

Shri Shivaji College of Arts, Commerce and Science, Akola

Faculty Profile



1. Name : **DR. RAHUL BABARAO MOHOD**
2. Address (residential) : "Swapnadeep", Nayapress, Akot.
Dist.Akola.
3. Phone no. / Cell no. : +91-9822709072
4. E-mail address : rahul_mohod@rediffmail.com
5. Designation : Assistant Professor
6. Department : Chemistry
7. Date of birth : 1st October 1971.
8. Area of Specialization : Inorganic chemistry.
9. Academic Qualification : M.Sc., Ph.D., B.Ed.

Examination Passed	Board/University	Subject Specialization	Year of Passing	Division/Grade/Merit
Bachelor's Degree	Amravati	Chemistry, Physics, Mathematics	1992	I
Masters degree	Amravati	Inorganic Chemistry	1994	I
Ph. D.	Amravati	Inorganic Chemistry	1999	--
Other Degree/ Diploma	Amravati	B.Ed.	1995	I

10. Membership of Academic organization:

- Member of "Amravati University Chemistry Teachers' Association (AUCTA)".
- Life Member of Indian Society for Technical Education (ISTE).

11. Research Experience

a. Publishing Research Papers

1. **R. B. Mohod** and A. S. Aswar. Thermal studies of some transition metal chelates of polyschiff base (PSB), *THERMANS*, 159 (1998).
2. R. B. Mohod and A. S. Aswar. Synthesis and characterization of transition metal chelates of polymeric Schiff base, *J.Int.Acad.Phys.Sci.* 1(3-4), 129 (1997).
3. R. B. Mohod and A. S. Aswar. Synthesis, thermal, electrical and antimicrobial studies of some polychelates of polyschiff base (PSB), *Bulletin of Electrochemistry*, 14(11), 443(1998).
4. R. B. Mohod and A. S. Aswar. Synthesis and characterization of Mn(II), Co(II), Ni(II), Cu(II), Zn(II) and Cd(II) polychelates of Schiff base derived from dihydroxydibenzoyl biphenyl and butanedionedi-hydrazone, *Polish J. Chem.*, 73, 599 (1999).

5. S. G. Bhadange, R. B. Mohod and A. S. Aswar. Thermogravimetric studies of some polymeric Schiff base chelates, THERMANS, 185(2000).
6. R. B. Mohod and A. S. Aswar. Thermal and structural studies of Mn(II), Co(II), Ni(II), Cu(II), Zn(II) and Cd(II) chelate polymers of bis(mercaptoacetamido)-diaminophenylmethane, J. Ind. Council of Chemists, 13(1), 40 (2000).
7. R. B. Mohod and A. S. Aswar. Synthesis and characterization of divalent metal polychelates, Proc. Nat. Acad. Sci., India, 70(A), III (2000).
8. R. B. Mohod, R.V. Wasu and A. S. Aswar. Synthetic, structural and electrical studies of some polychelates derived from bis(mercaptoacetamido)-3,3'-dimethoxybenzidine, J. Indian Chem. Soc., 78, 34 (2001).
9. R. B. Mohod, R. V. Wasu and A. S. Aswar. Synthetic, structural, thermal and electrical properties of some transition metal polymeric chelates of bis-(mercaptoacetamido)-diaminobutane, Polish J. Chem., 75, 1229 (2001).
10. S. G. Bhadange, R. B. Mohod and A. S. Aswar. Synthesis and characterization of Manganese(III), Iron(III), Zirconium(IV), Thorium(IV), Oxovanadium(IV) and Dioxouranium(VI) chelates of polymeric Schiffbase (PSB), Indian J. Chem., 40A, 1110 (2001).
11. R. B. Mohod, R. V. Wasu and A. S. Aswar. Synthesis and characterization of polymeric metal chelates, J. Nat. Acad. Sci. 2007. (In Press).
12. R. B. Mohod and A. S. Aswar. Synthetic, structural, electrical and antimicrobial studies of some polychelates. J. New Polym. Mater. 2007. (In Press).
13. R. B. Mohod and A. S. Aswar. Structural and electrical studies on Mn(II), Co(II), Ni(II), Cu(II), Zn(II) and Cd(II) polychelates with bis(mercaptoacetamido)-diaminodiphenylmethane, J. Indian Chem. Soc., 2008 (Communicated).
14. R. B. Mohod and A. S. Aswar. Structural and thermal studies of some transition metal chelates of polyschiff base (PSB), European J. Chem., 2008 (Communicated).
15. R. B. Mohod and A. S. Aswar. Synthetic and Electrical studies of Mn(II), Co(II), Ni(II), Cu(II), Zn(II) and Cd(II) chelate polymers of bis(mercaptoacetamido)-diaminophenylmethane, Iranian J. Chem., 2008 (Communicated).

b. Seminars/Conference/Symposia/Workshop; attended/Organized

Sr. No.	Name of Conf./Seminar/ Workshop	Place and Name of the sponsoring Agency	Place and Date	Paper Presented

1.	32 nd Annual Convention of chemists	Indian Chemical Society, Calcutta	Jaipur, 1995	Coordination polymers derived from dihydroxydibenzoyl biphenyl butanedione dihydrazone, ING(OP)-34
2.	83 rd Session of Indian Science Congress	Indian Science Congress	Patiala, 1996	Synthesis and characterisation of Manganese(II), Cobalt(II), Nickel(II), Copper(II), Zinc(II) and Cadmium(II) polychelates of 4,4'-dihydroxy-3,3'-dipropoxybiphenyl butanedione dihydrazone, ING(OP)-36
3..	National Symposium on Metallo-organic Chemistry, Gorakhpur(1997)	UGC	Gorakhpur 1997	Synthesis and physico-chemical studies of chelate polymers derived from 4, 4'-dihydroxy-3,3'-dipropoxybiphenyl- <i>p</i> -phenylenediamine
4.	THERMANS-98	THERMANS	Mumbai1998.	Thermal decomposition studies of polyschiff base chelates, ANACONE, P-16
5.	2 nd Annual Convention of Int. Acad. Phys. Sci.	UGC	Bilaspur 1998	Synthetic, magnetic, spectral and thermal studies of some polychelates
6.	35 th Annual Convention of Chemists	UGC	Dharwad 1998	Thermal and spectral studies of divalent metal chelates of polymeric Schiff base(PSB), ING-(OP).
7.	17 th Conference of Indian Council of Chemists,	UGC	Chennai1998.	Structural, electrical and antimicrobial studies of some coordination polymers

8.	THERMANS-99	THERMANS	Mumbai1999	Thermal studies of some transition metal chelates of polyschiff base (PSB).
9.	86 th Session of Indian Science Congress Association	Indian Science Congress Association	Madras1999.	Synthesis and charecterisation of Iron(II),Oxovanadium(IV),Zirconium(IV),Thorium(IV) and Dioxouranium(VI) polychelates of polymeric Schiff Base,
10.	National Seminar on polymer	UGC	Delhi 1999	Structural and electrical properties of some polymeric Schiff chelates,
11.	National Seminar on Analytical Methods in Labs. And Industry	UGC	Rohtak 1999	Thermal analysis of some polyschiff base chelates
12.	National Symposium/ Conference on Solid State and Allied Center Jammu	UGC	Jammu 1999.	Synthesis and charecterisation of polychelates with polymeric ligands derived from dihydroxyketone Schiff bases,
13.	9 th Annual Convention of Electrochemistry	CSIR	Surat 1999	Electrical properties of some polyschiff base chelates
14.	International Conference on Chemistry and 36 th Annual Convention of Chemists	UGC	Calcutta 1999	Spectral,thermal and electrical studies of some polymeric Schiff base chelate derived from 4,4'-dihydroxy-3,3'-dibenzoyl biphenyl-o-phenylenediamine
15.	THERMANS-2000	UGC	Mumbai 2000	Thermogravimetric studies of some polymeric Schiff base chelates
16.	87 th Session of Indian Science Congress	Indian Science Congress	Pune 2000.	.Synthetic, charecterisation and antimicrobial studies of

	Assosiation, Pune(2000).	Assosiation		some polyschiff base chelates
17.	37 th Annual Convention of Chemists	UGC	Hardwar 2000.	Synthesis, charecterisation and biological studies of some polyschiff base chelates
18	Third National Symposium in Chemistry, Chandigarh	UGC	Chandigarh 2001.	Synthesis and characterization ofManganese (III), Iron (III), Zirconium(IV),Thorium(IV), Oxovanadium(IV) and dioxouranium (VI) chelates of polymeric Schiff base (PSB)
19	88 th Session of Indian Science Congress Association, Delhi	Indian Science Congress Association,	Delhi 2001	.Synthetic,Structural, thermal and electrical studies of some transition metal polymeric chelates
20	39 th Annual Convention of Chemist, Nagarjunnagar (2002).	UGC	Nagarjunnagar 2002.	Synthesis and charecterization of some transition metal chelates of polyschiff base (PSB),
21	National Seminar on Renewable Energy Sources and Other Technologies For Rural Development (RESTRD)	Ministry of human resource	Shegaon during 09-10 March 2002.	
22	40 th Annual Convention of Chemists	UGC	Jhansi 2003	Structural and Thermal Studies of Mn(II), Co(II), Ni(II), Cu(II), Zn(II) and Cd(II) chelate polymers of bis(mercaptoacetamido)-diaminophenylmethane
23	Annual Convention of	Ministry of	SSGM College of	

	Indian Society for Technical Education Maharashtra and Goa Section based on the theme "Technical Education, Spirituality and Humanity"	human resource	Engineering, Shegaon during 21-22 December 2002.	
24	National Conference on Emerging Trends in Chemical Sciences in the New Millennium	UGC	Amravati 2004.	Synthetic, structural, electrical and antimicrobial studies of some polychelates
25	National Seminar on Advanced Materials (NSAM-2004)	UGC	Kamala Nehru Mahavidyalaya, Nagpur on 1 st February 2004.	
26	National Seminar on Autonomy and Accreditation of Technical Institutions- Global Perspectives	NBA, New Delhi	SSGM College of Engineering, Shegaon held at on 29 th February 2004.	
27	Regional Convention of Indian Association of Physics Teachers	SSGM College of Engineering, Shegaon	SSGM College of Engineering, Shegaon during 18-19 December 2004.	
28	Advanced Materials on the Eve of Superannuation of Prof. N. S. Bhave held at Department of Chemistry,	R.T.M. Nagpur University, Nagpur.	R.T.M. Nagpur University, Nagpur on 12 th Febuary 2007.	
29	International Conference on Drug Discovery and Nanotechnology,	UGC and DST	Nanded 2008.	Synthetic And Antimicrobial Studies Of Some Polychelates, <i>DDPP-152</i> ,
30	National conference on	UGC and DST	Amravati	Study of Synergistic Effect

	Green chemistry		2008	of Metal and Thei Pharmaceutical Complexes on Agricultural Byproduct, IP-45.
31	Regional Seminar on Recent Trends in Heterocyclic Compounds in Chemical, Medicinal and Pharmaceutical Sciences	UGC	Mahatma Fule Arts, Commerce and Sitaramji Chaudhari Science Mahavidyalaya, Warud, Dist.-Amravati on 2 nd March 2008.	
32	National Seminar on Current Trends in Chemical Sciences Research	UGC	Department of Chemistry, Shri Shivaji College of Arts, Commerce and Science, Akola on 28 th March 2008.	
33	State Level Seminar in Chemistry on Metal Pollution	Department of Chemistry in collaboration with Chemistry Teachers' Association	RTM Nagpur University, Nagpur at Science College, Pauni on 31 st August 2008.	
34	National Conference on Recent Advances in Chemical Research,	UGC	Osmania University, Hydrabad on 6-7 February, 2009.	Structural and electrical studies on Mn(II), Co(II), Ni(II), Cu(II), Zn(II) and Cd(II) polychelates with Bis(mercaptoacetamido) Diaminidiphenylmethane, PP 208
35.	National conference on Advanced Material and Technology (NCAMT- 09)	UGC	Department of Chemistry, Science College, Nagpur on 29- 30 December 2009.	
36.	<i>National Conference on Green Chemistry and</i>	UGC	<i>S.S.V.P.S's L.K. Dr. P.R. Ghogrey Science</i>	Preparation, Charecterization, Thermal

	<i>Environmental Pollution</i>		<i>College, Dhule on 16-17 January 2010.</i>	and Antimicrobial Studies of some Divalent Metal Complexes, <i>PP 05.</i>
37.	National Workshop on Green Chemistry	UGC-DST	Department of Chemistry, Sant Gadge Baba Amravati University, Amravati on 17-18 February 2010.	
38.	National conference on Advances in Material Research (NCAMR-10)	UGC	Department of Physics and Chemistry, Shankarlal Khandelwal Arts, Science and Commerce College, Akola on 26-27 February 2010.	
39.	National conference on Recent Trends in Chemical Research, 2010		P. G. Department of Chemistry, G.S.Gawande College, Umerkhed and Amravati University Chemistry Teachers' Association, Amravati (AUCTA) on 12-13 March 2010.	
40.	National Conference on Green Technology		Department of Mechanical Engineering and Applied Sciences and Humanities, S.S.G.M. College of Engineering, Shegaon during 16-17 April 2010.	Lead Acid Battery Maintenance and Safety.
41.	International Conference on Biodiversity and Environmental Crisis: Past, Present and Future,	UGC	Department of Botany, Geography & Chemistry, S.S.V.P.S.S.'s L.K. Dr. P. R. Ghogrey Science College, Dhule during	Novel Synthesis and Antibacterial Activity of Bis(mercapto acetamido) Diamino Butane Polymeric Chelates,

			11-13 february 2011.	
42.	A Motivational Soft Skill Development Workshop organized by Career Guidance and Placement Cell,		Shri Shivaji College of Arts, Commerce and Science College, Akola on 20 February 2011.	
43.	State Level Workshop on "Research Methodologies in Science"	UGC	Faculty of Science, Shankarlal Khandelwal Arts, Science and Commerce College, Akola on 26 February 2011.	
44.	National conference on material: atom to molecule	Shri Shivaji science college Nagpur	Shri Shivaji science college Nagpur 16Dec 2011	Effect of pH in the determination of zirconium complex spectrophotometrically
45.	National conference 'Recent advances in synthetic chemistry and nanomaterials'	Department of Chemistry, Shivaji University Klohapur	Department of Chemistry, Shivaji University Klohapur 21,22/1/2012	Spectrophotometric determination of Uranium with methyl thymol blue
46.	National conference on Recent Researches in Chemistry: A journey towards social upliftment	Lokmanya Tilak Mahavidyalaya, Wani	14,15/02/2012	Paper presented

13. Research Projects Completed / Ongoing

Title of the Project	Funding agency	Duration	Remarks
Thermal and electrical conductivity properties of some Co(II), Cd(II) and Zn(II) 1-substituted-3-formamidino thiocarbamides complexes	UGC	2 Years	completed

14. Teaching Experience

Course Taught	Name of the University/ College/ Institution	Duration
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UG	Vidya Bharati College, Amravati.	06 Years
UG	Govt. College of Engineering, Amravati.	01 Year
UG	S.S.G.M.College of Engg., Shegaon.	04 Years 06 Months
UG	Shri Shivaji College, Akot	03 Years
UG	Shri Shivaji College of Arts, Commerce & Science, Akola.	01 Year 10 months
PG	P. G. T. D. of Chemistry, Amravati University, Amravati	06 Years
PG	Vidya Bharati College, Amravati.	06 Years
PG	Shri Shivaji College of Arts, Commerce & Science, Akola.	01 Year 10 months
Carrier Oriented Programme : Gravimetric and Volumetric Analysis	Shri Shivaji College of Arts, Commerce & Science, Akola.	2 Years

15. Innovative/ Contributions in Teaching

Design of Curriculum:

- Designed the curriculum of Industrial Chemistry for B. Sc.I, B.Sc.II and B.Sc.III courses.

Teaching Methods:

- To create interest in the subject the seminars were arranged in the classes.
- To simplify the topics models and charts were used during teaching.
- During teaching, discussion method and question-answer method were used in the classroom.

Laboratory Experiments:

- The experiments are demonstrated with the help of diagrams, models, and instruments.
- To create interest of the students in practical various projects are given to them.

Preparation of resource materials:

- Two Books have been published on Engineering Chemistry.
- One Book has been published on Practical Chemistry for B.Sc. II year students.
- The teaching material was prepared by using various books.

- The question bank has been prepared for the students so that they should aware of University examinations.

Remedial teaching:

- Special classes were arranged for the backward and poor students
- Taught SC and ST students under remedial coaching scheme sponsored by U.G.C.

Extension activities/ consultancy/ community works:

- Participation in the N.S.S. Program organized by the college
- Analysis of edible oil from different oil mills in Akot have been carried out.

16. Role in college activities.

- Worked as a member of admission committee.
- Worked as a Coordinator of 'Intercollegiate Seminar Competition' for B.Sc. I year students in the joint venture of AUCTA.
- Worked as a member of University Youth Festival Committee organized by Shri Shivaji College, Akola.
- Incharge of Aptitude Test in Chemistry for B. Sc. Final Students organized by AUCTA.
- Participation in Teacher Guardian Scheme.
- Worked as member of college vigilance committee.
- Member of various committees in Jayanti Utsav of Shikshan Maharshi Dr. Bhausaheb Alias Panjabrao Deshmukh.
- In charge of Chemical Society from 2008 to 2009.
- Member of Science Association Committee.

17. Role in university activities:

- Worked as External/Internal Examiner for University Practical Examinations.
- Worked as A valuer for University Examination.

18. Membership/ Participation in Activities of national development

- Participated in Blood donation camp
- Worked as a Presiding officer in Parliamentary Election