

BIO-DATA		
<b>Name</b>	Dr. H. P. S. CHAUHAN	
<b>Designation</b>	PROFESSOR	
<b>Educational Qualifications</b>	M.Sc.; Ph. D.	
<b>Date of Birth</b>	01-07-1958	
<b>Address</b>	<b>Official–</b>	School of Chemical Sciences Takshashila Campus Devi Ahilya Vishwavidyalaya Indore (M.P.) Pin- 452 001
	<b>Residential</b>	438, TREASURE TOWN BIJALPUR, INDORE (M. P.) PIN- 452012
<b>E-mail</b>	hpssc@rediffmail.com	
<b>Contact Details</b>	<b>Office</b>	(731) 460208
	<b>Residence</b>	(731)
	<b>Mobile</b>	(+91)9826219748
<b>Academic Profile</b>	<b>Lecturer</b> : March 21, 1986 to July 08, 1991 <b>Reader</b> : July 09, 1991 to July 08, 1999 <b>Professor</b> : July 09, 1999 to continued	
<b>Administrative Profile</b>	<ul style="list-style-type: none"> <li>➤ <b>Nominee of H. E. the Governor of Rajasthan (Chancellor, University of Kota) as the External Member of the Academic Council of University of Kota, Kota, Rajasthan (23.06.2005 to 22.06.2009).</b></li> <li>➤ <b>Director, College Development Council of Devi Ahilya University, Indore and by virtue of being D, CDC, worked as a Convener of various Affiliation as well as Selection Committees.</b></li> <li>➤ <b>Dean, Faculty of Sciences &amp; Member of Executive Council, Devi Ahilya University, Indore.</b></li> <li>➤ <b>Coordinator, central valuation centre and member of Unfair Means Committee, University examinations, Devi Ahilya University, Indore.</b></li> <li>➤ <b>Member of National Assessment and Accreditation Council (NAAC)</b></li> </ul> <p style="margin-left: 40px;">a) <b>Vidya Bharti Mahavidyalaya, Amravati (Maharashtra). Date: 4-6 Oct 2012</b></p>	

	<p>b) Vedavathi First Grade College, Hiriya, Chitradurga (Karnataka). Date: 28 Feb to 2 March 2013</p> <p>c) Co-ordinator member of NAAC, Sabang Sajanikanta Mahavidyalaya, Madinipur, (West Bengal). Date: 12-14 Dec 2013.</p> <p>d) Member of NAAC, Milagres College, Udupi, Karnataka. Date 5th - 7th October 2015.</p> <p>e) Co-ordinator member of NAAC Team, Lingaya's University Fairidabad, Haryana. Date: 2th – 5th November 2015.</p> <p>f) Co-ordinator member of NAAC Team, Yuvaraja's College, University of Mysore, Mysuru from 21th – 23th Dec. 2015.</p> <p>g) Member of NAAC Team, Panjabi University, Patiala, from 20–23rd January, 2016.</p> <p>h) Co-ordinator member of NAAC Team, Barama college, Nalabari, Assam, 7<sup>th</sup>-9<sup>th</sup> Sept. 2016.</p> <p>i) Co-ordinator member of NAAC Team, Bhima Bhoi college, Rairakhol Dist: Sambalpur, Odisha 3<sup>rd</sup>-5<sup>th</sup> Nov. 2016.</p> <p>➤ Elected Zonal Secretary (2008-2011) and Vice President (2011-2014) of Central Zone of Indian Council of Chemists.</p> <p>➤ Sectional President of Inorganic Chemistry Section at the 31<sup>st</sup> annual conferences of Indian Council of Chemists held at Department of Chemistry, Saurashtra University, Rajkot During 26 – 28 December, 2012.</p> <p>➤ As an active member of the committee constituted for the Central University of Rajasthan to frame the Syllabus of M.Sc. Chemistry.</p> <p>➤ Honored by H. E. Governor of Madhya Pradesh Shri Ramnaresh Ji Yadav for state level educationist by World Brahmin Association Indore Service Trust.</p> <p>➤ Referee of reputed international and national research journals.</p>
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	<ul style="list-style-type: none"> <li>➤ <b>Coordinator</b> for the organization of two <b>Refresher Courses</b> each of three weeks in Inorganic Chemistry for the College and university Teachers. <b>(a) During 15-02-1993 to 06-03-1993</b> <b>(b) During 11-07-1994 to 30-07-1994</b></li> <li>➤ Member of Editorial Board of “Asian Journal of Chemical and Environmental Research”.</li> <li>➤ Member of Science Faculty and Member of Board of Studies in Chemistry, DAVV, Indore.</li> <li>➤ My brief biodata appeared in the: <b>(a) 15<sup>th</sup> edition of “Who’s Who in the World”.</b> <b>(b) “Asian/American Who’s Who” Vol. - fourth, page-102.</b></li> <li>➤ <b>Subject Expert Member of the Selection Committee of</b> <b>(a)</b> Promotion of Senior Technician (1992) and Scientists (2006), (2007) and (2014) at RRL, Bhopal. <b>(b)</b> A Senior Lecturer at Vikram University, Ujjain (2002) <b>(c)</b> Referee for promotion of Reader to Professor (CAS) at Vikram University., Ujjain <b>(d)</b> Lecturers &amp; promotion of Readers to Professors (CAS) at <b>H S Gour University, Sagar 2007</b> <b>(e)</b> Lecturer senior scale, Reader &amp; Professor in CAS in Chemistry at <b>BHU, Varanasi 2009 and 2011.</b> <b>(f)</b> Selection Committee member of a lecturer in Chemistry at <b>Uttarakhand Open University, Haldwani (Nainital), Uttarakhand, Nov. 2015.</b></li> </ul>
<b>Awards/Fellowships/Recognition</b>	<ul style="list-style-type: none"> <li>➤ “Mixed Sulfur Donor Ligand Complexes of Antimony(III): Synthesis, Structural investigation, Characterization, Power XRD, FAB<sup>+</sup> Mass, Supramolecular association, Single Crystal X-ray, Thermal ( TGA, DTA, DSC) and Antimicrobial Activities” <b>Awarded Prof. S.T. Nandibewoor Award in 36<sup>th</sup> Annual conference of Indian Council of Chemists held at School of Chemistry, Andhra University, Visakhapatnam during 26<sup>th</sup>-28<sup>th</sup> December 2017.</b></li> </ul>

	<ul style="list-style-type: none"> <li>➤ Synthesis, Spectroscopic Characterization, Powder XRD, Single Crystal X – ray, Thermal and Antimicrobial studies of Group 15 Elements [Arsenic(III), Antimony(III) and Bismuth(III)] Complexes with Sulphur Ligands <b>H.P.S.Chauhan, T.N. Srivastava Memorial Lecture [IIL – 01] and chaired one session</b> Indian Council of Chemists, 2010, Chandigarh</li> <li>➤ Recent Trends On Spectroscopic Techniques, Presented Keynote Lecture at two days National Conference on “Recent Trends on Spectroscopic Techniques” (RTST - 2017) held on 17<sup>th</sup> -18<sup>th</sup> November, 2017 at Department of Basic Science, Dr. A. P. J. Abdul Kalam University, Indore (M.P.)</li> <li>➤ As(III), Sb(III) and Bi(III) complexes with Mixed Sulfur Ligands <b>H.P.S.Chauhan,</b> <b>Keynote Speaker, Advance Techniques &amp; Researches in Mechanical Engineering &amp; Engineering Chemistry 2013,</b> Rishiraj Institute of Technology, Indore</li> </ul>
<b>Research Area</b>	<ul style="list-style-type: none"> <li>➤ Synthetic Inorganic and Organometallic Chemistry</li> <li>➤ Main Group Metal Chemistry</li> <li>➤ Coordination Chemistry</li> <li>➤ Environmental Chemistry</li> <li>➤ Bioinorganic Chemistry</li> </ul>
<b>Research Guidance</b>	<div style="text-align: right;"><b>Annexure I</b></div> <div> <i>M.Phil.</i> : 08  <i>Ph.D. Awarded</i> : 12  <i>Ph.D. Registered</i> : 03 </div>
<b>Projects</b>	<div style="text-align: right;"><b>Annexure II</b></div> <div> C.S.I.R. : 01  U.G.C. : 04  MPCST : 02 </div>
<b>Membership of Societies</b>	<p>(A) Life Member of Indian Science Congress Association (L-3706; Card No. 3547)</p> <p>(B) Life Member of Indian Chemical Society (No. F/4854 LM)</p>



	<p>(C) <b>Life Member of Indian Council of Chemists (No. LF 150)</b></p> <p>(D) <b>Life Member of Vigyan Parishad – Allahabad (No.167)</b></p> <p>(E) <b>Member of New York Academy of Sciences</b></p> <p>(F) <b>Life Member of International Disordered Systems Associates Society (56/1993/U-I/MDS/INDIA)</b></p>
<p><b>Significant Activities</b> (Invited Talks/ Resource Person/Sessions Chaired/ students achievements etc)</p>	<p>(A) <b>In Conferences</b> <b>:- 75</b></p> <ul style="list-style-type: none"> <li>• International Conferences <b>:- 07</b></li> <li>• National Symposiums and Conferences <b>:- 68</b></li> </ul>
<p><b>Research Publications</b></p>	<p style="text-align: right;"><b>Annexure III</b></p> <ul style="list-style-type: none"> <li>• <i>In Research Journals</i> : <b>75</b></li> <li>• <i>National</i> : <b>13</b></li> <li>• <i>International</i> : <b>62</b></li> <li>• <i>Conferences/ Seminars/ Workshops</i> : As above</li> </ul>

## Annexure I

### (A) M.Phil. STUDENTS

S. No	Year	Name of student	Title of the Thesis
<b>(a) AT VIKRAM UNIVERSITY, UJJAIN</b>			
1.	1987	Ms. Neeta Agrawal	Organotin(IV) Phthalanilates
2.	1988	Mr. B. K. Tejankar	Organotin(IV) Derivatives of Maleanilic Acids
3.	1989	Mr. Amitoj Bhargava	Studies on O-Hydroxyacetophenone Glycene Complexes of Organotin(IV) Moieties
4.	1990	Ms. A. Choudhary	Antimony(III) Derivatives of Phthalanilic Acids
5.	1990	Ms. Daljeet Kaur	Antimony(III) Derivatives of Maleanilic Acids
<b>(b) AT DEVI AHILYA UNIVERSITY, INDORE</b>			
6.	1992	Ms. Sunita Lunkad	Mixed Dithiolate Dialkyldithiophosphate Derivatives of Antimony(III)
7.	1992	Ms. Manisha Barve	Tetraphenylstibonium Dialkyldithiophosphates
8.	1993	Ms. Aradhana Das	Synthesis and Characterization of Dithiolato Alkylene Dithiophosphate Derivatives of Antimony(III)

**(B) RESEARCH SUPERVISION: (a). Ph.D. Students**

S. No	Year	Name of Student	Title of the Thesis
1	1998	Dr. Sarita Chourasia	Derivatives of some Main Group V Elements with S, O and N Donor Ligands
2	2000	Dr. Beena Porwal	Synthesis, Reactions and Structural Investigations on Sulphur and Nitrogen Bonded Organic Derivatives of some Main Group Elements
3	2001	Dr. Rajiv Kumar	Studies on the Synthetic and Structural Aspects of Organic Derivatives of Bismuth and Other Group 15 Elements
4	2004	Dr. Reena Dwivedi	Vapour Phase Alkylation of some Aromatic compounds in Fixed Bed Reactor
5	2004	Dr. Dipankar Nanda	Separation and Purification of Metal Ions Through Liquid Membrane (LM)
6	2005	Dr. Nagulu Meera Shaik	Studies on Some Group 14 (Sn) and Group 15 (Bi) Metal Derivatives with some Mixed Sulphur Ligands
7	2006	Dr. Kavita Kori	Studies on the Synthetic and Structural Aspects of some Mixed Sulphur Ligand Complexes of Arsenic(III)
8	2007	Dr. Udai Pratap Singh	Studies on the Synthetic and Structural aspects of some Arsenic (III) and Antimony (III) Derivatives of Sulphur Donor Organic Ligands
9	2012	Dr. Sumit Bhatiya	Synthetic, Spectroscopic and Thermal Studies on Arsenic(III) and Antimony(III) Complexes with some Mixed Sulphur and/or Oxygen Donor Ligands
10	2013	Dr. Abhilasha Bakshi	Studies on some Group 14 (Tin) and Group 15 (Antimony and Bismuth) Metal Derivatives with some Mixed Sulphur and/or Oxygen Donor Ligand
11	2015	Dr. Jaswant Carpenter	Antimony(III) Derivatives with some Mixed Sulphur and/or Oxygen Donor Ligands
12	2016	Dr. Sapana Joshi	Antimony(III) and Bismuth(III) Metal Derivatives with Mixed Sulfur Donor Ligands: Synthetic, Structural, Thermal and X-Ray Diffraction Studies

**(C) RESEARCH SUPERVISION: (b) Ph.D. Registered Students**

S. No	Year	Name of Student	Title of the Thesis
1	2016	Mr. Nitin Kumar Carpenter	Studies on Arsenic(III) and Antimony(III) Derivatives with Some Mixed Sulfur and/or Oxygen Donor Ligands
2	2017	Ms. Monika Yadav	Synthesis, Structural and Biochemical aspects of some derivatives of Antimony(III) and Bismuth(III) with mixed Sulfur and/or Oxygen donor ligands
3	2017	Mr. Navdeep Sharma	Synthesis, Structural Investigation and Biochemical Characterization of Group XIV [Sn(IV)] and Group XV [As(III)] derivatives with some mixed Sulfur and/or Oxygen donor ligands

**Annexure II**

**1. RESEARCH PROJECTS:**

Funding Agency	Duration	Title of the Research Project
U.G.C. New Delhi	Dec. 1990 to June 1992	Metal and Organometal Derivatives of Sulphur Ligands.
C.S.I.R. New Delhi	01-09-1990 to 31-08-1994	Synthetic and Structural Aspects of some Organoarsenic, -Antimony and -Bismuth Derivatives with Sulphur Ligands
M.P.C.S.T. Bhopal	12-11-1993 to 30-06-1997	Synthesis, Reactions and Structural Investigations on some Main Group IV and V Metal and Organometal Derivatives with Biologically Important S, N and O Ligands
U.G.C. New Delhi	12-06-2001 to 11-06-2004	Studies on the Synthetic, Structural and Biochemical Aspects of some Group 14 and 15 Metal and Organometal Derivatives with Biologically Important and Structurally Interesting S and/or O Ligands.
U.G.C. New Delhi	17-08-2006 to 16-08-2009	Synthetic, Spectroscopic, Thermal and Biochemical Studies on some Group 14 (Si, Ge and Sn) and Group 15 (As, Sb and Bi) Metal and Organometallic Complexes with some Sulphur and/or Oxygen Donor Organic Ligands.

U.G.C. New Delhi	01-04-2011 to 31-03-2014	Group 15 metal and organometallic derivatives with mixed sulphur and/or oxygen donor ligands: "synthesis and characterization: thermal and biochemical studies"
M.P.C.S.T. Bhopal	12-11-2012 to 11-11-2014	Studies on the Synthesis and Characterization of some Group 15 Metal nano complexes with Sulphur Donor ligands.

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### Annexure III

#### (A). IN RESEARCH JOURNALS

1. Synthesis and Characterization of Dialkyldithiophosphate Derivatives of Arsenic(III)  
**H.P.S. Chauhan**, G. Srivastava and R.C. Mehrotra  
**MARCEL DEKKER, *Synth. React. Inorg. Met.-Org. Chem.*, 11, 565-575 (1981)**  
**Impact Factor: 0.50**
2. Synthesis and Characterization of Tetraphenylphosphonium and -Arsonium Dialkyldithiophosphates.  
**H.P.S. Chauhan**, G. Srivastava and R.C. Mehrotra  
**MARCEL DEKKER, *Synth. React. Inorg. Met.-Org. Chem.*, 12, 593- 600 (1982)**  
**Impact Factor: 0.50**
3. Synthesis and Characterization of 2-Mercapto-2-thiono-1,3,2-Dioxaphospholanes and Dioxaphosphorinanes.  
**H.P.S. Chauhan**, C.P. Bhasin, G. Srivastava and R.C. Mehrotra  
**GORDON AND BREACH, *Phosphorus and Sulfur*, 15, 99-104 (1983)**  
**Impact Factor: 0.716**
4. Synthesis and Reactions of Mixed Halide Dialkyldithiophosphate Derivatives of Bismuth(III).  
**H.P.S. Chauhan**, G. Srivastava, and R.C. Mehrotra  
**GORDON AND BREACH, *Phosphorus and Sulfur*, 17, 161-167 (1983)**  
**Impact Factor: 0.716**
5. Mixed Halide Dialkyldithiophosphate Derivatives of Arsenic(III) and Antimony(III).  
**H.P.S. Chauhan**, G. Srivastava and R.C. Mehrotra  
**PERGAMON PRESS, *Polyhedron*, 2, 359-364 (1983)**  
**Impact Factor: 2.057**
6. Alkylene Dithiophosphate Derivatives of Arsenic(III), Antimony(III) and Bismuth(III).  
**H.P.S. Chauhan**, G. Srivastava and R.C. Mehrotra  
**PERGAMON PRESS, *Polyhedron*, 3, 1337-1345 (1984)**  
**Impact Factor: 2.057**

7. Adducts of Arsenic (III), Antimony (III) and Bismuth (III) Trichlorides with Benzothiazolines.  
**H.P.S. Chauhan**, G. Srivastava and R.C. Mehrotra  
*Indian J. Chem.*, **23A**, 436-437 (1984)  
**Impact Factor: 0.92**
  
8. Synthesis of Gem-9,9-dilithiofluorene by Thermal Rearrangement.  
**H.P.S. Chauhan**, H. Kawa and R.J. Lagow  
**AMERICAN CHEMICAL SOCIETY, J. Organic Chemistry**, **51**, 1632-1633 (1986)  
**Impact Factor: 4.79**
  
9. Chemistry of Dialkyldithiophosphate and Alkylene Dithiophosphate Derivatives of Arsenic, Antimony and Bismuth.  
**H.P.S. Chauhan** : *Rasayan Samiksha*, 1-14 (1989).
  
10. Crystal and Molecular Structure of Bismuth(III) *tris*(2,2-diethyltri- Methylene Dithiophosphate)  $\text{Bi}[\text{SP}(\text{S})\text{OCH}_2\text{C}(\text{Et})_2\text{CH}_2\text{O}]_3$ .  
 R. Bohra, **H.P.S. Chauhan**, G. Srivastava and R.C. Mehrotra  
**GORDON AND BREACH, Phosphorus, Sulfur and Silicon**, **60**, 167- 174 (1991)  
**Impact Factor: 0.716**
  
11. Organotin(IV) Derivatives of 3-Substituted 2-Mercaptoquinazol-4-one.  
 A.K. Gupta, S. Sharma, **H.P.S. Chauhan** and R.J. Rao  
**MARCEL DEKKER, Synth. React. Inorg. Met.-Org. Chem.**, **21**, 497- 512 (1991)  
**Impact Factor: 0.50**
  
12. Synthesis and Characterization of some Di- and Triorganotin(IV) Derivatives of Maleanilic Acids. B.K. Tejankar, R.J. Rao and **H.P.S. Chauhan**  
**MARCEL DEKKER, Synth. React. Inorg. Met.-Org. Chem.**, **21**, 1179-1191(1991)  
**Impact Factor: 0.50**
  
13. Triorganotin(IV) Derivatives of  $\beta$  -Ketomine-N-Acetic Acids.  
 L.V. Shastry, S. Sharma, **H.P.S. Chauhan** and R.J. Rao  
**FREUND PUBLICAT., Main Group Metal Chemistry**, **14**, 319-328 (1991)  
**Impact Factor: 0.714**
  
14. Organotin (IV) Derivatives of o-Hydroxyacetophenone glycine.  
**H.P.S. Chauhan**, A. Bhargava and R.J. Rao  
*Indian J. Chem.*, **32A**, 157-160 (1993)  
**Impact Factor: 0.92**

15. Organotin(IV) Derivatives of Phthalanilic Acids.  
**H.P.S. Chauhan**, S. Chourasia, N. Agrawal and R.J. Rao  
**MARCEL DEKKER, *Synth. React. Inorg. Met.-Org. Chem.*, 24, 325-338 (1994)**  
**Impact Factor: 0.50**
16. Diorganotin(IV) Derivatives of  $\beta$ -Ketomine-N-Acetic Acids.  
R.J. Rao, R. Soneja, L.V. Shastry, S. Sharma and **H.P.S. Chauhan**  
**MARCEL DEKKER, *Synth. React. Inorg. Met.-Org. Chem.*, 24, 995-1012 (1994)**  
**Impact Factor: 0.50**
17. Synthesis and Structural Aspects of Mixed Dithiolate Dialkyldithiophosphate Derivatives of Antimony(III).  
**H.P.S. Chauhan** and Sunita Lunkad  
**FREUND PUBLICATIONS, *Main Group Metal Chemistry*, 17, 313-318 (1994)**  
**Impact Factor: 0.714**
18. Tin(IV) Derivatives of 3-Substituted 2-Mercaptoquinazol-4-ones.  
R.J. Rao, H. Wankade and **H.P.S. Chauhan**  
**Nat. Acad. Sci. Letters, 17, 185-187 (1994)** **Impact Factor: 0.345**
19. Synthesis and Characterization of Mixed Dithiolate Alkyldithiocarbonate Derivatives of Antimony(III)  
**H.P.S. Chauhan** and S. Chourasia  
**Indian J. Chem., 34A, 664-665 (1995)**  
**Impact Factor: 0.92**
20. Synthesis and Characterization of Some Antimony (III) Derivatives of Phthalanilic and Maleanilic Acids  
S. Chourasia and **H.P.S. Chauhan**  
**Indian J. Chem., 35A, 903-905 (1996)**  
**Impact Factor: 0.92**
21. Synthesis and Characterization of some Dithiolatoantimony(III) Dialkyldithiocarbamates.  
S. Chourasia, B. Nahar and **H.P.S. Chauhan**  
**GORDON AND BREACH, *Phosphorus Sulfur and Silicon*, 119, 77-85 (1996)**  
**Impact Factor: 0.716**
22. Antimony(III) Derivatives with 1,1-Dithiolato Ligands and their Complexes with Triethylamine.  
**H.P.S. Chauhan** and B. Nahar  
**GORDON AND BREACH, *Phosphorus, Sulfur and Silicon*, 128, 119-127 (1997)**  
**Impact Factor: 0.716**

23. Synthesis and Characterisation of Antimony (III) Bis(diisopropyldithiophosphate) alkylxanthates.  
B. Nahar, S. Chourasia , **H.P.S.Chauhan** , R.J. Rao and M.S. Singh  
***J. Indian Chem. Soc.*, 74, 711-712 (1997)**  
**Impact Factor: 0.359**
  
24. Chemistry of Dialkyldithiophosphate (and Phosphinate) Derivatives of Arsenic, Antimony and Bismuth.  
**H.P.S. Chauhan**  
**ELSEVIER, *Coordination Chemistry Reviews*, 173, 1-30 (1998)**  
**Impact Factor: 14.499**
  
25. Synthesis and Spectroscopic Studies of Mixed N-(salicylidene)-o-Mercaptoaniline Dialkyldithiophosphato Derivatives of Antimony(III).  
M.S. Singh, K. Prasad Rao and **H.P.S. Chauhan**  
**GORDON AND BREACH, *Phosphorus, Sulfur and Silicon*, 134/135, 87-97 (1998)**  
**Impact Factor: 0.716**
  
26. Synthesis and Characterization of Mixed Dithiolatoarsenic(III) Alkyldithiocarbonates and Dialkyldithiocarbamates.  
**H.P.S. Chauhan**, S. Chourasia, B. Nahar and R.K. Singh  
**GORDON AND BREACH, *Phosphorus, Sulfur and Silicon*, 134/135, 345-353 (1998)**  
**Impact Factor: 0.716**
  
27. Mixed *Bis*(dialkyldithiocarbamate) Dialkyldithiophosphate Complexes of Antimony(III)  
**H.P.S. Chauhan**, B. Nahar and R.K. Singh  
**MARCEL DEKKER, *Synth. React. Inorg. Met.-Org. Chem.*, 28, 1541-1549(1998)**  
**Impact Factor: 0.50**
  
28. Synthesis and Characterization of Dithiolatoantimony(III) Diorganodithiophosphates.  
**H.P.S. Chauhan** and B. Nahar  
***Advances in Metallo-Organic Chemistry*, 324-330 (1999)**
  
29. Synthesis and Characterization of Toluene-3, 4-dithiolatoantimony(III) Diorganodithiophosphates.  
**H.P.S. Chauhan**, Beena Porwal and R.K. Singh  
***Indian J. Chem.*, 39A, 880-882 (2000)**  
**Impact Factor: 0.92**
  
30. Synthesis and Characterization of Bismuth(III) *Bis*(dialkyldithiophosphate) Alkyldithiocarbonates  
**H.P.S. Chauhan** and R.K. Singh  
**MARCEL DEKKER, *Synth. React. Inorg. Met.-Org. Chem.*, 30, 1211-1219 (2000)**  
**Impact Factor: 0.50**



31. Mixed Dithiolato Alkylene Dithiophosphate Derivatives of Arsenic(III) and Antimony(III)  
**H.P.S. Chauhan**, Beena Porwal and R.K.Singh  
**GORDON AND BREACH, *Phosphorus, Sulfur and Silicon*, 160, 93-103 (2000).**  
**Impact Factor: 0.716**
  
32. Studies on the Synthetic and Structural Aspects of Bismuth(III) *Bis* (dialkyldithiophosphate) Dialkyldithiocarbamates and Complexes of Chlorobismuth(III) *Bis*(dialkyldithiophosphate) with Triylamine  
**H.P.S. Chauhan**, R.K. Singh and Kavita Kori  
**FREUND PUBLICATION, *Main Group Metal Chemistry*, 25, 511-516 (2002)**  
**Impact Factor: 0.714**
  
33. Synthetic and Structural Aspects of some Toluene-3,4- dithiolatoarsenic(III) Derivatives of Alkyldithiocarbonates  
**H.P.S. Chauhan**, Kavita Kori and Nagulu Meera Shaik  
**FREUND PUBLICATION, *Main Group Metal Chemistry*, 25, 659–662 (2002)**  
**Impact Factor: 0.714**
  
34. Selective and Uphill Transport of Uranyl ions in the Presence of some Base Metals and Thorium across Bulk Liquid Membrane by Di(2- ethylhexyl) Phosphoric Acid  
D. Nanda, M.S. Oak, B. Maiti, **H.P.S. Chauhan** and P.K. Dutta  
**MARCEL DEKKER, *Separation Science and Technology*, 37, 3357–3367 (2002)**  
**Impact Factor: 1.03**
  
35. Synthesis and Characterization of some Phthalanilic and Maleanilic Acid Derivatives of Arsenic(III)  
**H.P.S. Chauhan**, R.K. Singh and Kavita Kori  
***Indian J. Chem.*, 41A, 1639-1642(2002)**  
**Impact Factor: 0.92**
  
36. Mixed Sulphur (1,1- and 1,2-dithiolato) Ligand Complexes of Group 15 Elements  
**H.P.S. Chauhan**  
***The Chemistry and Applications of Alkoxy, Aryloxy and Allied Derivatives of Elements*, 339-350 (2002)**
  
37. Synthesis and Characterization of Toluene-3, 4-dithiolatoarsenic(III) Derivatives of Dialkyldithiophosphate  
**H.P.S. Chauhan** and Kavita Kori  
**TAYLOR & FRANCIS, *Phosphorus, Sulphur and Silicon*, 178, 1815-1823 (2003)**  
**Impact Factor: 0.716**
  
38. Synthesis and Spectroscopic Studies of some mixed Toluene-3,4-dithiolato-bismuth(III) Derivatives with O,O'-Dialkyldithiophosphates  
**H.P.S. Chauhan**, Nagulu Meera Shaik and Kavita Kori  
**FREUND PUBLICATION, *Main Group Metal Chemistry*, 26, 213-220 (2003).**  
**Impact Factor: 0.714**

39. Synthesis and Characterization of some Toluene-3,4-dithiolatobismuth(III) Alkyl Dithiocarbonates  
**H.P.S. Chauhan**, Nagulu Meera Shaik and Kavita Kori  
**MARCEL DEKKER, *Synth. React. Inorg. Met.-Org. Chem.*, 34, 323-333 (2004)**  
**Impact Factor: 0.50**
  
40. Alkylation of Aniline with Ethanol over  $Zn_{1-x} Mn_x Fe_2O_4$  (X = 0, 0.25, 0.50, 0.75 and 1.0) Ferrite System  
 R. Dwivedi, A. Radhe Shyam, R. Prasad and **H.P.S. Chauhan**  
***Indian J. Chem. Technol.*, 11, 254-259 (2004) Impact Factor: 0.60**
41. Complexes of *Bis*(Dialkyldithiocarbamato)Arsenic(III) with Alkyldithiocarbonates: Synthesis and Characterization  
**H.P.S. Chauhan**, Kavita Kori, N.M. Shaik and U.P. Singh  
**FREUND PUBLICATION, *Main Group Metal Chemistry*, 27, 11-19 (2004)**  
**Impact Factor: 0.714**
  
42. PVC Membrane based Potentiometric Sensor for Uranyl ion Using Thenoyl Trifluoro Acetone as Ionophore  
 D. Nanda, **H.P.S. Chauhan** and B. Maiti  
***Indian J. Chem.*, 43A, 1685-1688 (2004)**  
**Impact Factor: 0.92**
  
43. Transport of Uranyl ion ( $UO_2^{2+}$ ) across Bulk Liquid Membrane by Thenoyl Trifluoro Acetone (TTA)  
 D. Nanda, **H.P.S. Chauhan** and B. Maiti  
***Indian J. Chem. Technol.*, 11, 643-647 (2004)**  
**Impact Factor: 0.60**
  
44. Synthetic, Spectral. Thermal and Antimicrobial Studies on some Mixed 1,3-Dithia-2-stannacyclopentane Derivatives with Dialkyldithiocarbamates  
**H.P.S. Chauhan** and N.M. Shaik  
**ELSEVIER, *Journal of Inorg. Biochem.* 99, 538-545 (2005)**  
**Impact Factor: 3.205**  
**(Following this paper top 20 articles are published on the same topic after we have published)**
  
45. Dialkyldithiocarbamate Derivatives of Toluene-3,4-dithiolato Arsenic(III) and - Bismuth(III): Synthetic, Spectral and Single Crystal X-Ray Structural Studies.  
**H.P.S. Chauhan**, K. Kori, N.M. Shaik, S. Mathur and V. Huch  
**ELSEVIER, *Polyhedron*, 24, 89-95 (2005)**  
**Impact Factor: 2.108**
  
46. Synthetic and Spectroscopic Studies on some *Bis*(Dialkyldithiocarbamato)- Arsenic(III) O,O'-Dialkyldithiophosphates  
**H.P.S. Chauhan**, Kavita Kori, N.M. Shaik and U.P. Singh  
**TAYLOR & FRANCIS, *Phosphorus, Sulphur and Silicon*, 180, 31-40 (2005).**  
**Impact Factor: 0.723**

47. Synthetic, Spectroscopic and Antimicrobial Studies of *Bis*(dialkyldithiocarbamato)dialkyldithiophosphatobismuth(III) Complexes  
**H.P.S. Chauhan**, N.M. Shaik and U.P. Singh  
**WILEY-INTERSCIENCE**, *Applied Organometallic Chemistry*, **19**, 1132-1139 (2005).  
**Impact Factor: 3.6**
48. Synthesis, Spectroscopic Characterization and *in vitro* Studies of Antimicrobial Activity of *Bis*(diorganodithiocarbamato)organodithiocarbonatobismuth(III) Complexes  
**H.P.S. Chauhan**, N.M. Shaik and U.P. Singh  
**WILEY-INTERSCIENCE**, *Applied Organometallic Chemistry*, **20**, 142-148 (2006).  
**Impact Factor: 3.6**
49. Synthetic, Spectral, Thermal and Antimicrobial Studies of *Bis*(N,N-dialkyldithiocarbamato) arsenic(III) and Antimony(III) Complexes with Diphenyldithiophosphate and Diphenyldithiophosphinate.  
**H. P. S. Chauhan** and U. P. Singh  
**WILEY-INTERSCIENCE**, *Applied Organometallic Chemistry*, **20**, 404-410 (2006)  
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50. Synthetic, Spectroscopic, X-ray Structural and Antimicrobial Studies of 1,3-Dithia-2-stibacyclopentane Derivatives of Phosphorus Based Dithiolato Ligands.  
**H. P. S. Chauhan**, U. P. Singh, N. M. Shaik, S. Mathur, V. Huch.  
**ELSEVIER**, *Polyhedron*, **25**, 2841-2847 (2006)  
**Impact Factor: 2.108**
51. Synthetic and Spectral Characterization as well as *In Vitro* Antimicrobial Activity of *Bis*(N,N'-dialkyldithiocarbamato) Arsenic(III) Alkylenedithiophosphates.  
**H. P. S. Chauhan**, U. P. Singh and N. M. Shaik  
**FREUND PUBLICAT.**, *Main Group Metal Chemistry*, **29**, 221-231(2006)  
**Impact Factor: 0.714**
52. Synthesis and Spectroscopic [IR, SOID-STATE NMR ( $^1\text{H}$ ,  $^{13}\text{C}$  &  $^{31}\text{P}$ )] Studies of 1,3-Dithia-2-stannacyclopentane Diorganodithiophosphates  
**H.P.S. Chauhan**, N.M. Shaik, U.P. Singh, S. Mathur and M.Zimmer  
**FREUND PUBLICAT.**, *Main Group Metal Chemistry*, **30**, 269-278 (2007)  
**Impact Factor: 0.714**
53. Synthetic, Spectral, Thermal and Antimicrobial Studies on some *Bis*(N, N'-dialkyldithiocarbamato)antimony(III) Alkylenedithiophosphates.  
**H. P. S. Chauhan** and U. P. Singh  
**WILEY-INTERSCIENCE**, *Applied Organometallic Chemistry*, **21**, 880-889 (2007)  
**Impact Factor: 3.6**

54. Synthesis and Spectroscopic Characterization as well as Antimicrobial Studies of 1,3-Dithia-2- Arsacyclopentane Derivatives of Phosphorus Based 1,1-Dithiolato Ligands.  
**H. P. S. Chauhan**, U. P. Singh, N. M. Shaik and S. Bhatiya  
**FREUND PUBLICATIONS, *Main Group Metal Chemistry*, 30, 279-288 (2007)**  
**Impact Factor: 0.714**
55. Detection and Identification of Metals and Organics in Dairy Waste Water by ICP-AES and Gas Chromatograph and Mass Spectrometry.  
 B.S. Bhadane, V.S. Shrivastava and H.P.S. Chauhan  
***Indian J. Environmental Protection*, 28, 985-991 (2008)**
56. Synthesis and characterization of toluene-3,4-dithiolatoantimony(III) derivatives with some oxygen and/or sulphur donor ligands  
**H. P. S. Chauhan**, Sumit Bhatiya and Abhilasha Bakshi  
**ELSEVIER, *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, 74, 67-73 (2009)**  
**Impact Factor: 2.9**  
 (Following this paper top 40 articles are published on the same topic after we have published)
57. Synthetic, spectral as well as in vitro antimicrobial studies on some *bis*(N,N-dialkyldithiocarbamato)bismuth(III) alkylenedithiophosphates  
**H. P. S. Chauhan**, Abhilasha Bakshi and Sumit Bhatiya  
**WILEY-INTERSCIENCE, *Applied Organometallic Chemistry*, 24, 317-325 (2010)**  
**Impact Factor: 3.6**
58. Bismuth(III) *bis*(N,N-diethyldithiocarbamato)alkylenedithiophosphates: FAB+ mass, Thermal decomposition and SEM studies  
**H. P. S. Chauhan**, Abhilasha Bakshi and Sumit Bhatiya  
**TAYLOR & FRANCIS, *Phosphorus, Sulphur and Silicon*, 186, 345-353 (2011)**  
**Impact Factor: 0.723**
59. Synthesis, spectroscopic structural characterization and antimicrobial Studies of 1,3-Dithia-2-arsacyclopentane Derivatives with Oxygen and Sulfur Donor Ligands  
**H. P. S. Chauhan**, Sumit Bhatiya, Abhilasha Bakshi and K. S. Makwana  
**TAYLOR & FRANCIS, *Phosphorus, Sulphur and Silicon*, 186, 511-519 (2011)**  
**Impact Factor: 0.723**
60. Synthetic, spectroscopic, thermal and structural studies of antimony(III) *bis*(pyrrolidinedithiocarbamato)alkyldithiocarbonates.  
**H. P. S. Chauhan** and Abhilasha Bakshi  
**SPRINGER, *Journal of Thermal Analysis and Calorimetry*, 105, 937-946 (2011)**  
**Impact Factor: 2.209**

61. Synthesis, spectroscopic characterization and antibacterial activity of antimony(III) *bis*(dialkyldithiocarbamato)alkyldithiocarbonates  
**H. P. S. Chauhan**, Abhilasha Bakshi and Sumit Bhatiya  
**ELSEVIER, *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, 81, 417-423 (2011)**  
**Impact Factor: 2.9**
  
62. Synthesis, spectroscopic, thermal and antimicrobial studies of toluene - 3,4-dithiolatoarsenic(III) derivatives with some oxygen and sulphur donor ligands  
**H. P. S. Chauhan** and Sumit Bhatiya  
**ELSEVIER, *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, 97, 1133-1139(2012)**  
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63. *Bis*(diethyldithiocarbamato)antimony(III) derivatives with oxygen and sulphur donor ligands: synthesis, ESI-mass and spectral characterization  
**H.P.S. Chauhan**, Jaswant Carpenter, Sumit Bhatiya and Abhilasha Bakshi  
**TAYLOR & FRANCIS, *Phosphorus, Sulphur and Silicon* 188, 1713–1722 (2013)**  
**Impact Factor: 0.723**
  
64. Supramolecular association via Sb•••S and C–H•••S interactions in dimeric *tris*(*N,N*-dimethyldithiocarbamato–*S,S'*)antimony(III): an approach to overcome the concept of steric bulk on such interactions  
**H.P.S. Chauhan** and Jaswant Carpenter  
**INTERNATIONAL UNION OF CRYSTALLOGRAPHY, *Acta Crystallographica Section B* B69, 613–620 (2013).**  
**Impact Factor: 6.467**
  
65. Synthesis, solid state NMR and powder X-ray diffraction studies on ethane-1,2-dithiolatobismuth(III) alkyldithiocarbonates  
**H.P.S. Chauhan**, Abhilasha Bakshi, Jaswant Carpenter and Sapana Joshi  
**TAYLOR & FRANCIS, *Phosphorus, Sulphur and Silicon*, 189, 1672 –1681(2014)**  
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66. Synthetic aspects, spectral, thermal studies and antimicrobial screening on *bis*(*N,N*-dimethyldithiocarbamato–*S,S'*)antimony(III) complexes with oxo or thio donor ligands  
**H. P. S. Chauhan**, Jaswant Carpenter and Sapana Joshi  
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**Impact Factor: 2.9**
  
67. Mixed *bis*(morpholine-4-dithiocarbamato-*S,S'*)antimony(III) complexes: synthesis, characterization, thermal analysis and biological studies  
**H. P. S. Chauhan**, Jaswant Carpenter and Sapana Joshi  
**WILEY-INTERSCIENCE, *Applied Organometallic Chemistry* 28, 605–613 (2014)**  
**Impact Factor: 3.6**

68. Nano ranged 1,3-dithia-2-stannacyclopentane(IV) alkylthiocarbonates: solid-state NMR, powder X-ray diffraction and thermal decomposition studies  
**H.P.S. Chauhan**, Abhilasha Bakshi, Sapana Joshi, Jaswant Carpenter  
**ELSEVIER, *Journal of Molecular Structure* 1083, 412–420 (2015)**  
**Impact Factor: 2.01**
  
69. Ethane-1,2-dithiolato bridged ( $\mu^2$ ) complexes of *bis*(*N,N*-diorganodithiocarbamato-*S,S'*)antimony(III): synthesis, characterization and thermal studies  
Jaswant Carpenter, Sapana Joshi, **H.P.S Chauhan**  
**SPRINGER, *Journal of Thermal Analysis and Calorimetry* 120, 1203–1215 (2015)**  
**Impact Factor: 2.209**
  
70. Synthetic, spectral, thermal and powder x-ray diffraction studies of *bis*(*O*-alkylthiocarbonato-*S,S'*) antimony(III)dialkylthiocarbamate complexes  
**H. P. S. Chauhan**, Sapana Joshi and Jaswant Carpenter  
**ELSEVIER, *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy* 136, 1626–1634 (2015)**  
**Impact Factor: 2.9**
  
71. Structural investigation on toluene-3,4-dithiolatoantimony(III) alkylthiocarbonate complexes thermal, powder XRD and biological studies  
**H.P.S. Chauhan**, Sapana Joshi, Abhilasha Bakshi and Jaswant Carpenter  
**ROYAL SOCIETY OF CHEMISTRY (RSC), *New Journal of Chemistry* 39, 2279-2288 (2015)**  
**Impact Factor: 3.227**
  
72. Synthesis, characterization and single crystal X-ray analysis of chlorobis(*N,N*-diethylthiocarbamato-*S,S'*)antimony(III)  
**H.P.S. Chauhan**, Jaswant Carpenter  
**ELSEVIER, *Journal of Saudi Chemical Society* 19, 417-422 (2015)**  
**Impact Factor: 2.456**
  
73. Mixed bismuth(III) complexes with sulfur donor ligands: studies on synthetic, structural, thermal and biological properties  
**H.P.S. Chauhan**, Sapana Joshi and Jaswant Carpenter  
**SPRINGER, *Journal of Thermal Analysis and Calorimetry* 124, 117–130 (2016)**  
**Impact Factor: 2.209**
  
74. Preparation and characterization of mixed metal (Sb and Bi) bridged derivatives with mixed sulfur donor ligands  
Sapana Joshi, **H.P.S. Chauhan\***, Nitin Carpenter  
**ELSEVIER, *Journal of Molecular Structure* DOI:10.1016/j.molstruc.2016.08.063 1128, 221–229 (2017)**  
**Impact Factor: 2.01**

75. Preparation, spectroscopic characterization, thermal, powder XRD and antimicrobial activities of mixed *bis*(O,O'-diisopropyldithiophosphato-S,S')antimony(III) derivatives with some oxygen and sulfur donor ligands  
Sumit Bhatiya<sup>a</sup>, **H. P. S. Chauhan**, Nitin Carpenter  
**WILEY-INTERSCIENCE, *Applied Organometallic Chemistry***  
**(2018);32:e4026.**  
**DOI: 10.1002/aoc.4026**  
**Impact Factor: 3.6**

**(B). IN CONFERENCES**

**a) LIST OF INVITED LECTURES AND PAPERS PRESENTED IN INTERNATIONAL CONFERENCES**

1. Alkylenedithiophosphate Derivatives of Arsenic (III), Antimony(III) and Bismuth(III).  
**H.P.S. Chauhan**, G. Srivastava and R.C. Mehrotra  
International Symposium on "New Vistas in Organometallic Chemistry" 1984 (Jaipur); Abstract No. P-6.
2. Synthesis and Characterization of Organotin(IV) Derivatives of Phalanilic Acid  
**H.P.S. Chauhan** and N. Agrawal  
First Indo-Soviet Symposium on Organometallic Chemistry, 1988 (Jaipur); Abstract No. PO-7.
3. The Chemistry of Main Group V Metal (As, Sb and Bi) and Organometal Derivatives with Diorganodithiophosphate Ligands  
**H.P.S. Chauhan.**  
**Invited Plenary Lecture Delivered in International Symposium on Metallo-organic Chemistry, 1994 (Jaipur); Abstract No. D-2.**
4. Synthesis and Characterization of Toluene-3,4-dithiolatoantimony(III) Diorganodithiophosphates.  
**H.P.S. Chauhan** and B. Nahar  
International Symposium on Metallo-Organic Chemistry at the Dawn of The Twenty first Century, 1998 (Jaipur); Abstract No. P-49.
5. Synthesis, Characterization and Reactions of some Bismuth(III) Complexes with Mixed 1,1-Dithiolato Ligands.  
**H.P. S. Chauhan**, R. K. Singh and K. Kori

**Invited Plenary Lecture Delivered in International Symposium on the Chemistry and Applications of Alkoxy, Aryloxy and Allied *Derivatives of Elements* (SIOC-2002), 2002 (Jaipur); Abstract No. OP-2.**

6. Synthetic, Spectral, Thermal and Biochemical Studies of some Antimony, Phosphorus and Sulphur Containing Heterocycles.  
**H.P.S. Chauhan** and U.P. Singh  
II International Conference on Heterocyclic Chemistry (2006) Jaipur; Abstract No. OP-20.
7. Mixed sulfur donor ligand complexes of antimony(III)  
**H.P.S. Chauhan**  
Oral presentation in III International Conference of ICC on “Chemistry for Sustainable Development: Indian Perspective” at Hotel Grand Excelsior (2014) Dubai; 11<sup>th</sup> to 13<sup>th</sup> June

**b) LIST OF INVITED LECTURES, PAPERS PRESENTED AND SESSIONS CHAIRED IN VARIOUS NATIONAL CONFERENCES**

1. Synthesis and Characterization of Dialkyldithiophosphate Derivatives of Arsenic(III).  
**H.P.S. Chauhan**, G. Srivastava and R.C. Mehrotra  
Indian Science Congress, 1981 (Varanasi); Abstract No. 93.
2. Synthesis and Characterization of Substituted Dialkyldithiophosphate Derivatives of Antimony(III).  
**H.P.S. Chauhan**, G. Srivastava and R.C. Mehrotra  
Seminar on ‘Recent Trends in Metal-Organic Chemistry’ 1981(Jaipur);  
Abstract No. S- 54.
3. Tetraphenyl – phosphonium and Arsonium Dialkyldithiophosphates  
**H.P.S. Chauhan**, G. Srivastava and R.C. Mehrotra.  
Convention of Chemists, 1981 (Madras) ; Abstract No. Inorg. – 79.
4. Studies on Synthetic and Structural Aspects of Dialkyldithiophosphate Derivatives of Arsenic(III) and Antimony(III).  
**H.P.S. Chauhan**, G. Srivastava and R.C. Mehrotra  
Indian Science Congress, 1982 (Mysore); Abstract No. Inorg - 65.



5. Dialkyldithiophosphoric Acids Derivatives from Glycols.  
**H.P.S.Chauhan**, G. Srivastava and R.C. Mehrotra  
National Symposium on 'Elemento – Organic Compounds in Chemical Synthesis',  
1982 (Jaipur); Abstract No. PO – 14.
6. Dialkyldithiophosphate Derivatives of Bismuth(III).  
**H.P.S.Chauhan**, G. Srivastava and R.C. Mehrotra  
Indian Council of Chemists, 1982 (Srinagar).
7. Tris as well as mixed Chloride Alkylenedithiophosphate Derivatives of Arsenic(III),  
Antimony(III) and Bismuth(III).  
**H.P.S.Chauhan**  
National Symposium "Recent Trends on Technological Applications of Coordination  
Compounds & Catalysis", 1986 (Gwalior); Abstract No. PP – 17.
8. Synthesis and Characterization of some Alkylenedithiophosphate Derivatives of  
Bismuth(III).  
Indian Council of Chemists, 1986 (Madurai) ; Abstract No. IO – 31.
9. Bismuth(III) Alkylenedithiophosphate.  
Convention of Chemists, 1986 (Annamalainagar); Abstract No. Inorg. – 73.
10. Organotin(IV) Phthalanilates.  
**H.P.S. Chauhan**, N. Agrawal, A.K. Gupta and R.J. Rao  
Indian Council of Chemists, 1987 (Gwalior); Abstract No. IO – 55.
11. Organotin(IV) Derivatives of 3-Phenylquinoxaline-2-Thio-4-one.  
R.J. Rao, A.K. Gupta, N. Agrawal and **H.P.S.Chauhan**  
Indian Council of Chemists, 1987 (Gwalior); Abstract No. IP – 20.
12. Synthesis and Characterization of some Di- and Tri-Organotin(IV) Derivatives of  
Maleanilic Acids.  
**H.P.S. Chauhan** and B.K. Tejankar  
Indian Council of Chemists, 1988 (Tirupati); Abstract No. IP – 44.

13. Organotin(IV) Derivatives of Anilic Acids.  
**H.P.S. Chauhan** and B.K. Tejankar  
Convention of Chemists, 1988 (Calcutta) Abstract No. Inorg. – 69.
14. Alkylenedithiophosphate Derivatives of Bismuth(III).  
Fourth M.P. Young Scientists Congress, 1989 (Rewa); Abstract No. Chem. – 2.
15. Synthesis and Characterization of Organotin(IV) Derivatives of O- Hydroxyacetophenone Glycine.  
Convention of Chemists, 1989 (Indore) Abstract No. Inorg. – 37.
16. Antimony(III) Derivatives of Maleanilic and Phthalanilic Acids.  
Indian Council of Chemists, 1990 (Gulbarga) ; Abstract No. IP – 25.
17. Synthesis and Characterization of some Di- and Tri-Organotin(IV) Derivatives of Maleanilic Acids.  
**H.P.S. Chauhan** and B.K. Tejankar  
Indian Science Congress, 1991 (Indore) ; Abstract No. 73.
18. Studies on Synthetic and Structural Aspects of Mixed Dithiolate Dialkyldithiophosphate Derivatives of Antimony(III) .  
Indian Science Congress, 1993 (Goa) ; Abstract No. 88.
19. Mixed Dithiolate Dialkyldithiophosphate Derivatives of Antimony(III) .  
Indian Council of Chemists, 1993 (Muzaffarpur) ; Abstract No. IO – 61
20. Organotin Derivatives of Phthalanilic Acid.  
Indian Science Congress, 1994 (Jaipur); Abstract No. Inorg - 62.
21. Synthesis and Characterization of Mixed Dithiolato Antimony(III) Alkyldithiocarbonates.  
**H.P.S. Chauhan** and S. Chourasia  
Indian Council of Chemists, 1994 (Jammu); Abstract No. IO – 17.

22. Mixed Dithiolato Alkylthiocarbonate and Dialkylthiocarbamate Derivatives of Antimony(III) : Synthesis and Characterization.

**H.P.S.Chauhan**, S. Chourasia and B. Nahar

Indian Science Congress, 1995 (Calcutta) ; Abstract No. - 58.

23. Synthesis and Characterization of some Mixed Dithiolate Dialkylthiocarbamate Derivatives of Antimony(III).

S. Chourasia, B. Nahar and **H.P.S. Chauhan**

Indian Science Congress, 1996 (Patiala) ; Abstract No. - 47.

24. Synthesis and Spectroscopic Studies of Mixed Sulphur and Nitrogen Ligand Complexes of Antimony(III).

Nahar and **H.P.S.Chauhan**

Indian Council of Chemists, 1996 (Aurangabad) ; Abstract No. IP- 44.

25. Synthesis and Characterization of Antimony(III) *Bis*(diisopropylthiophosphate) Alkylxanthates.

Indian Science Congress, 1997 (Delhi) ; Abstract No. - 75.

26. Mixed dithiolato Alkylene Dithiophosphates of Arsenic(III) and Antimony(III).

Indian Science Congress, 1998 (Hyderabad).

27. Synthesis and Characterization of Bismuth(III) *Bis*(dialkylthiophosphate) Alkylthiocarbonates.

**H.P.S.Chauhan** and R.K. Singh

Indian Council of Chemists, 1999 (Jalgaon) ; Abstract No. IO- 02.

28. Synthesis and Characterization of Bismuth(III) *Bis*(dialkylthiophosphate) dialkylthiocarbamates and Complexes of Chlorobismuth(III) *Bis*(dialkylthiophosphate) with triethylamine.

**H.P.S.Chauhan** and R.K. Singh

Convention of Chemists, 2000 (Hardwar); Abstract No. Inorg(OP)-14.

29. Studies on the Synthetic and Structural Aspects of Bismuth(III) *Bis*(dialkylthiophosphate) Dialkylthiocarbamates and Complexes of Chlorobismuth(III) *Bis*(dialkylthiophosphate) with Triethylamine.

Indian Science Congress, 2002 (Lucknow).

30. Synthesis and Characterization of some Toluene-3,4-dithiolatoarsenic(III) Alkyldithiocarbonates.  
**H.P.S.Chauhan**, K. Kori and N.M. Shaik  
 Indian Council of Chemists, 2002, Jabalpur , Abstract No. – IO-36.
  
31. Synthetic and Structural Aspects of some Toluene-3,4- dithiolatoarsenic(III) and Bismuth(III) Derivatives of Dithiocarbamates.  
**H.P.S.Chauhan**, K. Kori and N.M. Shaik  
 Indian Chemical Society, 2002, Nagarjuna Nagar, Abstract No. – ING (AP)-08.
  
32. Mixed Toluene-3, 4-dithiolatobismuth(III) derivatives of Alkyldithiocarbonates: Synthesis and Characterization.  
**H.P.S.Chauhan**, N.M. Shaik and K.Kori  
 Indian Science Congress, 2003, Banglore, Abstract No. 28.
  
33. Studies on the Synthetic and Structural Aspects of some Toluene-3,4-Dithiolatoarsenic(III) Derivatives with Sulphur Ligands.  
**H.P.S.Chauhan** and K.Kori  
**Invited plenary lecture delivered (OP-8) and chaired one session** in the National Seminar on Elemento-Organic Chemistry, 2003(Ujjain).
  
34. Synthesis and Characterization of some Toluene-3,4-dithiolatoarsenic(III) Derivatives with 1,1-dithiolato Ligands along with the Single Crystal X-ray Structural of a few Complexes.  
**H.P.S.Chauhan**, N.M. Shaik and K.Kori  
 Indian Council of Chemists, 2003, Roorkee, Abstract No. – IO-02.
  
35. Bis(Dialkyldithiocarbamato)arsenic(III) Dialkyldithiophosphates Complexes: Synthesis and Characterization  
**H.P.S.Chauhan**, K. Kori and N.M. Shaik  
 Indian Chemical Society, 2003, Jhansi, Abstract No.– ING(AP)-09.
  
36. Synthetic and Structural Aspects of some Mixed Sulphur (1,1-dithiolato and 1,2-dithiolato) Ligand Complexes of Group 15 Elements.  
**H.P.S.Chauhan;Invited plenary lecture delivered [ING (IL)- 10] and chaired one session** in the Convention of Chemists, 2004 (Delhi).

37. Toluene-3,4-dithiolatobismuth(III) Derivatives with Chalcogenide Ligands: Synthesis and Characterization.

**H.P.S.Chauhan**, N.M. Shaik and K.Kori

National Symposium on Current Trends in Inorganic Chemistry, MGC-3, 2004, (Kochi)

38. Synthetic, Structural and Antimicrobial Aspects of Group 15 Elements [Arsenic(III) Antimony(III) and Bismuth(III)] Complexes with Mixed Sulfur (1,1-dithiolato and 1,2-dithiolato) Organic Ligands.

**H.P.S.Chauhan;Invited plenary lecture delivered [IL-1]** in the national symposium on recent advances in chemical research (RACR-05), **Dedicated to Professor R. C. Mehrotra** (March 28, 2005) in Jaipur.

39. Synthetic, Spectroscopic, X-ray Structural and Antimicrobial Studies of 1,3-Dithia-2-stibacyclopentane Derivatives of Phosphorus Based Dithiolato Ligands.

**H.P.S.Chauhan** and U.P. Singh

Indian Chemical Society, 2006, Shantiniketan, Abstract No.–ING(AP)–2

40. Synthetic and Spectral Characterization as well as *in vitro* Antimicrobial Activity of *Bis*(N,N'-dialkyldithiocarbamato) Arsenic(III) Alkylenedithiophosphates

**H.P.S.Chauhan** and U.P. Singh

Indian Chemical Society, 2006, Shantiniketan, Abstract No.–ING (OP) – 16.

41. Synthetic, Spectral, Thermal and Antimicrobial Studies on some

*bis*(N,N'-dialkyldithiocarbamato)antimony(III) Alkylenedithiophosphates

**H.P.S.Chauhan** and U.P. Singh

National Seminar on Recent Advances in the Field of Applied Chemistry (RACC-06), Kota, Abstract No. O-13.

42. Synthesis and characterization of some group 14 (Sn) and some group 15 (Sb) metal derivatives with some mixed sulphur ligands: Convenient transformation of  $\overline{\text{SCH}_2\text{CH}_2\text{SSn}[\text{S}_2\text{CN}(\text{Et})_2]\text{Cl}}$  and  $\overline{\text{SCH}_2\text{CH}_2\text{SSn}[\text{S}_2\text{CN}(\text{Et})_2]_2}$ ,

$[\text{R}_2\text{NCS}_2]_2\text{SbS}_2\text{POCH}_2\text{CMe}_2\text{CH}_2\text{O}$  and  $\overline{\text{SCH}_2\text{CH}_2\text{SSn}[\text{S}_2\text{CN}(\text{Et})_2]_2}$ , (Where R=Me, Et) to pure metal oxides and sulfides.

**H.P.S.Chauhan** and Sumit Bhatia

National Seminar on Recent Trends in Surface Sciences-2007 (RTSS-07), Indore, Abstract No. OP-16.

43. Synthetic, spectroscopic and single crystal X-ray structural, thermal as well as antimicrobial studies on some group XV elements[Arsenic(III), Antimony(III) and Bismuth(III)] derivatives with mixed sulphur donor (1,1-dithiolato and 1,2- dithiolato) ligands

**H. P. S. Chauhan**

**Invited plenary lecture delivered [ING (IL)- 1] and chaired one session** Convention of Chemists, 2007 (Jaipur).

44. Studies on the Synthetic and Structural Aspects of some 1,3-Dithia-2-Stannacyclopentane Derivatives with Diorganodithiophosphate Ligands.

**H.P.S.Chauhan** and N.M. Shaik

Indian Council of Chemists, 2007, Sagar, Abstract No. – IO-37

45. Synthetic and Spectroscopic Studies on Some Bis(dialkyldithiocarbamato) bismuth(III) Alkylenedithiophosphates

**H.P.S.Chauhan**, Abhilasha Bakshi and Sumit Bhatiya

Indian Council of Chemists, 2008, Haridwar, Abstract No. – IO-29.

46. Synthesis and Characterization of Toluene-3,4-dithiolatoantimony(III) derivatives with some Oxygen and/or Sulphur Donor Ligands

**H.P.S.Chauhan**, Sumit Bhatiya and Abhilasha Bakshi

Indian Council of Chemists, 2008, Haridwar, Abstract No. – IO-31.

47. Group 15 Elements [Arsenic(III), Antimony(III) and Bismuth(III)] Complexes with Mixed Sulphur Donor Ligands.

**H.P.S.Chauhan, Invited plenary lecture delivered [IIL - 11]**

Indian Council of Chemists, 2009, Patan

48. Synthesis and spectroscopic characterization of antimony(III) *bis*(N,N-dialkyldithiocarbamato)organodithiocarbonates complexes

**H.P.S.Chauhan** and Abhilasha Bakshi

Indian Chemical Society, 2009, Vellore, Abstract No.–ING (OP) – 33.

49. Synthesis and spectroscopic characterization of antimony(III) *bis*(N,N-dialkyldithiocarbamato)organodithiocarbonates complexes

**H.P.S.Chauhan** and Abhilasha Bakshi

Bhartiya Vigyan Sammelan & Expo, 2009, Indore, Abstract No.–ING (PP) – 20.

- 50.** Synthesis, Spectroscopic Structural Characterization, Thermal and Antimicrobial Activity of Toluene-3,4-dithiolato-arsenic(III), -antimony(III) Derivatives with some Oxygen and/or Sulphur Donor Ligands

**H.P.S.Chauhan**, Sumit Bhatiya and Abhilasha Bakshi

National Seminar on “Recent Trends in Chemical Sciences”, 2010, Rewa, Abstract No.—RTCS(OP)—31.

- 51.** Synthetic, Spectral, Thermal and Antimicrobial Studies on Arsenic(III), Antimony(III) and Bismuth(III) Complexes With Sulphur Donor Ligands

**H.P.S.Chauhan, Invited plenary lecture delivered [IL]**

National Conference on New Trends of Metal Ions in drugs Design, 2010, Aligarh

- 52.** Synthesis, Spectroscopic Characterization, Thermal and Antimicrobial studies of 1,3-Dithia-2-stibacyclopentane Derivatives with Some Oxygen and Sulphur Donor Ligands

**H.P.S.Chauhan** and Sumit Bhatiya

National Conference on New Trends of Metal Ions in drugs Design, 2010, Aligarh, page No.30.

- 53.** Thermal Degradation to Nano Sulphides, Antimicrobial Studies and Spectroscopic Characterization of some Arsenic(III), Antimony(III) and Bismuth(III) Derivatives with Mixed Sulphur Donor Ligands.

**H.P.S.Chauhan, Invited lecture delivered and chaired one session**

**National Seminar on “Expanding Horizons in Chemical Sciences” at Department of Chemistry, A.P.S. University, Rewa (M.P.), 2011**

- 54.** Sulphur Donor Ligand Complexes of Group 15 Elements; Synthesis –

Characterization, Thermal Degradation to Nano Particles as well as Antimicrobial Studies.

**H.P.S.Chauhan, Inorganic Invited Lecture delivered [IIL-09] and chaired one session**

Indian Council of Chemists, 2011, Hyderabad.

- 55.** Chaired a session in “Recent Trends in Chemical and Biological Sciences”, organized by Department of Chemistry, Govt. (Autonomous) Holkar Science College, Indore, Madhya Pradesh, INDIA during January 13-15, 2012.

56. Chaired a session in the National Seminar on “**Emerging Trends in Chemical Sciences**” organized by School of Chemical Sciences, DAVV, Indore during March 20, 2012.
57. Synthesis, Characterization and Antimicrobial Activity of 1,3-Dithia-2-arsa(III) Cyclopentane Derivatives with Oxygen and Sulphur Donor Ligands.  
Sumit Bhatiya and **H.P.S. Chauhan**  
IP-CYSA-03; Indian Council of Chemists, 2012, Rajkot
58. Chemistry of Some Group 15 metal Complexes with Mixed Sulphur Ligands.  
**H.P.S. Chauhan,**  
**Sectional President’s Address [IIL-01]** Indian Council of Chemists, 2012, Rajkot
61. Synthesis and Characterization of Ethane-1,2-dithiolato tin(IV) dithiocarbamates  
**H.P.S. Chauhan** and Abhilasha Bakshi  
Indian Council of Chemists, 2013, Dharwad (IO-20)
62. Synthesis, Spectroscopic Characterization and Powder X-ray Diffraction Studies on *Bis*(N,N-diethyldithiocarbamato-S,S’) antimony(III) Complexes Oxo and/or Thio Donor Ligands  
Jaswant Carpenter and **H.P.S. Chauhan**  
Indian Council of Chemists, 2013, Dharwad (IO-CYSA-12)
63. Some Metal-Metal Multiple Bonded Metal Clusters  
**H.P.S. Chauhan**  
**Invited Talk, Workshop on Surface Science 2014**  
Christian Eminent College, Indore (IL7)
64. Studies on antimony(III) *bis*(O-alkyldithiocarbonato-S,S’) dialkyldithiocarbamate complexes  
**H.P.S. Chauhan,** Sapana Joshi and Jaswant Carpenter  
**Workshop on Surface Science 2014**  
Christian Eminent College, Indore (OP7)
65. Synthesis, Structural Characterization, Thermal and Biological Studies of Toluene-3,4-Dithiolatoantimony(III) Derivatives of Alkyldithiocarbonates  
**H. P. S. Chauhan** and Sapana Joshi  
**Indian Council of Chemists (ICC) 2014, Dhanbad; 15<sup>th</sup> to 17<sup>th</sup> December, IP-14**



66. Antimony(III) Derivatives with Mixed 1,1–dithiolato Ligands: Synthetic, Spectral, Thermal and Powder XRD Studies  
**H.P.S. Chauhan** and Sapana Joshi  
**Indian Science Congress Association (ISCA) 2015**, Mumbai; 3<sup>rd</sup> to 7<sup>th</sup> January, O–16
67. Studies on the mixed sulfur donor ligands compounds of antimony(III)  
**H.P.S. Chauhan**  
**Indian Council of Chemists, Invited lecture [IIL-03]**, 26<sup>th</sup> – 28<sup>th</sup> December 2015, Surat
68. Synthesis and characterization of Bis(diisobutyldithiophosphato)antimony(III) complexes with mixed sulfur and/or oxygen donor ligands  
Nitin Carpenter and **H.P.S. Chauhan**  
**Indian Council of Chemists, Winner of Dr. R.K. Agrawal award for the best poster [IP-10]**, 26<sup>th</sup> – 28<sup>th</sup> December 2015, Surat
69. Some Metal-Metal Multiple Bonded Metal Clusters, **Invited Lecture delivered by Dr. H.P.S. Chauhan on 10.10.2016 at JP University, Guna (M.P.)**
70. Synthesis and characterization of bismuth(III) thio derivatives: Potential single-source precursors for metal sulfide.  
Sapana Joshi, **H. P. S. Chauhan** and Sandeep Salodkar
71. Synthesis and characterization of *Bis*(O,O'-diisobutyldithiophosphato-S,S')antimony(III) Chloride complexes with oxygen and/or sulfur donor ligands.  
Nitin Carpenter, **H. P. S. Chauhan**
72. Spectral technique: Tools for structure elucidation of antimony(III) complexes.  
Jaswant Carpenter, **H. P. S. Chauhan** and Kavita Bundela
73. Synthesis, spectroscopic Characterization, Thermal and antimicrobial studies of toluene-3,4-dithiolatoarsenic(III) and antimony(III) derivatives.  
Sumit Bhatiya, **H. P. S. Chauhan**
74. Metal-Metal multiple bonded (Quadruple, Quintuple) Metal Clusters  
**Invited Lecture delivered by Dr. H.P.S. Chauhan on 07.07.2018 at University of Rajasthan, Jaipur (Raj.)**