

BIO-DATA OF Dr. R. K. AGARWAL

1.	Name	:	Dr. Ram Kumar AGARWAL
	Designation	:	Retired Associate Professor/ Head of Deptt.
	Department/Institution and address	:	Chemistry Department, Lajpat Rai Postgraduate College (Ch.Charan Singh University) SAHIBABAD(GHAZIABAD)-201 005 INDIA
	Passport No.	:	J-5870947 issued from Ghaziabad,India Valid Upto 03-03-2021)
	Date of Birth	:	April 5, 1949
	Age	:	65 Years
2.	Educational Qualification	:	(Degree conferred high with Bachelor's degree)
	<i>Degree</i>		<i>Institution Conferring</i>
			<i>Field</i>
			<i>Years</i>
	B.Sc.		Meerut College (Meerut Univ.)
			Physics, Chemistry Mathematics
	M.Sc.		Meerut College (Meerut Univ.)
			Chemistry
	Ph.D.		Meerut Univ.
			Coordination Chemistry
	Post Graduation		Charles Univ. (Czechoslovakia)
			Macromolecular Chemistry
	D.Sc.		Ch. Charan Singh Univ. (Formerly Meerut Univ.)
			Coordination Chemistry
	Title of Ph.D.		Studies on complexing behaviour of oxygen donor molecules with Th (IV) and Zr (IV).
	Title of D.Sc.		An investigation on the stereochemistry of the high coordination Compounds of 4f- and 5f-metal ions with oxygen, nitrogen and Sulphur donor ligands.

3. Research/Teaching Experience

<i>Duration</i>	<i>Institution</i>	<i>Designation</i>	<i>Nature of work done</i>
1969-70	Meerut College, Meerut, India	Lecturer	Teaching & Research
1970-2003	L.R.(PG) College, Sahibabad, India	Senior Reader	-do-
2003-2005	The University of the South Pacific Suva-Fiji	Associate Professor	-do-
2006	L.R.(PG)College ,Sahibabad , India	HOD, Senior Reader	-do-
Apr.- August 2008	Eritrea Inst. Of Tech., Asmara, Eritrea	Visiting Professor	-do-
August2008- June 2011.	L.R.(PG)College ,Sahibabad , India	HOD, Senior Reader	-do-
1977-78	Lucknow University	Teacher Fellow	Research
1978-79	Meerut College,Meerut	-do-	Research
Oct. 1980	Institute of Macromolecular	Research Fellow	Research

to June, 1981 Chemistry, (Prague)

May-June 1994 Illinois State University, (USA)

-do-

Research

Teaching Experience	:	42 Years teaching Chemistry at Degree and Post-Graduate level.
Research Experience	:	38 Years. 34 Students received Ph.D. degree and other 01 student already submitted his Ph.D.thesis under my supervision..

Ph.D. Students (Degree awarded under the supervision of DrAgarwal)

- 1) Studies of the stereochemistry of high coordination compounds of oxozirconium (IV) dioxouranium (IV) and thorium (IV) involving some oxygen and nitrogen donor ligands-July 1985—Dr. Subhash C. Rastogi.
- 2) Studies on complexing behaviour of some oxocations toward oxygen and nitrogen donor ligands-July 1986—Dr. Gyanendra Singh.
- 3) Structural investigations of inner-transition metal compounds of aromatic amines and amine N-oxides. (Financed by C.S.I.R., New Delhi)-September 1986—Dr. Sunil K. Gupta.
- 4) A study of complexing behaviour of oxygen donor ligands towards some group IV metal ions-December 1987—Dr. Harish K. Rawat.
- 5) Metal-sulphoxide coordination compounds; structural, thermal and biological aspects. (Financed by C.S.I.R., New Delhi)-December 1989—Dr. Pravesh Kumar.
- 6) Physico-chemical investigation of some actinide coordination compounds of neutral oxygen donor ligands-December 1990—Dr. Jai Prakash.
- 7) Studies on the coordination compounds of thorium (IV) and dioxouranium (VI) with some Schiff bases-April, 1992—Dr. Prashant Dutt.
- 8) The investigations of some coordination compounds of lanthanides (III) with some Schiff bases derived from 4-aminoantipyrine and isonicotinic acid hydrazide-June 1992—Dr. Rajendra K. Sarin.
- 9) Structure and bonding in amino acids and neuropeptide coordination compounds of some biological metal ions. (Financed by C.S.I.R., New Delhi)-December 1992—Dr.(Mrs.) Puneet.
- 10) Physico-chemical investigations of some high coordination compounds of thorium (IV) and dioxouranium (VI)-December 1992—Dr. Kishor Arora
- 11) An investigation of the transition metal complexes of biologically important Schiff bases derived from 4-aminoantipyrine and isonicotinic acid hydrazides-November 1993—Dr. Sudhir Sharma
- 12) Stereochemistry of some higher coordination complexes of 4f-metal ions with some bioactive Schiff bases of pyrazolone and isoniazid-December 1993—Dr. Arun Kumar.
- 13) Synthesis, stereochemistry and biological studies on some oxocation coordination compounds of bioactive thiosemicarbazones derived from aminopyrazolones-April 1994—Dr. Indranil Chakraborti.
- 14) Synthesis and physico-chemical and biological investigations of first row transition metal coordination compounds of some biologically active thiosemicarbazones derived from 4-aminoantipyrine-December 1994—Dr. Gurbachan Singh.

- 15) Structure and bonding of some high coordination complexes of trivalent lanthanide ions with Schiff bases of antipyrine and isonicotinoylhydrazine-March 1995—Dr. Ram Prasad.
- 16) A comparative studies of ligational behaviour of various azomethines, viz., hydrazones of isoniazid, semicarbazones, thiosemicarbazones and oximes derived from 4-aminoantipyrine toward biometal ions-October 1995—Dr. Priyanka Garg.
- 17) Synthesis and characterization of transition metal complexes of semicarbazone and thiosemicarbazone-June 1997 Dr. (Mrs.) Usha.
- 18) Synthesis and physico-chemical and biological and investigations of platinum metal coordination compounds of some biologically active thiosemicarbazones of 4-aminoantipyrine. (Financed by C.S.I.R., New Delhi-April 1992 to March 1995)-August 1996—Dr. Bharat Bhushan.
- 19) Studies on adsorption of nitro-organics from aqueous phase on activated carbon—Dr.(Ms.) Preeti Agrawal in September 1997.
- 20) Synthesis and stereochemistry of 4f and 5f-metal ions coordination compounds with some Schiff bases of 4-aminoantipyrine and hydrazones of isoniazid—Dr. R.K. Dixit. (1998)
- 21) An investigation on structure and bonding in actinides coordination compounds of semicarbazones derived from 4-aminoantipyrine—Dr.(Ms.) Neelam Tyagi (1999)
- 22) Studies on the evaluation of the effect of industrial effluents used as an irrigating agent on physiological processes of the plants and its impact on physico-chemical properties of the soil—Dr. Anand veer Singh Sidhu (2001)
- 23) Synthesis, spectral and thermal studies on some hexa and nona-coordinated complexes of lanthanides with ligands containing N and S—Dr. Alok Kumar Sharma (2001)
- 24) Synthesis of transition and inner transition metal complexes of chlorosulphates and semicarbazones and thin layer chromatographic studies of inorganics—Dr. N.M. Hashmi.(2002)
- 25) Synthesis, spectral and biological studies of some bioactive metal coordination compounds of thiosemicarbazones derived from 4-aminoantipyrine—Dr.(Ms). Neetu Gahlot.(2003)
- 26) Synthesis and physico-chemical investigations of some high coordination compounds of lanthanide(III) metal ions of some biologically active azomethines—Dr.(Ms.) Neetu Goel (2004)
- 27) Studies on Effect of Anions and Dimethyl Sulphoxide as Secondary Ligand on Stereochemistry of Thorium(IV) and Dioxouranium(VI) Coordination Compounds of Semicarbazones of Heterocyclic Bases— Dr Narendra Kumar Sharma (2005)
- 28) Synthesis, Magneto-Spectral and Biological Investigations of Some Transition Metal Coordination Compounds of Biologically Active Hydrazones of Isoniazid—Dr.(Ms). Reetu Singh (2006)
- 29) Synthesis, characterization and pharmacological studies of some mixed ligand complexes of lanthanides(III) derived from semicarbazones containing pyrazolone ring as primary ligand and sulfoxide as secondary ligand-----Dr. Bed Prakash (2007)
- 30) Structural studies on lanthanide (III) complexes of hydrazones of isonicotinic acid hydrazides.
-- Dr.Azhar Aslam Khan (2009)

- 31) Structure and bonding of some mixed ligand complexes of lanthanide (III) derived from semicarbazones as primary ligand and aromatic heterocyclic amines as secondary ligand. ---- Dr. Anil Kumar. (2012)
- 32) Synthesis, stereochemistry and biological investigations of some oxocations coordination compounds derived from $>C=N$ (azomethine) containing ligands. ----- Dr. Hans Raj Modi (2012)
- 33) Synthesis and characterization of some mixed ligand complexes of lanthanides derived from thiosemicarbazones of 4-aminoantipyrine. ---- Dr. Vinesh Kumar. (2012)
- 34) Synthesis and characterization of functionalized macrocyclic ligands and their transition metal complexes as electrochemical sensors. ----- Dr. Om Pal Singh. (2013)
- 35) Responses of PVC membrane electrodes containing expanded porphyrin toward a series of inorganic and organic anions. ---- Mr. Ajay Kumar. (2013)

4. Research Publications

260 in National and International research Journals (including accepted and communicated papers).
Please see the attached list.

5. Major research interest

Coordination Chemistry and Bio-inorganic Chemistry.

6. National Award\International Fellowship

- 1) National Associate ship (University Grants Commission) July 1984-June 1987.
- 2) INSA Visiting Fellowship (Indian National Science Academy) 1992-93.
- 3) UNESCO fellowship (1980-81)
- 4) WEST Foundation fellowship (USA) 2004.

7. Refresher Courses/Summer Institute attended

- 1) Summer Institute in Chemistry for Post-Graduate Teachers, Gorakhpur University, Gorakhpur, India (May-June 1971) (Under Prof. R.P. Rastogi)
- 2) All-India Special Summer Institute in Mathematics for Chemistry and Biology Teachers, Meerut University, Meerut, India (May-June 1972) (Under Prof. J.N. Kapur)
- 3) Advanced All India Summer Institute in Macro and Semi-micro Analytical Chemistry, Madras University, Madras, India (May 1979) (Under Prof. P.B. Janardhan)
- 4) Nineteenth Refresher Course in Radiation and Radio-analytical Chemistry, Bhabha Atomic Research Centre, Mumbai, India (May-June 1980) (Under Dr. K.K. Damodaran)
- 5) Refresher Course in Modern Instrumental Techniques in Chemistry, University of Rajasthan, Jaipur, India (June 1988) (Under Prof. B.C. Joshi)
- 6) All India Workshop-cum-Training Course on Advanced Electrochemistry, Dr. H.S. Gour University, Sagar, India (November 1989)
- 7) Refresher course in Chemistry-Code CH-16, Centre for Professional Development in Higher Education, University of Delhi, Delhi, India (Sept-Oct. 1991)
- 8) UGC refresher Course on Environmental Science Technology, Delhi College of Engineering, Delhi (Dec. 12-30, 1994)

8. Symposia/Seminars/Conferences attended and presented papers

Regularly attending National/International seminars/conferences since 1977. **Papers presented in National/International Conferences.**

1. Presented Keynote lecture on the topic, "Application of thermoanalytical techniques in the investigation of actinides complexes" at Second International Symposium on New Trends in Chemistry, The Role of Analytical chemistry in National Development, University of Cairo, Cairo, Egypt, January 2-7 (1989).
2. Presented Research paper "National Symposium on High Polymers and Coordination Polymers at Nagpur University, Nagpur, India, February 23-25 (1989).
3. Presented Research Paper, "National Seminar on Role of Young Scientists in National Development, M.M. Post Graduate College, Modinagar, India, 14-18 (1989).
4. Presented Research Paper, "National Symposium on Dynamism in Chemical Reaction", Atarra Post Graduate College, Atarra, India October 20-22 (1989).
5. Presented Research Paper in Department of Atomic Energy Symposium on "Radiochemistry and Radiation Chemistry", Nagpur University, Nagpur, India, February 5-8 (1990).
6. Presented Research Paper, "International Symposium on Radiochemistry and Radiation Chemistry, Plutonium-50 years" Bhabha Atomic Research Centre, Mumbai, India, February 4-7 (1991).
7. Presented Research Paper, "Sixty-third Annual Session of the National Academy of Sciences, India (Dedicate to the memory of Prof. N.R. Dhar) at Indian Institute of Science, Bangalore, November 24-26 (1993).
8. Delivered an oral talk on the topic "Stereochemistry of some high coordination compounds of dioxouranium(VI) with thiosemicarbazones" the First International Conference in Chemistry and its Applications, University of Qatar, Doha-Qatar, December 7-9 (1993).
9. Presented Research Paper, "National Research Seminar on Environmental Chemical Pollution", government Post Graduate College, Morena, India, March 23 & 24 (1995).
10. Presented Research Paper, "Symposium on Modern Trends in Inorganic Chemistry, University of Hyderabad, August 17-19 (1995).
11. Presented Research Paper, "Fourteenth Conference of the Indian Council of Chemists", Institute of Sciences, Mumbai, India, December 28-30 (1995).
12. Presented / Chaired the Session, "Fifteenth Conference of the Indian Council of Chemists", Marathwada University, Aurangabad, India, October 24-26 (1996).
13. Presented Research Paper, "Fourth International Symposium on New Trends in Chemistry, The Role of Analytical Chemistry National Development, University of Cairo, Cairo, Egypt, January 4-9 (1997).

14. Presented Research Paper, "17th Conference of Indian Council of Chemists", University of Madras, Chennai, India, November 26-28 (1998).
15. Presented Research Paper at "Research Seminar on Frontier Areas in Chemistry", Government Autonomous K.R.G. College, Gwalior, September 20,21 (1999).
16. Chaired one Session / Presented Research Paper, "19th Conference of Indian Council of Chemists", Kuvempu University, Shimoga, November 27-29 (2000).
17. Chaired/Presented Research Paper "National Seminar on Metallo-Organic Chelates and Recent Advances in Advanced Chemical Research (NSMORAC-2001), Presidency College, Chennai, India, February 9 & 10 (2001).
18. Presented Research Paper, "Seventy First Annual Session of the National Academy of Sciences, India, University of Pune, Pune, India, October 5-7 (2001).
19. Presented Research Paper, "Seventy Second Annual Session of the National Academy of Sciences, India, North-Eastern Hill University, Shillong, India, October 25-27 (2002).
20. Delivered an Invited Lecture on the topic "Some High Coordination Compounds of Lanthanide(III) derived from azomethines – A Review, The Third Jordanian International Conference of Chemistry, Yarmouk University, Irbid, Jordan, April 22-26 (2002).
21. Chaired the session / delivered an invited lecture "Structure and bonding in thorium(IV) coordination compounds", "40th Annual Convention of Chemists 2003" Bundelkhand University, Jhansi, India, December 23-27 (2003).
22. Presented Research Paper, "91st Session of Indian Science Congress Association" Punjab University, Chandigarh, January 3-7 (2004).
23. Presented Research Paper, "41st Annual Convention of Chemists 2004", University of Delhi, Delhi, India, December 23-27 (2004).
24. Presented Research Paper, "92nd Session of Indian Science Congress Association" Nirma University of Science & Technology, Ahmedabad, India, January 3-7 (2005).
25. Presented Research Paper, "Silver Jubilee Conference of Indian Council of Chemists", Birla College of Arts, Science & Commerce, Kalyan, India, December 27-29 (2006).
26. Delivered an Invited Lecture at Petra International Chemistry Conference (PICC), Petra, Jordan, June 25-28 (2007).
27. Presented Research Paper, "National Conference on Recent Advances in Metalloorganic Chemistry (RAMC-2008), Periyar University, Salem, India, October 16 & 17 (2008).
28. Presented a Scientific Paper, "International Society of Biotechnology Conference", Sikkim-Manipal University, Majitar, Sikkim, India, December 28-30 (2008).

29. Presented Research Paper, "Nuclear and Radiochemistry Symposium (NUCAR-2009), SVKM's Mithibai College, Mumbai, India, January 7-10 (2009).
30. Chaired the Session / Presented Research Paper, "28th Annual Conference of Indian Council of Chemists" Hena Chandracharya North Gujarat University, Patan (Gujarat), India, November 7-10 (2009).
31. Presented Research Paper, "97th Annual Session of Indian Science Congress Association", University of Kerala, Thiruvananthapuram (Kerala), India, January 3-7 (2010).
32. Presented Research Paper, "4th International Congress of Chemistry and Environment Conference (ICCE-2009)" Ubonratchathani, Thailand, January 21-23 (2010).
33. Delievered invited talk, 11th Eurasia Conference on Chemical Sciences, 6-10 October 2010, The Dead Sea, Jordan
34. Delievered invited talk, XXIX-Annual Conference of ICC, 19021 Dec.2010, Punjab Univ. Chandigarh, India
35. Presented research paper, 98th ISCA, 3-7 Jan. SRM Univ. Chennai, India
36. Delievered a invited talk at National Conference on "Green Chemistry: An approach to meet the challenges of sustainability (GCMS-2011) 22-23 Jan 2011, M.M.H.College, Ghaziabad, India.
37. Delievered an invited lecture at 6th Jordanian International Conference of Chemistry, 19021 April 2011, Yarmouk University, Irbid, Jordan.
38. Delievered an invited talk at International Conference of Indian Council of Chemists, 12-14th June 2011 at Bangkok, Thailand.
39. Presented invited lecture during Convention of Association of Chemistry Teachers Oct. 2011) at Patna.
40. Presented research paper at 2nd International conference on pure and applied chemistry 2-5th June 2012 at University of Mauritius, Mauritius.
41. Presented research paper at NUCAR-2013 (Organized by BARC Mumbai) at Govt. College, Jabalpur 19-23 Feb.2013.
42. Delievered an invited talk at 7th ICMMA conference at Anhui University of Science and Technology, Anhui, China 21-23 November 2013.
43. Presented a research paper at 83rd Annual session of the National Academy of Sciences at Goa University. December 5-7, 2013.
44. Presented a research paper at Nuclear Analytical Chemistry-Fifth conference at Bhabha Atomic Research Centre, Mumbai. 2-24th January 2014.

9. International Participation

1. UNESCO International Award for Post-graduation course in Macromolecular Chemistry, Charles University/Institute of Macromolecular Chemistry, Prague, Czechoslovakia, 1980-81.
2. 2nd International Symposium on new trends in Chemistry, The role of analytical Chemistry in National Development, Presented a Key Note lecture on "Application of Thermo-analytical Techniques in the Investigations of Actinide Complexes", Cairo University, Cairo (Egypt), January 1989 (Sponsored by INSA, New Delhi and Meerut University, Meerut).
3. 1st International Workshop in Inorganic-Biochemistry Donation'90. Presented an invited lecture on, "N-substituted Hydrazinic Acids—The Potential Ligands for biologically active Metal-Complexes", Wroclaw University, Wroclaw, Poland, September 1990 (Sponsored by U.G.C., New Delhi).
4. Visited A.R. Egypt under Indo-Egypt Cultural Exchange Program (University Grants Commission, New Delhi and Govt. of Egypt)-September-October, 1992.
5. The 1st International Conference in Chemistry and its Applications, University of Qatar, Doha, State of Qatar, December 1993. Presented research papers in this conference (Sponsored by University of Qatar).
6. Visited the University of Michigan, Ann-Arbor, USA to present paper at Joint Regional American Chemical Society Meeting, June 1-3,1994/Worked at Illinois State University (June-July 1994) (Sponsored by West Foundation).
7. Fourth International Symposium on New Trends in Chemistry, Cairo University, Egypt, January 1997.Presented research paper on "Studies on structural and thermal aspects of some dioxouranium (VI) complexes of semicarbazones of 4-aminoantipyrine".
8. The 2nd International Conference in Chemistry and its Applications, University of Qatar, Doha, State of Qatar, December 2003. Presented research papers in this conference (Sponsored by The University of the South Pacific, Suva-Fiji). December 2003.
9. Petra International chemistry conference (PICC) and transmediterranean colloquim on hetrocyclic chemistry (Tramech-5). Presented lecture on ," Studies on high coordination compounds of thorium(IV) Schiff bases as invited lecture. 25-28 June 2007.
10. Presented Research Paper, "4th International Congress of Chemistry and Environment Conference (ICCE-2009)" Ubonratchathani, Thailand, January 21-23 (2010).
11. Delivered Invited talk at 11thEurasia Conference of Chemical Sciences, October 2010 at Dead Sea, Jordan.
12. Delivered Invited talk at 6th Jordanian International conference April 2011 , Yarmook University, Irbid, Jordan
13. Delivered Invited talk at International Conference of Indian Council of Chemists, 12-14 June 2011 at Bangkok, Thailand.
14. Presented research paper at 2nd International conference on pure and applied chemistry 2-5th June 2012 at University of Mauritius, Mauritius.

10. Editor/Referee:

- Asian Journal of Chemistry (Founder, Editor-in-Chief)
- Oriental Journal of Chemistry (Member of Editorial Board)
- Referee of Egyptian Journal of Chemistry and Oriental Journal of Chemistry
- Ph.D. Thesis Examiner of Indian and Egyptian Universities
- Jordon Journal of Chemistry (Member of Editorial Board)
- Referee of Phosphorus, sulfur and selenium and related elements.

11. Member/Fellow of the Learned Academic Bodies:

- Life Fellow, Indian Chemical Society, Calcutta, India
- Life Fellow, Institution of Chemists, Calcutta, India
- Life Fellow, Indian Council of Chemists (Agra) and Vice-President of Central zone(2000-2005)
- Life Fellow, Indian Thermal Analysis Society, (B.A.R.C., Mumbai, India)
- Life Member, Indian Science Congress Association, Calcutta, India
- Life Member, National Academy of Sciences (India), Allahabad, India
- Life Member, Indian Assoc. of Nuclear Chemists and Allied Sciences (B.A.R.C., Mumbai, India)
- Member, Sigma Xi (USA)
- Member, I.U.P.A.C. (U.K.)
- Member, New York Academy of Sciences, (USA)

12. Research supports to the investigator from various sources

- (a) C.S.I.R., New-Delhi on the project, Structural Investigations of Inner Transition Metal Complexes of Aromatic Amine N-Oxides. E.M.R.-115/(22)/83 July 1983-February 1987 (Total Rs.77500/-).
- (b) C.S.I.R., New-Delhi on the Project, Metal-Sulphoxide Compounds—Structural, Thermal and Biological Aspects”, E.M.R.-115(42)/84, March 1984-February 1987 (Total Rs.87, 000/-).
- (c) C.S.I.R., New-Delhi on the Project, “Structure and Bonding in Neuro-peptide Complexes of Biological Metal Ions” January 1988-January 1991 (Total Rs.1, 37,285/-).
- (d) C.S.I.R., New-Delhi on the Project, Synthesis and Physico-Chemical and Biological Investigations of Platinum metal Coordination Compounds of Some Biologically active Thiosemicarbazones of 4-Aminoantipyrene..E.M.R.-II-01/(1242)/92, April 1992-March 1995 (Total Rs.214448/-).
- (e) U.G.C., New-Delhi under minor research project, Only Rs.4, 000/- July 1985 to June 1987, Project, stereochemistry of some high coordination compounds of ZrO (IV) and UO₂ (VI).
- (f) U.G.C., New-Delhi under minor research project , only Rs. 12,500/- July 1987-June 1989, Project, Magneto, spectral and biological investigations of some transition metal complexes.
- (g) U.G.C., New Delhi under minor research project, only Rs. 19000/- (January 1991-January 1993),Project, Studies on the coordination compounds of thorium (IV) and dioxouranium (VI) with some Schiff bases.
- (h) U.G.C., New Delhi under minor research project, only Rs.12000/- April 1995-July 1997) Project, Synthesis, characterization and biological investigations of some transition metal-coordination compounds of biological active thiosemicarbazones derived from 4-aminoantipyrene.

- (i) U.G.C., New Delhi under minor research project, only Rs.16500/- (October 1997-April 1999) Project, An investigation on structure and bonding in actinide coordination compounds of semicarbazones derived from 4-aminoantipyrine.

PUBLICATIONS OF Dr. R. K. AGARWAL

1. Thermal behavior of oxozirconium(IV) complexes of 2,2'-bipyridine-1,1'-dioxide;
R.K. Agarwal, V. Kapur, A.K. Srivastava and T.N. Srivastava
Nat. Acad. Sci. Letters (India), **2**, 447 (1979).
2. Oxozirconium (IV) complexes of triphenyl phosphine oxide;
R.K. Agarwal, A.K. Srivastava and T.N. Srivastava
Indian J. Chem., **18A**, 459 (1979).
3. π -Bonded complexes of oxygen donor ligands with oxozirconium (IV) tetraphenylboronate;
R.K. Agarwal, A.K. Srivastava and T.N. Srivastava
Curr. Sci., (India), **48**, 1077 (1979).
4. Thorium (IV) complexes of 2,6-lutidine N-oxide and tetramethylene sulphoxide;
R.K. Agarwal, A.K. Srivastava and T.N. Srivastava
Transition Met. Chem., **5**, 95 (1980).
5. Thorium (IV) complexes of mono N-oxide of 2,2'-bipyridine and 1,10-phenanthroline;
R.K. Agarwal, P.C. Jain, V. Kapur, S. Sharma and A.K. Srivastava
Transition Met. Chem., **5**, 237 (1980).
6. Thorium (IV) complexes of 2,2'-bipyridine 1,1'-dioxide;
R.K. Agarwal, A.K. Srivastava and T.N. Srivastava
J. Inorg. Nucl. Chem., **42**, 1366 (1980).
7. Oxozirconium (IV) complexes of 2-methylpyridine N-oxide;
R.K. Agarwal, P.C. Jain, M. Srivastava, A.K. Srivastava and T.N. Srivastava
J. Inorg. Nucl. Chem., **57**, 374 (1980).
8. Complexes of thorium (IV) perchlorates, nitrates and thiocyanates with some heterocyclic bases;
R.K. Agarwal, Neelu Bhakru, M. Srivastava, A.K. Srivastava and T.N. Srivastava
J. Inorg. Nucl. Chem., **42**, 1775 (1980).
9. Oxozirconium (IV) complexes of tetramethylene sulphoxide;
R.K. Agarwal, A.K. Srivastava and T.N. Srivastava
Inorg. Nucl. Chem. Letters, **16**, 311 (1980).
10. Oxozirconium (IV) complexes of pyridine and 2,6-lutidine N-oxides;
R.K. Agarwal, V. Kapur, A.K. Srivastava and T.N. Srivastava
J. Indian Chem. Soc., **58**, 279 (1981).
11. Aromatic amine N-oxide complexes of thorium (IV) thiocyanate;
R.K. Agarwal, M. Srivastava and T.N. Srivastava
J. Inorg. Nucl. Chem., **43**, 203 (1981).
12. Thorium (IV) complexes of pyrazolone ligands;
R.K. Agarwal, A.K. Srivastava and T.N. Srivastava
Proct. Nat. Acad. Sci. (India), **51A**, 79 (1981).
13. Pyrazolone derivatives of oxozirconium (IV);
R.K. Agarwal, A.K. Srivastava and T.N. Srivastava
J. Indian Chem. Soc., **58**, 710 (1981).
14. Oxozirconium (IV) complexes of 1,10-phenanthroline mono N-oxide;
R.K. Agarwal, M. Srivastava and T.N. Srivastava
J. Inorg. Nucl. Chem., **43**, 2144 (1981).
15. Oxozirconium (IV) complexes of 2-ethoxycarbonylaminopyridine N-oxide;
R.K. Agarwal, M. Srivastava and A.K. Srivastava
Nat. Acad. Sci. Letters (India), **4**, 361 (1981).
16. Far IR spectra of thorium (IV) halide complexes of some heterocyclic bases;
R.K. Agarwal, M. Srivastava, V. Kapur and T.N. Srivastava
J. Inorg. Nucl. Chem., **43**, 1393 (1981).
17. π -Bonded five-coordinate complexes of oxovanadium (IV);
R.K. Agarwal, V. Kapur, Sunita Sharma, P.C. Jain and T.N. Srivastava
Proct. Nat. Acad. Sci. (India), **51A**, 260 (1981).
18. Diphenyl sulphoxide and dibenzyl sulphoxide compounds of tin tetrahalide;
R.K. Agarwal, Neelu Bhakru and T.N. Srivastava
J. Inorg. Nucl. Chem., **43**, 402 (1981).

19. Oxozirconium(IV) complexes of hexamethylphosphoramide;
R.K. Agarwal, A.K. Srivastava and T.N. Srivastava
Croat. Chem. Acta (Yugoslavia), **54**, 329 (1981).
20. Complexes of hydrazine and substituted hydrazine with some oxocations;
R.K. Agarwal, V. Kapur, Sunita Sharma, P.C. Jain, M. Srivastava and A.K. Srivastava
Transition Met. Chem., **7**, 41 (1982).
21. Thermal studies on complexes of thorium (IV) with 2,6-lutidine N-oxide and tetramethylene sulphoxide;
R.K. Agarwal and A.K. Srivastava
Thermochim. Acta, **56**, 247 (1982).
22. Thermal studies on complexes of zirconium (IV) and thorium (IV) with pyrazolones;
R.K. Agarwal, M. Srivastava and A.K. Srivastava
Ind. Engg. Chem. Products Res. & Dev. (Amer. Chem. Soc.), **21**, 135 (1982).
23. Infrared studies of some selenocyanato complexes of oxozirconium (IV) with O and N donor ligands;
J.R. Chopra, A.N. Pandey, S.P. Sharma and R.K. Agarwal
Croat. Chem. Acta (Yugoslavia), **55**, 283 (1982).
24. Thorium (IV) and dioxouranium (IV) chelates of aromatic amino N-oxide;
R.K. Agarwal, Sunita Sharma and A.K. Srivastava
Inorg. Chim. Acta (Italy), **61**, 235 (1982).
25. Complexes of oxozirconium (IV) perchlorates, nitrate and thiocyanate with some heterocyclic bases;
R.K. Agarwal, A.K. Srivastava and M. Srivastava
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