cu(temed)(H ₂ O) ₄](1,5-naphthalenedisulphonate).2H ₂ O,	J. Mol. Struct.	1067	210	2014
18.	R.P. Sharma, A. <i>Saini</i> , S. Kumar, P. Venugopalan, V. Ferretti.	Isolation of two rare aqua-bridged zigzag copper(II) coordination polymers: Syntheses, characterization and X-ray structures of [Cu(2-bromobenzoate) ₂ (β/γ-picoline) ₂ (μ-H ₂ O)] _n	J. Mol. Struct.	1060	256	2014
19.	R.P. Sharma, S. Kumar, A. <i>Saini</i> , P. Venugopalan, A. Rodríguez-Diéguez, J.M. Salas.	Cation–anion interactions via hydrogen bonding; synthesis, characterization and single crystal X-ray structure of [Cu(phen) ₃](1,3-benzenedisulphonate).7H ₂ O.	J. Mol. Struct.	1071	11	2014
20.	S. Kumar, R.P. Sharma, A. <i>Saini</i> , P. Venugopalan, V. Ferretti	Design and construction of two rare aqua bridged copper (II) coordination polymers through mixed ligand strategy: Synthesis, characterization and single crystal X-ray structure determination of [Cu(2-iodobenzoate) ₂ (β/γ-picoline) ₂ (μ-H ₂ O)] _n .	J. Mol. Struct.	1083	398	2015
21.	S. Kumar, R.P. Sharma, A. <i>Saini</i> , P. Venugopalan, P. Starynowicz.	Synthesis, characterization, single crystal X-ray structure determination and packing analysis of thallium(I) anthracene-9-	J. Mol. Struct.	1079	291	2015

		carboxylate, $[\text{Ti}_4(\text{H}_2\text{O})_2(\text{anthracene-9-carboxylate})_4]$.				
22.	<i>A. Saini</i> , R.P. Sharma, S. Kumar, P. Venugoplan, P. Starynowicz, J. . Jezierska,	Role of non-covalent interactions in three copper(II) 5-chloro-2-nitrobenzoate complexes with N-donor ligands: Syntheses, characterization and packing analyses of $[\text{trans-Cu}(\beta\text{-pic})_2(\text{H}_2\text{O})_2(5\text{-chloro-2-nitrobenzoate})_2]$, $[\text{trans-Cu}(\gamma\text{-pic})_2(5\text{-chloro-2-nitrobenzoate})_2]$ and $[\text{trans-Cu}(\text{en})_2(\text{H}_2\text{O})_2](5\text{-chloro-2-nitrobenzoate})_2 \cdot 2\text{H}_2\text{O}$	Inorg. Chim. Acta.	436	169	2015
23.	<i>A. Saini</i> , R.P. Sharma, S. Kumar, P. Venugoplalan, A. I. Gubanov, A. I. Smolentsev,	Two new isomeric copper(II) complexes: Syntheses, Spectroscopic characterization, Single crystal X-ray structure determination and packing analyses of $[\text{Cu}(\text{L}_1/\text{L}_2)_2(\text{TEMED})]$, where $\text{L}_1 = 4\text{-chloro-2-nitrobenzoate}$, $\text{L}_2 = 5\text{-chloro-2-nitrobenzoate}$ and $\text{TEMED} = \text{N, N, N', N'-tetramethylethylenediamine}$.	Polyhedron	100	155	2015
24.	R.P. Sharma, <i>A. Saini</i> , S. Kumar, P. Venugopalan, G. Yanan, J. Yu, V. Ferretti.	2-Chloro-4-fluorobenzoate vs. 2,4-dichloro-benzoate: A comparative study of non-covalent interactions in copper(II) 2-chloro-4-fluorobenzoate and copper(II) 2,4-dichlorobenzoate complexes with nitrogen-donor ligands.	Inorg. Chim Acta.	442	37	2016
25.	R.P. Sharma, <i>A. Saini</i> , S. Kumar, J. Kumar, R. S. Kumar, P. Venugopalan, T Aree.	Diaquabis(ethylenediamine)copper(I) vs. monoquabis(ethylenediamine)copper(II): Synthesis, characterization, single crystal X-ray structure determination, theoretical calculations and antimicrobial activities of $[\text{Cu}(\text{en})_2(\text{H}_2\text{O})_2](2\text{-phenoxy-benzoate})_2 \cdot \text{H}_2\text{O}$ and $[\text{Cu}(\text{en})_2(\text{H}_2\text{O})](\text{diphenylacetate})_2 \cdot 3\text{H}_2\text{O}$.	Polyhedron	123	430	2017
26.	R.P. Sharma, <i>A. Saini</i> , S. Kumar, J. Kumar, R. S. Kumar, P. Venugopalan.	Non-covalent interactions in 2-methylimidazolium copper(II) complex $(\text{MeImH})_2[\text{Cu}(\text{pfbz})_4]$: Synthesis, characterization, single crystal X-ray structure and packing analysis.	J. Mol Struct.	1128	135	2017
27.	R.P. Sharma, <i>A. Saini</i> , J. Kumar, S. Kumar, P. Venugopalan, V. Ferretti.	Coordination complexes of copper(II) with herbicide-trichlorophenoxyacetate: Syntheses, characterization, single crystal X-ray structure and packing analyses of monomeric $[\text{Cu}(\gamma\text{-pic})_3(2,4,5-$	Inorg. Chim Acta,	457	59	2017

		trichlorophenoxy acetate) ₂ ·H ₂ O, [trans-Cu(en) ₂ (2,4,5-trichlorophenoxyacetate) ₂ ·2H ₂ O and dimeric [Cu ₂ (H ₂ tea) ₂ (2,4,5-trichlorophenoxyacetate) ₂ ·2(H ₂ O),				
28.	A. Saini , P. Gupta, P. Bansal, R.P. Sharma, B. Krishan, P. Kaur, V. Ferretti	Syntheses, Characterization, X-ray Structural Determination, and Packing Analyses of Ternary Copper(II) Complexes: [Cu(2-phenoxyacetate/4-chlorobenzoate) ₂ (temed)]	J. struct chem.	62	9	2021
29.	A. Saini , R. P. Sharma, P. Kaur, P. Bansal, B. Krishan, P. Kaur, V. Ferretti, P. Kandwal	Synthesis, characterization, X-ray structural analysis, DFT and BSA binding study of a Zn(II) complex, [Zn(II)Cl ₂ (nia) ₂].2nia	J. Coord. Chem	74	2741	2021
30	P. Bansal, A Saini	Solar Light Induced Degradation of Triarylmethane Dye using Semiconductor Mediated Photocatalysis	Bull. Env. Pharmacol. Life Sci., Vol 10 [10] September 2021 : 198-203	19	198	2021
31	A. Saini , P. Bansal.	Quenching Studies an Important Toolkit for Exploring Binding Propensity of Metal Complexes with SA and DNA.	J. Pharm. Chem	56	2741	2022
32	A Kaur, B Bajaj, A Kaushik, A. Saini , D Sud	<u>A review on template assisted synthesis of multi-functional metal oxide nanostructures: Status and prospects</u>	Mater Sci. Eng B	286	116005	2022
33	J Kumar, P Kaur, D Sud, A Saini , P Bansal	<u>Persistence, sorption, and forced degradation of imidacloprid in environmental matrix</u>	Mater. Today: Proc.	78	849	2022
34	C Chauhan, R Kumar, A. Saini , R Kumar, J Kumar, S Kumar, T Aree	Rare coordination behavior of triethanolamine ligand in [Cu(H ₃ tea) ₂](3,4-dimethoxy cinnamate) ₂ ·2H ₂ O: Synthesis, characterization, single crystal X-ray structure determination, Hirshfeld calculation and molecular docking studies	J. Mol Struct.	1294	136416	2023

BOOKS PUBLISHED:

S.NO.	AUTHOR (S)	TITLE	PUBLISHER	ISBN
1	P.N Kapil, Dr. Anju Saini	Physical Chemistry, B.Sc I st Sem I st	Dinesh Publishers	978-93-89255-55-3
2	Dr Rajeev Sharma, Dr Anju Saini, Dr Gaganpreet Kaur	Practical Chemistry B.Sc III rd Sem V th	R.D Publishers	978-81-95254-58-3

FACULTY DEVELOPMENT PROGRAMMES ATTENDED:

S.NO.	DATES	NAME OF THE FDP	ORGANIZING INSTITUE
1	Sept 16 -20 th , 2002 (One Week)	Curriculum implementation & evaluation for engineering college	Technical Training Institue, Chandigarh.
2	June26-july 2 nd , 2004 (One Week)	Effective Teacher	Quality improvement programme centre. IIT, Roorkee.
3.	March 1-28 th , 2007 (Four Weeks).	Orientation Course	Academic Staff College, Panjab University Chandigarh.
4.	Nov 23-Dec 13, 2012 (Three Weeks)	Refresher Course	Department of Bio-chemistry Academic Staff College, Panjab University, Chandigarh.
5.	July 15-Aug 3 rd , 2013 (Three Weeks).	Refresher Course	Department of Chemistry Academic Staff College, Himachal Pradesh University, Shimla.
6.	Jan 28 – Feb 11 th , 2014. (Two Weeks)	Faculty Development Program	North India Technical Consultancy Organization Ltd. (NITCON), Sponsored by DST, Govt. of India.
7.	June 6-11 th , 2016. (One Week)	International Summer Term Course- 2016 on “Nano Technology: Synthesis, Characterization, Fabrication and Applications”	Department of Chemistry, Dr. B.R. National Institute of Technology (NIT), Jalandhar in association with MHRD under Global Initiative of Academic Networks (GIAN).
8.	Nov 24 -30 th , 2017.(One Week)	Research Methodology	Conducted by UGC-Human Resource Development Centre, Punjabi university, Patiala.
9.	July 01-05 th , 2019. (One Week)	STTP on "Material Characterization & Analytical Techniques for	Department of Physics, Chemistry and Mechanical Engineering, SLIET

		Research Applications (MCATRA-2019)"	Longowal and NIT Utrakhand, held at SLIET Longowal.
10	May 25-31 th , 2020. (One Week)	FDP on "Recent Trends in Material Science and Engineering	Department of Physics, School of Basic Science & Research, Sharda University, Greater Noida
11	June 26-30 th , 2020. (One Week)	STC on "Analytical Techniques in the realm of Molecules & Materials (ATRMM-2020)	Department of Chemistry, SLIET Longowal.
12	July 26-31 th , 2021 (One Week)	STC on Analytical Techniques in the Realm of Molecules & Materials (ATRMM-21)	Department of Chemistry, SLIET Longowal.