PROFORMA FOR BIO-DATA

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1.	Name and full correspondence address:	Dr. Rahisuddin Associate Professor Molecular and Biophysical Research Laboratory (MBRL) Department of Chemistry Jamia Millia Islamia Mohammad Ali Jauhar Marg, Jamia Nagar, New Delhi 110025
2.	Email(s) and contact number(s):	rahisuddin@jmi.ac.in
		9871460074
	• Google Scholar link: https://scholar	.google.com/citations?user=6GDFig0AAAAJ&hl=en
	• Researchgate Link: https://www.res	searchgate.net/profile/Rahisuddin-2
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3.	Institution	:	Jamia Millia Islamia, New Delhi-110 025
4.	Date of Birth	:	10.03.1976
5.	Gender (M/F/T)	:	Male
6.	Category Gen/SC/ST/OBC	:	General
7.	Whether differently abled (Ye	es/No):	No

Academic Qualification (Undergraduate Onwards) 8.

S. No.	Degree	Year	Subject	University/Institution	% of Marks
1.	B. Sc.	1997	Chemistry, Zoology and Botany	Ch. Charan Singh University, Meerut	57.7
2.	M.Sc.	1999	Inorganic Chemistry	Ch. Charan Singh University, Meerut	61.0
3.	Ph.D.	2004	Inorganic Chemistry	Jamia Millia Islamia, New Delhi	-

9. Ph.D. thesis title, Guide's Name, Institute/Organization/University, Year of Award.

Ph.D. thesis title: "Studies on the Complexes of Transition Metal Ions with Macrocyclic Ligands containing Nitrogen, Oxygen and Sulphur"

Guide's Name:	Prof. M. Mazharul Haq (Retired)
Institute/Organization/University:	Jamia Millia Islamia, New Delhi
Year of Award:	2004

S. No.	Positions held	Name of the Institute	From	То
1	Guest Teacher	Department of Chemistry, Jamia Millia Islamia, New Delhi 110025	16 July, 2004	13 Oct., 2009
2	Principal Investigator Young Scientist DST Fast Track Scheme	Department of Chemistry, Jamia Millia Islamia, New Delhi 110025	14 Oct., 2009	23 Nov., 2009
3	Assistant Professor	Department of Chemistry, Jamia Millia Islamia, New Delhi 110025	24 Nov., 2009	23 Nov., 2021
4	Associate Professor	Department of Chemistry, Jamia Millia Islamia, New Delhi 110025	24 Nov., 2021	Till date

10. Work experience (in chronological order).

11. Professional Recognition/Award/Prize/Certificate, Fellowship received by the applicant.

S.No.	Name of Award	Awarding Agency	Year
1	Young Scientist DST Fast Track Scheme	Department of Science & Technology (DST)	2009
2	Invited Lecture Award	RSCS, Bhopal	2015

Fellows of Scientific Societies:

American Chemical Society (Member No. 31082548)

12. Major Research Projects.

S. No.	Title of Research Project (with specific period)	Funding Agency	Period	Grant/Amount (Rs. Lakhs)	Role as PI/Co- PI	Status Ongoing/ Completed
1.	Synthesis, Characterization and Cytotoxic Studies of Transition Metal Complexes of Thalidomide and its derivatives	Department of Science & Technology (DST), New Delhi	3 Years (2009- 2012)	14.67	PI	Completed
2.	Synthesis, Characterization and Biological Evaluations on the Metal Complexes of Novel <i>N</i> -Substituted Phthalimide Ligands	University Grant Commission (UGC), New Delhi	3 Years (2012- 2015)	9.858	PI	Completed
3.	Single/ Binary Metal Nanoparticles Loaded Nano- Carriers Using Medicinal Plants Extract And their Application in Tissue Culture medium as Media Additive For Optimizing Laboratory Production of Bovine Embroys	Indo-Egypt Joint Project* Department of Science & Technology (DST), New Delhi DST/INT/Egypt/ P-05/2019	2 Years (2020- 2023)	13,50,000 + Egyptian Dimes 4,50,000	Co-PI	Completed
4.	Developing DdpMPyPEPhU as a multitargeted drug for Breast Cancer using AI-guided enumeration-based optimisation, synthesis and preclinical evaluation in PDX model	Indian Council of Medical Research (ICMR), New Delhi	3 Years (2024- 2027)	93.95112	Co-PI	Ongoing

***International Official Visit to Cairo, Egypt:** Visited to Beni-Suef University, Cairo, Egypt to carry out experimental research work during 21.11.2022 to 05.12.2022.

Course Coordinator:

In-Situ Design and Catalytic Dynamics of Nanomaterials for Water and Air Quality Monitoring and Mitigation under Global Initiative on Academic Network (GIAN) Programme, Ministry of Education, Govt. of India (08/11/2024) Sanctioned amount Rs. 6,64,000/-

13. Key Publications (Year wise list of papers published in SCI Journals in descending
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S.No.	Author(s)	Title	Name of Journal	Volume	Page	Year
1	M Rana, I Ansari, S Khan, R Mehandi, Rahisuddin *	Design and synthesis of N- formyl/carbothioamide based pyrazoline analogs using Pd(PPh ₃) ₄ catalyst: Cytotoxicity, apoptosis, and molecular docking studies	Journal of Organometallic Chemistry (IF = 2.1)	1022	123369	2024
2	Nouman, M Rana, S Ahmedi, M Dhama, N Manzoor, Rahisuddin *	Transition metal complexes of benzimidazole-based ligands: Synthesis, characterization, biological, and catecholase activities	Inorganica Chimica Acta (IF = 2.7)	574	122392	2024
3	A Ali, Z Ahmed, AB Ganaie, K Mahiya, Rahisuddin, K Iftikhar	A bright red low symmetry nine- coordinate Eu ³⁺ complex: Synthesis, crystal structure and photophysical studies	Polyhedron	261	117154	2024
4	R Sultana, A Ali, M Rana, I Ahmad, M Kamthan, HTA Almuqdadi, Nouman, R Mehandi, M Abid, Zeinhom M. El- Bahy, Rahisuddin *	Synthesis of oxadiazole derivatives: Anti-bacterial, DNA binding and in silico molecular modelling approaches	Journal of Molecular Structure (IF = 3.841)	1318	139350	2024
5	Nouman, M Rana, S Ahmedi, R Mehandi, S Ahmad, T Fatima, K Raza, N Manzoor, Rahisuddin*	2-Hydrazinobenzothiazole based derivatives: Synthesis, characterization, antifungal, DNA binding and molecular modelling approaches	Journal of Molecular Structure (IF = 3.841)	1308	138051	2024
6	R Mehandi, C Twala, A Ali, S Ahmedi, M Rana, R Sultana, N Manzoor, M Abid, S Javed, N Nishat, Rahisuddin *	Pd-catalyzed synthesis, characterization, and biological evaluations of pyrazole derivatives: DFT, molecular modelling and antioxidant studies	Journal of Organometallic Chemistry	1005	122994	2024
7	M Rana, I Ansari, C Twala, S Khan, A Mandal , Rahisuddin *	Novel dihydrobenzofuran derivatives: Design, synthesis, cytotoxic activity, apoptosis, molecular modelling and DNA binding studies	Journal of Biomolecular Structure and Dynamics (IF = 5.235)	42	12742– 12760	2023

8	A. Ali, Z. Ahmed, K. Iftikhar, Rahisuddin *	Heteroleptic samarium complexes with high quantum yields for temperature sensing applications	Dalton Transactions (IF = 4.0)	53	1105-1120	2023
9	A. Ali, Z. Ahmed, Rahisuddin , K. Iftikhar	Pure red-light emitting europium based complexes as efficient UV light converters: synthesis, crystal structure and photoluminescence properties	Dalton Transactions (IF = 4.0)	52	14075- 14087	2023
10	M. Rana, H. Hungyo, P. Parashar, S. Ahmad, R. Mehandi, V. Tandon, Khalid Raza, M. A. Assiri, T. E. Ali, Z. M. El-Bahy, Rahisuddin *	Design, synthesis, X-ray crystal structures, anticancer, DNA binding, and molecular modeling studies of pyrazole–pyrazoline hybrid derivatives	RSC Advances (IF = 3.9)	23	26766	2023
11	M. Rana, S. Ahmedi, A. Fatima, S. Ahmad, Nouman, N. Siddiqui, K. Raza, N. Manzoor, S. Javed, Rahisuddin *	Synthesis, single crystal, TD-DFT, molecular dynamics simulation and DNA binding studies of carbothioamide analog	Journal of Molecular Structure (IF = 3.841)	1287	135701	2023
12	R. Sultana, A. Ali, C. Twala, R. Mehandi, M. Rana, D. Yameen, M. Abid, Rahisuddin *	Synthesis, spectral characterization of pyrazole derived Schiff base analogs: Molecular dynamic simulation, antibacterial and DNA binding studies	Journal of Biomolecular Structure and Dynamics (IF = 5.235)	41	13724- 13751	2023
13	S Jain, M Rana, R Sultana, R Mehandi, Rahisuddin *	Schiff Base Metal Complexes as Antimicrobial and Anticancer Agents	Polycyclic Aromatic Compounds (IF = 2.195)	43	6351- 6406	2023
14	M. Rana, A Fatima, N Siddiqui, S Ahmedi, SH Dar, N Manzoor, S Javed, Rahisuddin *	Carbothioamide Based Pyrazoline Derivative: Synthesis, Single Crystal Structure, DFT/TD-DFT, Hirshfeld Surface Analysis and Biological Studies	Polycyclic Aromatic Compounds (IF = 2.195)	43	6181- 6201	2023
15	Nouman, Manish Rana, Saiema Ahmedi, Rizwan Arif, Nikhat Manzoor, Rahisuddin *	4-Bromo-1,8-naphthalimide derivatives as antifungal agents: Synthesis, characterization, DNA binding, molecular docking, antioxidant and ADMET studies	Polycyclic Aromatic Compounds (IF = 2.195)	44	748-772	2024
16	R Mehandi, R Sultana, S Ahmedi, M Rana, N Manzoor, S Javed, Rahisuddin *, N Nishat	Oxadiazole Schiff Base as Fe ³⁺ ion Chemosensor: "Turn-off" fluorescent, biological and computational studies	Journal of Fluorescence (IF = 2.525)	33	751-772	2023
17	SH Dar, N Hasan, M Rana, A Fatima, SNS Andrabi, S Ahmedi, N Manzoor, S Javed, Rahisuddin *	Synthesis and spectral studies of Ni(II) complexes involving functionalized dithiocarbamates and triphenylphosphine: X-ray crystal structure, thermal stability, Hirshfeld surface analysis, DFT and biological	Inorganica Chimica Acta (IF = 2.545)	545	121271	2022

18	M Rana, MI Faizan, SH Dar, T Ahmad, Rahisuddin *	Design and Synthesis of Carbothioamide/Carboxamide-Based Pyrazoline Analogs as Potential Anticancer Agents: Apoptosis,	ACS Omega (IF = 4.132)	7 (26)	22639– 22656	2022
19	S Yasmeen, FA Qais, M Rana, A Islam, Rahisuddin *	Binding and thermodynamic study of thalidomide with calf thymus DNA: Spectroscopic and computational approaches	International Journal of Biological Macromolecules (IF = 8.025)	207	644-655	2022
20	M Rana, A Fatima, N Siddiqui, SH Dar, S Javed, Rahisuddin *	Synthesis, single crystal structure, DNA binding and antioxidant properties of 5-(4- (dimethylamino)phenyl)-3- (thiophen-2-yl)- pyrazoline-1-	Journal of Molecular Structure (IF = 3.841)	1261	132950	2022
21	R Sultana, R Arif, M Rana, S Ahmedi, R Mehandi, Akrema, N Manzoor, Rahisuddin *	2-Amino-5-substituted-1,3,4- oxadiazole as chemosensor for Ni(II) ion detection: antifungal, antioxidant, DNA binding, and molecular docking studies	Luminescence (IF = 2.464)	37(3)	408-421	2022
22	MA Mazhar, S Ahmed, A Husain, Rahisuddin *	Monitoring of Trihalomethanes and its Cancer Risk Assessment in Drinking Water of Delhi City, India	Pollution	8(3)	830-843	2022
23	S. H. Dar, I. A. Ansari, S. Tabrez, M. Rana, M. Usman, S.U. Islam, A. Rub, Rahisuddin *	Synthesis, crystal structures, biological and thermal decomposition evaluation of homo and heteroleptic Zn(II) dithiocarbamate complexes and use of Zn(II) dithiocarbamate to prepare zinc sulfide nanoparticles	Polyhedron (IF = 3.052)	208	115424	2021
24	S. Khan, Akrema, S. Qazi, R. Ahmad, K. Raza, Rahisuddin*	In Silico and Electrochemical Studies for a ZnO–CuO-Based Immunosensor for Sensitive and Selective Detection of <i>E. coli</i>	ACS Omega (IF = 4.132)	6	16076– 16085	2021
25	R. Mehandi, R. Arif, M. Rana, S. Ahmedi, R. Sultana, M. S. Khan, M. Maseet, M. Khanuja, N. Manzoor, Rahisuddin*	Synthesis, characterization, DFT calculation, antifungal, antioxidant, CT-DNA/pBR322 DNA interaction and molecular docking studies of heterocyclic analogs	Journal of Molecular Structure (IF = 3.841)	1245	131248	2021
26	M. Rana, R. Arif, F. Iqbal Khan, V. Maurya, R. Singh, Md. I. Faizan, S. Yasmeen, S. H. Dar, R. Alam, A. Sahu, T. Ahmad, Rahisuddin *	Pyrazoline analogs as potential anticancer agents and their apoptosis, molecular docking, MD simulation, DNA binding and antioxidant studies	Bioorganic Chemistry (IF: 4.831)	108	104665	2021
27	Rizwan Arif, Rahisuddin *	A review on recent developments in the biosynthesis of silver nanoparticles and its biomedical applications	Medical Devices & Sensors	4	e10158	2021

28	M. A. Mazhar, N. A. Khan, A. H. Khan, S. Ahmed, A. A. Siddiqui, A. Husain, Rahisuddin , V. Tirth, S. Islam, N. K. Shukla, F. Changani, M. Yousefi, A. E. Hassaballa N. Radwan	Upgrading combined anaerobic- aerobic UASB-FPU to UASB-DHS system: Cost comparison and performance perspective for developing Countries	Journal of Cleaner Production (IF = 9.297)	284	124723	2021
29	M. A. Mazhar, N. A. Khan, S. Ahmed, A. H. Khan, A. Hussain, Rahisuddin , F. Changani, M. Yousefi, S. Ahmadi, V. Vambol	Chlorination disinfection by- products in municipal drinking water- A review	Journal of Cleaner Production (IF = 9.297)	273	123159	2020
30	R. Arif, M. Rana, S. Yasmeen, Amaduddin, M. S. Khan, M. Abid, M.S. Khan, Rahisuddin *	Facile Synthesis of Chalcone Derivatives as Antibacterial Agents: Synthesis, DNA Binding, Molecular Docking, DFT and Antioxidant Studies	Journal of Molecular Structure (IF = 3.841)	1208	127905	2020
31	R. Arif, P. S. Nayab, Akrema, M. Abid, U. Yadava, Rahisuddin *	Investigation of DNA Binding and Molecular Docking Propensity of Phthalimide Derivatives: In Vitro Antibacterial and Antioxidant Assay	Journal of Analytical Science and Technology (IF: 1.660)	10:19	01	2019
32	I. Mantasha, M. Shahid, M Ahmad, Rahisuddin , A Rizwan, S Tasneem, S Farasha, I.A. Ansari	Synthesis, Crystal Structures, Photoluminescence, Magnetic and Antioxidant Properties, and Theoretical Analysis of Zn(II) and Cu(II) complexes of an Aminoalcohol Ligand Supported by Benzoate Counter Anions	New Journal of Chemistry (IF: 3.288)	43	622	2019
33	M. Naqi Ahamad, M. Shahid, Azaj Ansari, Manjeet Kumar, Ishaat M. Khan, Musheer Ahmad, Rahisuddin , Rizwan Arif	A Combined Experimental and Theoretical Approach To Structure, Magnetic Properties and DNA Binding Affinity of a Homodinuclear Cu(II) Complex	New Journal of Chemistry (IF: 3.288)	43	7511	2019
34	M. S. Khan, M. Khalid, M. S. Ahmad, M. Ahmad, M. Ashafaq, Rahisuddin , R. Arif, M. Shahid	Synthesis, Spectral and Crystallographic Study, DNA Binding and Molecular Docking Studies of Homo Dinuclear Co(II) and Ni(II) Complexes	Journal of Molecular Structure (IF = 3.841)	1175	889	2019
35	F. Sama, M. Raizada, M. Ashafaq, M. N. Ahamad, I. Mantasha, K. Iman, M. Shahid, Rahisuddin , R. Arif, N. A. Shah, H. A. M. Saleh	Synthesis, structure and DNA binding properties of a homodinuclear Cu(II) complex: An experimental and theoretical approach	Journal of Molecular Structure (IF = 3.841)	1176	283	2019
36	R. Arif, Amaduddin, S. Ahmed, S. Ahmed, M. Abid, Rahisuddin *	Synthesis, <i>In Vitro</i> Biological Evaluation and In Silico Studies of Some New Heterocyclic Schiff Bases	Chemistry Select (IF: 1.811)	3	13517	2018

37	M. Z. Ansari, M. Shoeb, P. S. Nayab, M. Mobin, Rahisuddin , I. Khan, W. A. Siddiqi	Honey Mediated Green Synthesis of Graphene Based NiO ₂ /Cu ₂ O Nanocomposite (Gr@NiO ₂ /Cu ₂ O NCs): Catalyst for the Synthesis of Functionalized Schiff-Base Derivatives	Journal of Alloys and Compounds (IF: 4.650)	738	56	2018
38	B.Aneja, A. Rizwan, P. Ahmad, John V Napoleon, P. Hasan, M. M. A. Rizvi, A. Azam, Rahisuddin , M. Abid	hmad, John VAppended Indole-Chalcone(IF: 1.811)Iapoleon, P. Hasan, M.Hybrids as Potential DNAIntercalators Endowed with		3	2638	2018
39	R. Alama, M.A. Alam, A.K. Panda and Rahisuddin *	Alama, M.A. Alam, K. Panda andDesign, Synthesis and Cytotoxicity Evaluation of Pyrazolyl PyrazolineMedicinal ResearchMedicinal		27	560	2018
40	R. Arif, P. S. Nayab, I.A. Ansari, M. Shahid, M. Irfan, S. Alam, M. Abid and Rahisuddin *	Synthesis, molecular docking and DNA binding studies of phthalimide-based copper(II) complex: In vitro antibacterial, hemolytic and antioxidant assessment	Journal of Molecular Structure (IF = 3.841)	1160	142	2018
41	P. S. Nayab, Akrema, Istikhar A. Ansari, M. Shahid, Rahisuddin *	New Phthalimide-Appended Schiff Bases: Studies of DNA Binding, Molecular Docking and Antioxidant Activities	Luminescence (IF: 1.452)	32	298	2017
42	K. Panda, Rahisuddin*Evaluation of 3-(5-(3- (aryl)-1- phenyl-1H-pyrazol-4-yl)-1-phenyl-HK. Panda, Rahisuddin*Evaluation of 3-(5-(3- (aryl)-1- phenyl-1H-pyrazol-4-yl)-1-phenyl-H		Journal of Heterocyclic Chemistry (IF: 1.484)	54	1812	2017
43	P.S. Nayab, M. Irfan, M. Abid, M. Pulaganti, C. Nagaraju, S.K. Chitta, Rahisuddin *	Experimental and Molecular Docking Investigation on DNA Interaction of N-substituted Phthalimides: Antibacterial, Antioxidant and Hemolytic Activities	Luminescence (IF: 1.452)	32	298	2017
44	R. Alam, D. Wahi, R. Singh, D. Sinha, V. Tandon, A. Grover, Rahisuddin *	Design, synthesis, cytotoxicity, HuTopoII alpha inhibitory activity and molecular docking studies of pyrazole derivatives as potential anticancer agents	Bioorganic Chemistry (IF: 4.831)	69	77	2016

45	R. Alam, M.A. Alam,	Design, Synthesis and Cytotoxicity	Heterocyclic	22	221	2016
	A.K. Panda, Rahisuddin *	Evaluation of novel (E)-3-(3-aryl- 1-phenyl-1H-pyrazol-4-yl)-1- (pyridin-3-yl)prop-2-en-1-ones as Anticancer Agents	Communications (IF: 1.057)			
46	I. A. Ansari, F. Sama, M. Shahid, Rahisuddin ; R. Arif, M. Khalid, Z.A. Siddiqi	Isolation of Proton Transfer Complexes Containing 4- picolinium as Cation and Pyridine- 2,6-dicarboxylate Complex as Anion: Crystallographic and Spectral Investigations, Antioxidant Activities and Molecular Docking Studies	RSC Advances (IF: 3.119)	6	11088	2016
47	R. Arif, P.S. Nayab, Rahisuddin *	Synthesis, characterization, DNA binding, antibacterial, and antioxidant activity of new bis-phthalimides	Russian Journal of General Chemistry (IF: 0.716)	86	1374	2016
48	I.A. Ansari, F. Sama, M. Shahid, M. Ahmad, P.S. Nayab, Rahisuddin, Z.A. Siddiqi	Synthesis, Crystal Structures and Spectral Characterization of Cu(II) and Mn(II) complexes of 4- hydroxy-3-methoxybenzaldehyde: Antioxidant Properties and Molecular Docking Studies	Journal of Coordination Chemistry (IF: 1.41)	69	3336	2016
49	Rahisuddin * and Akrema	Extracellular Synthesis of Silver Dimer Nanoparticles using <i>Callistemonviminalis</i> (bottlebrush) Extract and Evaluation of Their Antibacterial Activity	Spectroscopy Letters (0.88)	49	268	2016
50	P.S. Nayab, M. Pulaganti, S.K. Chitta, Rahisuddin*	Multi-spectroscopic and Molecular Docking Studies on the Interaction Of New Phthalimides with Calf- Thymus DNA: <i>In vitro</i> Free Radical Scavenging Activities	Spectroscopy Letters (IF: 0.88)	49	108	2016
51	Rahisuddin ; S.A. AL- Thabaiti, Z. Khan, N. Manzoor	Biosynthesis of Silver Nanoparticles and its Antibacterial and Antifungal Activities Towards Gram-Positive, Gram-Negative Bacterial Strains and Different Species of <i>Candida</i> Fungus	Bioprocess and Biosystems Engineering (2.419)	38	1773	2015
52	P.S. Nayab, M. Pulaganti, S.K. Chitta, Rahisuddin*	A New Isoindoline Based Schiff Base Derivative as Cu(II) Chemosensor: Synthesis, Photophysical, DNA Binding and Molecular Docking Studies	Journal of Fluorescence (IF: 2.093)	25	1763	2015
53	P.S. Nayab, M.Pulaganti, S.K. Chitta, M. Abid, Rahisuddin *	Evaluation of DNA Binding, Radicals Scavenging and Antimicrobial Studies of Newly Synthesized N-substituted Naphthalimides: Spectroscopic and Molecular Docking Investigations	Journal of Fluorescence (IF: 2.093)	25	1905	2015

54	P.S. Nayab, M. Pulaganti, S.K. Chitta, M. Oves, Mohammad; Rahisuddin *	Synthesis, Spectroscopic Studies of Novel N-substituted Phthalimides and Evaluation of Their Antibacterial, Antioxidant, DNA Binding and Molecular Docking Studies	Bangladesh Journal of Pharmacology (IF: 0.80)	10	703	2015
55	Akrema and Rahisuddin*	Biomediated Unmodified Silver Nanoparticles as a Green Probe for Cu ²⁺ Ion Detection	Sensor Letters (0.159)	13	953	2015
56	A. A. Al-Fatlawi, A.A. Al- Fatlawi, M. Irshad, Rahisuddin ; A. Ahmad	Effect of Parthenolide on Growth and Apoptosis Regulatory Genes of Human Cancer Cell Lines	Pharmaceutical Biology (2.971)	53	104	2015
57	S. Hussain, Akrema, Rahisuddin , Z. Khan	Extracellular Biosynthesis Of Silver Nanoparticles: Effects of Shape- directing Cetyltrimethyl ammonium Bromide, pH, Sunlight and Additives	Bioprocess and Biosystems Engineering (2.419)	34	953	2014
58	I. Ali, Rahisuddin , K. Salim, M.A. Rather, W.A. Wani and A. Haque	Advances in Nano Drugs for Cancer Chemotherapy	Current Cancer Drug Targets (IF: 2.807)	11	135-146	2011
59	N. Nishat, Rahisuddin , S. Dhyani	Synthesis, Characterization and Antimicrobial Activity of a New Macrocycle and its Transition Metal Complexes	Journal of Coordination Chemistry (IF: 1.41)	62	996	2009
60	N. Nishat, S. Ahmad, Rahisuddin , T. Ahamad	Synthesis and Characterization of Antibacterial Polychelates of Urea– Formaldehyde Resin with Cr(III), Mn(II), Fe(III), Co(II), Ni(II), Cu(II), and Zn(II) Metal Ions	Journal of Applied Polymer Science (IF = 3.125)	100	928–936	2006
61	N. Nishat, Rahisuddin , M. M. Haq, V.Kumar,	Synthesis, Characterization and Antimicrobial Activity Studies of N-N'-tetracarboxydiethyloxamide Ligand and its Metal(II) Complexes	Journal of Coordination Chemistry (IF: 1.41)	59	1729	2006
62	N. Nishat, Rahisuddin , M. M. Haq	Synthesis and Characterization of New Macrocycles Containing Pendant Groups	Synthesis And Reactivity In Inorganic And Metal- Organic Chemistry	34	335–351	2004
63	N. Nishat, Rahisuddin , M. M. Haq, K.S. Siddiqi	Synthesis and characterization of new 13 and 14-membered macrocycles and their transition metal complexes	Transition Metal Chemistry (IF = 1.366)	28	948	2003

*Corresponding author

14. Books Chapters

S. No.	Author's Name	Title of chapter	Publisher	Year of Publication
64	Mohd Danish Ansari, Nouman, Rabiya Mehandi, Manish Rana, Rahisuddin *	Bioactive Heterocyclic Analogs as Antifungal Agents: Recent Advances and Future Aspects	Springer	2024, 535–563 DIO: org/10.1007/978-981- 97-5165-5_20
65	Summaiyya Khan, Akrema, Rizwan Arif, Shama Yasmeen, Rahisuddin*	Recent Advancement in Nanostructured-Based Electrochemical Genosensors for Pathogen Detection	Springer	2021, 339-358 DOI: org/10.1007/978- 981-15-9904-0_12
66	Akrema, Summaiyya Khan and Rahisuddin*, Rizwan Arif	Nanobiosensors for Agricultural, Medical and Environmental Applications	Springer	2021, 91-120 DOI: org/10.1007/978- 981-15-8346-9
67	Rahisuddin*, Pattan Sirajuddin Nayab, Akrema, Rizwan Arif, Mohammad Abid	Nanoparticles as Targeted Drug Delivery Agents: Synthesis, Mechanism and Applications	Springer	2017, 83, 49 DOI: org/10.1007/978- 981-10-3842-6
68	Akrema and Rahisuddin*	Metal Nanoparticles as Glucose Sensor	Springer	2017, 84, 143 DOI: org/10.1007/978- 981-10-6214-8_5

*Corresponding author

15. Paper /Poster/ Oral Presentation/ Invited/ Guest Lectures in National/ International

Conference/ Seminar/ Workshop:

- 69. Tempelate Synthesis of water soluble Cu(II), Ni(II) and Zn(II) complexes of a new macrocyclic ligand, 3rd National Seminar on Recent Trends in Advancement of Mathematical and Physical Sciences, D.N. College, Meerut, 5-6th February, 2011.
- 70. Syntheses and characterization of metal ion complexes of thalidomide derivative, International Conference on Chemistry Frontiers and Challenges, Department of Chemistry, A.M.U., Aligarh, India, 5-6th March, 2011.
- 71. Synthesis, characterization and anti-cancer activity of transition metal complexes imidazole derived ligand, International Conference on Green Technologies for Environmental Rehabilitation (GTER), Faculty of Engineering & Technology, Gurukul Kangri University, Haridwar, Uttarakhand, India, 11-13th February, 2012.
- 72. Synthesis and characterization of Transition Metal Complexes of 4,5,6,7-Tetrachloro-2-(pyridine-2-yl)isoindoline-1,3-dione, National Conference on New Vistas in Chemistry, Department of Chemistry, A.M.U., Aligarh, India, 2-3rd March., 2012.
- 73. Effects of polar protic and polar aprotic solvents on the stability and morphology of silver nanoparticles, International Conference on Chemistry Frontiers and Challenges, Department of Chemistry, A.M.U., Aligarh, India, 1-2rd March, 2013.
- 74. Design, Synthesis, Characterization and Biological Evaluation of Bis-Phthalimide Derivatives, National Symposium on Chemistry (Under SAP-DRS-I), Department of Chemistry, A.M.U., Aligarh, India, 22nd March., 2014.
- 75. Synthesis, Characterization and Biological Activity of Ni(II) and Cu(II) Complexes with Macrocyclic Ligand, National Seminar on Metal Toxicity and Oxidative Stress, Department of Biosciences, Jamia Millia Islamia, New Delhi, on 23rd 24th September, 2014.
- 76. **Invited Talk**: DNA Binding Studies of N-Substituted Phthalimide Derivatives: A Green Synthetic Approach in National Conference on Green Chemical Technologies for the Progress of the Nation. SISTech., Bhopal, 19th September, 2015.
- 77. Synthesis, Characterization and Biological Evaluation of Pyrazoline Derivatives as Potential Antibacterial Agent in 3rd One day National Conference on The Role of NMR, Department of Pharmaceutical Chemistry, Jamia Hamdard, held on 18th February, 2019.
- 78. **Oral presentation:** Theory and Applicability of Green Chemistry in Environment in National Workshop/Seminar on Green Chemistry and Commission for Scientific and Technical Terminology: A need of Today, PAHER University, Udaipur held on 3rd 4th November 2019.
- 79. **Guest Lecture:** Coordination Compounds and Their Applications for UG & PG Students held on 25th March, 2021 organized by Applied Sciences, Amity University, Sector-125, Noida, UP.

- 80. **Invited Talk:** Nanomaterials: Biological applications in Animals held on 29th November, 2022 organized by Veterinary Research Division, National Research Center, Cairo, Egypt.
- 81. **Invited Talk:** Application of Nanotechnology in the field of animal reproduction held on 4th December, 2022 organized by Theriogenology Department, Faculty of Veterinary Medicine, Cairo University, Egypt.
- 82. **Invited Talk:** Coordination Compounds and their Biological Applications held on 2nd February, 2023, 6th Lecture Series, organized by Maharaja Agrasen College, University of Delhi.
- 83. **Oral presentation:** Design, synthesis and biological applications of N & O containing heterocyclic derivatives held on 19-20 October 2023 in National Conference on Emerging Technologies in Chemistry & their Applications" (NCETCA-23) organized by Govt. College, Sirohi, Rajasthan-307001.
- 84. **Invited Talk:** Coordination Chemistry: Past and Future Advancement on 05.11.2024 organized by Department of Chemistry, Shibli National College, Azamgarh, UP

S.	Programme	Duration with date	Organized by	
No.				
1	92th Orientation Program	Four Week	Academic Staff College,	
		April 13, 2010–	Jamia Millia Islamia,	
		May 10, 2010	New Delhi	
2	3rd Refresher course in Basic	Three Week	Academic Staff College,	
	Science (Interdisciplinary)	09 May 2013–	Jamia Millia Islamia,	
		30 May 2013	New Delhi	
3	1st 3 weeks Refresher course	Three Week	UGC-MHRD Centre,	
	in Contemporary Studies	15 November 2017–	Jamia Millia Islamia,	
	(Interdisciplinary)	06 December 2017	New Delhi	
4	8th 2-Week Online Refresher	Two Week	UGC-MHRD Centre,	
	Course in Basic Science	10 September 2020–	Jamia Millia Islamia, New	
		23 September 2020	Delhi.	
5	Online - NEP Orientation &	4 April 2024 –	MMTC, Jamia Millia	
	Sensitization Programme	14 April 2024	Islamia, New Delhi.	

16. Training Courses, Teaching-Learning-Evaluation, Technology Programmes, Workshops, Faculty Development Programmes.

17. Research Supervision (Ph.D./PDF/RA):

i) PhD degree awarded: 09 (Supervision) & 02 (Co-supervisor)

- ii) PhD perusing: 03
 - Dr. DS Kothari Postdoctoral Fellow: Dr. Shama Yasmeen
 - ICMR-Research Associate: Dr. Summaiyya Khan

iii) PG project/Dissertation guided: 30

18. Students guided for Ph.D. degree:

S. No.	Name of Scholar	Title of PhD	Date of Awarded of PhD degree	Role as
1	Nouman	Synthesis, Characterization, biological and Catalytic Activity of Transition Metal Complexes of Some Heterocyclic Ligands	06.09.2024	Supervisor
2	Asgar Ali	Photoluminescence, <i>4f-4f</i> Absorptionand NMR Studies of Ternary Lanthanide Enolates	14.02.2024	Supervisor
3	Dr. Rabiya Mehandi	Metal Catalysed Synthesis, Characterisation and Biological Applications of Some Heterocyclic Derivatives	16.11.2023	Co-Supervisor
4	Razia Sultana	Design, synthesis and biological applications of some heterocyclic derivatives	06.11.2023	Supervisor
5	Manish Rana	Metal catalyzed Synthesis of Heterocyclic Derivatives and Their Biological Evaluation	15.09.2023	Supervisor
6	Sajad Hussain Dar	Synthesis, Structural Characterization and Biological Studies of Metal Complexes of Dithiocarbamate Derivatives	30.09.2022	Supervisor
7	Mohd. Aamir Mazhar	Spatial Monitoring and Assessment of Trihalomethanes (THMs) in Municipal Water Supply System	17.05.2022	Co-Supervisor
8	Rizwan Arif	Synthesis, Characterization and Biological Activity of Some Heterocyclic Derivatives	13.03.2019	Supervisor
9	Raquib Alam	Synthesis, Characterization and Biological Evaluation of Some Heterocyclic Analogues	30.01.2018	Supervisor

10	Akrema	Synthesis, Characterization and	27.12.2017	Supervisor
		Morphological Studies of Transition Metal Nanoparticles		
11	Pattan Sirajuddin Nayab	Synthesis, Spectroscopic Studies and Biological Evaluation of <i>N</i> -Substituted Phthalimide and Naphthalimide Derivatives	03.08.2016	Supervisor

19. Project Guided at Postgraduate Level

- 1. Equbal Ahmad Khan (2009-10)
- 2. Shahbuddin Dost (2010-11)
- 3. Roshan Nazir (2011-12)
- 4. Nisar Ahamad Chopan (2012-13)
- 5. Noor Jahan (2012-13)
- 6. Md. Kausar Raza (2013-14)
- 7. Sakshi (2013-14)
- 8. Isha (2014-15)
- 9. Bhavna Chaubey (2014-15)
- 10. Arpita Shome (2015-16)
- 11. Neha Sharma (2015-16)
- 12. Nitendra Kumar Sharma (2016-17)
- 13. Alfia Amna (2016-17)
- 14. Neha Abbasi (2017-18)
- 15. Manisha Yadav (2017-18)
- 16. Ishwar Dutt Pathak (2018-19)
- 17. Yogesh Kumar (2018-19)
- 18. Shruti Jain (2019-20)
- 19. Arushi Anand (2019-20)
- 20. Pooja Bawari, Amity University (2020)
- 21. Mohd. Mumtaz (2020-21)
- 22. Preeti Singh (2020-21)
- 23. Mohammad Shahid (2020-21)
- 24. Mohsin Lateef (2021-22)

- 25. Mohammad Lukhman (2012-22)
- 26. Sabiya Khatoon (2021-22)
- 27. Shivam Sharma (2022-23)
- 28. Shahsaad KK (2022-23)
- 29. Vijay Kumar (2023-24)
- 30. Shaherukh (2023-24)

20. Administrative Responsibilities

- ◆ Course Coordinator, B.Sc. Programme, Faculty of Sciences, JMI
- ◆ Course Coordinator, M.Sc. Chemistry, Department of Chemistry
- ◆ Sr. Warden/ Warden, Hall of Boys' Residence, Dr. Zakir Hussain Hall, JMI (2015-2024)
- ◆ Assistant Proctor, Chief Proctorial Department
- ◆ Nodal Officer, IQAC, Faculty of Sciences, JMI
- ◆ Nodal Officer, IQAC, Department of Chemistry
- ◆ Nodal Officer, Jamia Alumni Connect Cell (JAC)
- ◆ Deputy Coordinator, Chemistry Subject Association, Department of Chemistry (2018-2021)
- ◆ Advisor, Chemistry Subject Association, Department of Chemistry (2021-2024)
- ◆ Time Table In-charge, Department of Chemistry
- ◆ Assistant Superintendent of Examination, Department of Chemistry
- ◆ Assistant Superintendent of Examination, Faculty of Natural Sciences
- ◆ Team Manager, Inter-faculty Tournaments, Faculty of Natural Sciences
- ◆ Team Manager, Inter-faculty Tournaments, Faculty of Sciences
- ◆ **Tabulator:** UG and PG course during 2014-2020
- ◆ Member, Sub-Purchase Committee, Department of Chemistry (2012-2015)

Deputy Coordinator/ Advisor:

Extension lectures organized by the Department under Subject Association:

- 1. Exploring nucleic acids based applications via nanotechnology delivered by Dr. Mahima Kaushik held on 27.03.2018.
- SWR1C: A nucleosome editing ATPase motor delivered by Dr. Raushan Singh held on 25.09.2018

- 3. Water Harvesting & Conservation through an Enhanced Geoscientific Knowledge for Swachhta Pakhwara delivered by Prof. Shakeel Ahmed dated held on 13.9.2019.
- 4. Environmental Remediation to Protect Human Health and Environment A Case Study delivered by Dr. Bhabesh Chakrabarti held on 14.10.2019.
- 5. Nanoparticles and their effects on Biochemistry and functional activities of spermatozoa In Vivo and In Vitro delivered by Prof. Saber Mohamed Abd-Allah held on 30.01.2019.
- 6. Dr. Sal Prima Yudha S, Researcher, Universitas Bengkulu, Indonesia Research Scholars of the Department interacted with PhD scholars in the Department of Chemistry, JMI held on 06.12.2019.
- 7. Vigilance Awareness "Vigilant India, Prosperous India" delivered by Haris Bin Zaman (IPS) held on 02.11.2020.
- 8. Vigilance Awareness "Independent India @ 75: Self Reliance with Integrity" delivered by Dr. Md Ejaz Alam held on 29.10.2021.
- 9. Concept for design and development of plastic products delivered by Prof Roli Purwar held on 28.02.2022.
- 10. Applications of Nanoparticles on Animal Biotechnology delivered by Prof. Saber Mohamed Abd-Allah held on 10.06.2022.
- 11. Swatch Bharat: Goal and Issues delivered by Prof. Sirajuddin Ahmad held on 14.09.2022
- 12. Anti-corruption Laws in India to control Corruption" delivered by Prof. Mohammad Asad Malik held on 02.11.2022.
- 13. Solution-Processed Semiconductor Materials for Solar Energy Conversion delivered by Prof. David J. Fermin held on 22.02.2023.
- 14. Green Growth Opportunities for Sustainable Development in India delivered by Prof. Subhra Das held on 17.03.2023.
- 15. Chemistry in aid of eco-friendly lifestyle delivered by Dr. Anirban Das held on 24.03.2023.
- 16. Say no to Corruption; commit to the Nation delivered by Prof. Mohammad Asad Malik, Faculty of Law, Jamia Millia Islamia held on 01.11.2023.

21. Reviewer of Journals

- Asia-Pacific Journal of Chemical Engineering
- Applied Organometallic Chemistry
- Bioprocess and Biosystems Engineering
- Brazilian Journal of Pharmaceutical Sciences
- Synthesis Reactivity Inorganic Metal-Organic Nano Metal Chemistry
- Talanta
- Sensors & Actuators: B. Chemical
- Luminescence
- Journal of Photochemistry and Photobiology A: Chemistry
- Journal of Advanced Research
- Journal of Analytical Science and Technology
- Journal of Coordination Chemistry

- Journal of Nanoparticle Research
- OpenNano
- Nanoscale
- IET Nanobiotechnology
- Research on Chemical Intermediates
- Synthetic Communications
- Zeitschrift für anorganische und allgemeine Chemie
- Environmental Technology
- Polycyclic Aromatic Compounds
- Arabian Journal for Science and Engineering
- Heliyon
- Steroids
- ChemistrySelect
- Journal of Molecular Structure
- Plos One
- Scientific Report
- Polycyclic Aromatic compounds
- Bioorganic Chemistry
- Chemistry and Biodiversity
- Chemical Papers
- Journal of Organometallic Chemistry
- International Journal of Biological Macromolecules