BIO-DATA

2 NAME
3 SURNAME
4 FATHER'S NAME
5 DATE OF BIRTH

ASHOK KUMAR
MALIK
Prof. ABHIMANYU
18th October, 1966

6 **ADDRESS**

7 Official address: Permanent Home Address: 8 Dr. Ashok Kumar Malik Dr. Ashok Kumar Malik

9 Professor
10 Department of Chemistry
11 Punjabi University, Patiala,
12 Punjab, India
13 □ Punjab, India
142, Upkar Nagar
1547 Factory Area
164 Upkar Nagar
175 Patiala 147 002
176 Punjab, India
177 Punjab, India

2:0175-2353447 (Resi), 09815551332 (Mobile)



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ACADEMIC CAREER

16 17

Examination Passed	Board/ University	Year	Marks and per centage	Division Class/ Grade/ Distinction	Subjects
B.Sc.	Pbi. Univ., Patiala, Punjab, India	April, 1985	472/650 (72.6%)	First (11 th in Merit in the University)	Botany, Zoology, Sanskrit, Chemistry
M.Sc.	Pbi. Univ., Patiala, Punjab,	July, 1987	720/1200 (60%)	First	Inorganic Chemistry
M.Phil	Pbi. Univ., Patiala, Punjab, India	July, 1989	4.968/50 (73%)	First	Inorganic/ Analytical Chemistry
Ph.D	Pbi. Univ., Patiala, Punjab, India	October, 1991	Thesis topic: Spectrophotometr ic and polarographic examination of some pesticides	-	Inorganic/ Analytical Chemistry

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- 19 h-index: 39 (scopus), Number of Citations: 6,445
- 20 **Author ID:7402153157**
- 21 ORCID No:0000-0003-1045-6848

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PRESENT POSITION

- 24 At present working as a Professor Department of Chemistry, Punjabi University,
- 25 Patiala, Punjab, India.

26

27 **SPECIALISATION**

- 28 Inorganic Chemistry/ Environmental Analytical Chemistry/ Instrumentation in
- 29 Analytical Chemistry

FELLOWSHIP'S AWARDED

Y	ear (from/to)	Affiliate	City	Country	Remark	
1988.01	1990.01	Punjabi University , Patiala	Patiala	India	JRF (Junior Research Fellow)	
1990.02	1991.09	Punjabi University , Patiala	Patiala	India	SRF (Senior Research Fellow)	
1998.05	1999.12	Institute for Instrumental Analysis, Forschungszentrum Karlsruhe, Germany	Karlsruhe	Germany	AvH Fellowship	
2000.02	2000.09	Complutense University, Madrid, Spain, supported by the Ministry of Education and Science, Spain	Madrid	Spain	Invited Scientist	
2004.04	2004.04	GSF, Research Centre, Munich, Germany	Munich	Germany	DST-DAAD, PPP program	
2004.05	2004.07	Central Division of Chemical analysis, División of Inorganic mass spectrometry, Forschungszentrum Juelich, Juelich, Germany	Juelich	Germany	AvH Fellow (Reinvited)	
2005.05	2005.05	GSF, Research Centre, Munich, Germany	Munich	Germany	DST-DAAD, PPP, program	
2006.07	2006.09	GSF, Research Centre, Munich, Germany	Munich	Germany	AvH Fellow (Reinvited)	
2008.05	2008.08	GSF, Research Centre, Munich, Germany	Munich	Germany	AvH Fellow (Reinvited)	
2008.11	2008.12	Regensburg University, Regensburg, Germany	Munich	Germany	DST-DAAD, PPP program	
2009.05	2009.10	University of Valencia, Valencia, Spain	Valencia,	Spain	Guest Faculty (Invited Professor)	
2010.05	2010.07	Regensburg University, Regensburg, Germany	Regensburg	Germany	AvH Fellow (Reinvited)	
2015.04	2015.05	GSF, Research Centre, Munich, Germany	Munich	Germany	AvH Fellow (Reinvited)	

2015.05	2015.07	Regensburg University, Regensburg, Germany	Regenburg	Germany	AvH Fellow (Reinvited)
2017.04	2017.06	GSF, Research Centre, Munich, Germany	Munich	Germany	AvH Fellow (Reinvited)
2018.04	2018.09	Deakin University, Australia	Deakin	Australia	Senior Endeavour Executive Fellowship by Australian Research Council
2019.03	2019.08	Hanyang University, Department of Civil and Environmental Engineering, Seoul, South Korea	Seoul	South Korea	Visiting fellowship (Professorship)
2021-10	2023.19	Mid term career research award grant by the UGC, New Delhi, 2021.Rs. 10,00,000/-	Patiala	India	Award
2022.05	2022.07	Helmholtz Munich, Germany	Munich	Germany	AvH Fellow (Reinvited)

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REFEREE

- 34 1 Bulletin des Societies Chimiques Belges, Belgium
- 35 2 International JAOAC (USA).
- 36 **Italian Journal of food science**
- 37 4 Journal of Chromatography A (Elsevier, USA)
- 5 Electrophoresis (Springer, USA)
- 39 **Biochemical Engineering (Elsevier, USA)**
- 40 **Journal of Hazardous material (Elsevier, USA)**
- 41 8 Environmental letters
- 42 9 Analytical and bioanalytical chemistry
- 43 **Environmental science and technology**
- 44 11 Total analytical chemistry journal
- 45 **Journal of Separation Science (Springer, USA)**
- 46 Talanta (Elsevier, USA)
 - 14 Many other journals.....

MEMBERSHIP OF EDITORIAL BOARD

- 49 1 Member of the Editorial board of the Euroasia analysis journal.
- 50 **2** Member of the Editorial board of Trends in Analytical Chemistry (Elsevier's **Journal.**)

PROFESSIONAL CAREER

Year (from/to)		Affiliate	City	Country	Remark	
1988.01	1990.01	Punjabi University , Patiala	Patiala	India	JRF (Junior Research Fellow)	
1990.02 Punjabi University , Patiala Patiala India		India	SRF (Senior Research Fellow)			
1991.10	1991.10 D. A. V College, Hoshiarpur, Punjab; Hoshiarpur India		India	Lecturer		
1992.08	1999.12	D. A. V. College, Jalandhar, Post- graduate Dept., of Chemistry, Punjab	Jalandhar	India	Lecturer (Senior scale)	
1998.05	1999.12	Institute for Instrumental Analysis, Forschungszentrum Karlsruhe, Germany	Karlsruhe	Germany	AvH Fellowship	
2000.02	2000.09	Complutense University, Madrid, Spain, supported by the Ministry of Education and Science, Spain	Madrid	Spain	Invited Scientist	
2000.10	2003.08	Department of Chemistry, G. N. D. University, Amritsar, Punjab, India	Amritsar	India	Lecturer	
2003.08			India	Reader/Associate Professor		
2004.04	I MASE, DESEGNAL CENTRE, MANUALLE		Germany	DST-DAAD, PPP program		
2004.05	2004.07	Central Division of Chemical analysis, División of Inorganic mass spectrometry, Forschungszentrum Juelich, Juelich, Germany	Juelich	Germany	AvH Fellow (Reinvited)	
2005.05	2005.05	GSF, Research Centre, Munich, Germany	Munich	Germany	DST-DAAD, PPP, program	
2006.07	2006.09	GSF, Research Centre, Munich, Germany	Munich	Germany	AvH Fellow (Reinvited)	
2008.05	-		Munich	Germany	AvH Fellow (Reinvited)	
2008.11	2008.12	Regensburg University, Regensburg, Germany	Munich	Germany	DST-DAAD, PPP program	
2008.12	2011.05	CDLU, Sirsa, Haryana	Sirsa,	Haryana	Prof. and Chairperson	

2012.02	Till now	Department of Chemistry, Punjabi University, Patiala, Punjab, India	Patiala	atiala India Professor	
2009.05	2009.10	University of Valencia, Valencia, Spain	Valencia,	Spain	Guest Faculty (Invited Professor)
2010.05	2010.07	Regensburg University, Regensburg, Germany	Regensburg	Germany	AvH Fellow (Reinvited)
2015.04	2015.05 Germany Avit F		AvH Fellow (Reinvited)		
2015.05	2015.07	Regensburg University, Regensburg, Germany	egensburg, Regenburg Germany AvH Fellow (Reinvited)		
2017.04	2017.06	GSF, Research Centre, Munich, Germany	Munich	Germany	AvH Fellow (Reinvited)
2018.04	2018.09	Deakin University, Australia	Deakin	Australia	Senior Endeavour Executive Fellowship by Australian Research Council
2019.03	2019.08	Hanyang University, Department of Civil and Environmental Engineering, Seoul, South Korea	Seoul	South Korea	Visiting fellowship (Professorship)
2022.05	2022.07	Helmholtz Munich, Germany	Munich	Germany	AvH Fellow (Reinvited)

Administrative responsibilities

- 55 1 Chairperson Department of Chemistry, CDLU, Sirsa (2008-2011)
- Head, Department of Chemistry, Punjabi University, Patiala (2017-2020)
- **Director, International Students, Punjabi University, Patiala (2020)**
- **Director Planning and Monitoring, Punjabi University, Patiala (2021-2022)**

Ph.D. students

- 1 Jatinder Singh, Aulakh: Development of sensitive analytical methods for the trace analysis of some pesticides, <u>Degree Awarded: March 2008</u> (He was awarded DAAD, Germany fellowship for research work in Germany and at presently working as Assistant Professor in the Department of Chemistry, Punjabi university, Patiala.
- Varinder Kaur: Studies on the analysis of some toxic metal ions in environmental samples by using SPME-HPLC and derivative spectrophotometry, Degree Awarded:

 January, 2008 (She was awarded_Kothari Research Fellowship for her post-docotoral research in P.U. Chandigarh and working as Assistant Professor, Panjab University,

69		Chandigarh).
70		
71	3	Gaurav: SPME-HPLC studies of some explosives (Status : Completed and also
72		Completed DRDO, New Delhi Research Project and presently working as Assistant
73		Professor, Rampura Phul, Punjabi university, Patiala)
74		
75	4	Ashwini Kumar: Physico analytical studies of some organic compounds (: Completed
76		and Nominated for the DST, New Delhi - DAAD (Germany), research project. Presently
77		working as Assistant Professor, H.P.Govt. College)
78		
79	5	Manpreet Kaur: HPLC-UV and spectrophotometric studies of some pesticides (Status:
80		Thesis Submitted) and presently working as Assistant Professor, A.S. College,
81		Khanna under Panjab university, Chandigarh)
82		
83	6	Susheela Rani : SPE-HPLC -UV determination of some drugs (Status : Doing)
84		presently working as Assistant Professor in the Department of Chemistry, Punjabi
85		university, Patiala. (Status : Thesis Submitted)
86		
87	7	Kuldeep Kaur (Awarded) Presently working as Assistant Professor, Mata Gujari
88		College, Fatehgarh Saheb, Punjab, India.
89		
90	8	Jyoti Saini NANOPARTICLES BASED ELECTROCHEMICAL AND OPTICAL MINIATURIZED
91		BIOSENSOR FOR THE DETECTION OF ORGANOPHOSPHORUS PESTICIDES IN
92		SOIL, FOOD AND WATER SAMPLES (Status : Awarded)
93	•	Beingh Kuman DEVELORMENT OF NEW METHODS FOR THE DETERMINATION OF TOYIO
94	9	Rajesh Kumar DEVELOPMENT OF NEW METHODS FOR THE DETERMINATION OF TOXIC
95 96		METAL IONS USING VARIOUS CHROMATOGRAPHIC TECHNIQUES (Status : Submitted)
	10.	Ripneel Kaur DEVELOPMENT OF CHROMATOGRAPHIC METHODS FOR THE
97	10.	·
98 99		DETERMINATION OF DRUGS AND THEIR APPLICATIONS (Status : Doing)
	11.	Heena DEVELOPMENT OF NEW METHODS FOR THE DETERMINATION OF TOXIC METAL IONS
100101	11.	USING VARIOUS CHROMATOGRAPHIC TECHNIQUES (Status : Awarded)
101		USING VARIOUS CHROMATOGRAPHIC TECHNIQUES (Status : Awarded)
102	12.	Neha Sharma SYNTHESIS, CHARACTERIZATION, COMPUTATIONAL AND ANALYTICAL
	12.	· · · · · · · · · · · · · · · · · · ·
104		STUDIES OF PYRIDINE AND PYRIMIDINE HETEROCYCLIC COMPOUNDS (Status: Awarded)
105		-
106	13.	Balwinder Kaur SYMTHESIS, CHARACTERIZATION OF SEMICONDUCTOR NANO
107		MATERIAL FOR PHOTOCATALYTIC AND SENSING APPLICATIONS (Status: Awarded)
108		
109	14.	Ramandeep Kaur TRACE ANALYSIS OF TOXIC SUBSTANCES IN THE ENVIROMENT

110		USING CHROMATOGRAPHIC TECHNIQUES (Status: Awarded)
111		
112	15	Subhash Chand : STUDIES IN PYRIMIDINES, IT'S ANALOGUES AND NEW
113		SYNTHETIC METHODS" (Status: Awarded)
114		
115	16	Irshad Mohiuddin Development of preconcentration methods coupled with
116		chromatographic techniques for the trace analysis of drugs (Status: Awarded)
117		
118	17	Asnake Lealam (Status: Awarded)
119		
120	18	Aman Grover Synthesis and characterization of surface modified layered double
121		hydroxide composites for the analysis of pollutants (Status: Completed)
122	19	Shikha : DEVELOPMENT OF MOLECULARLY IMPRINTED CORE SHELL
123		NANOMATERIALS AND THEIR APPLICATION FOR IDENTIFICATION AND
124		SEPARATION OF EMERGING CONTAMINANTS IN FOOD AND ENVIRONMENTAL
125		SAMPLES. (Status: Awarded)
126	20	Deepika : Investigation of photocatalytic and sensing applications of nanostructures
127		AND Nanostructure IMPREGNATED METAL ORGANIC FRAMEWORKS (Status: doing)
128		
129	21	Manpreet Kaur : Synthesis, Characterization And Applications of Schiff Base Metal
130		organic frameworks (Status: Awarded)
131		
132	22	Promila Sharma "SYNTHESIS, CHARACTERIZATION AND APPLICATIONS OF
133		PYRAZOLINE COMPOUNDS" (Status: awarded)
134		
135	23	Rajpal Verma: SYNTHESIS AND APPLICATIONS OF MOFS FOR
136		PRECONCENTRATION AND DETECTION OF ORGANIC POLLUTANTS (Status:
137		doing)
138		
139	24	Gurpreet Singh (Status: doing)
140		
141	25	Seema Maheshwari (Status: doing)
142		
143	26	Kirandeep Kaur (Status: doing)
144		
145	27	Neha Sharma (Status: doing)
146		
147	Memb	per of professional bodies

148		
149	1	Member of the board of undergraduate and post-graduate studies, Department
150		of Chemistry, Punjabi University, Patiala
151	2	Member of the board of studies, Department of Chemistry, PTU, Kapurthala
152		Punjab.
153	3	Member of the board of studies, Department of Chemistry, Mata Gujari
154		Collage Fatehgarh Saheb,

Member of Governing bodies/funding agencies

Patiala

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185 186 1 Member of the Governing body of the Pondicherry Engineering College, Pondicherry.

4 Member of the board of studies, Department of Chemistry, Khalsa College,

2 Member of the Russian Foundation of Science for the grant of research projects.

3 Reviewer for the research grants with the Czech republic

4 Considered as **Chairman** for the NAAC peer review committee.

Special attainments of Ph.D. students

174 1 Dr. Varinder Kaur awarded Kothari Fellowship and appointed as Assistant Professor in 175 Chemistry Department, Punjab University, Chandigarh 176 2 Dr. Jatinder Aulakh, awarded DST-DAAD, DAAD Fellowship and appointed in

177 Chemistry Department, Punjabi University, Patiala.

178 3 Dr. Ashwini Kumar Awarded DST-DAAD, DAAD Fellowship and appointed in 179 Chemistry Department, Govt College , Lecturer, HP.

Mrs. Ramandeep Kaur awarded Raman Charpak Fellowship in France to work with Prof.
 Maurice Millet, Strassburg University, Strassburg.

Most of the Ph.D. students after the award of Ph.D. Degree are working in reputed institutions.

RESEARCH PROJECTS

Sr. Titel of Project **Funding** Time Amount Status No **Sanctioned** Agency period Rs. 25,000/-1 Spectrophotometric (Project No. 4-1995-96 Completed

	determination of	4/95, UGC,			
	toxic metal ions in	· · ·			
		New Dellii).			
	environmental				
	samples	CGID N	D 6 50 000/	2004	
2	Solid-phase	CSIR, New	Rs. 6,50,000/-	2004-	Completed
	microextraction –	Delhi,		2007	
	HPLC : A new				
	technology;				
	Application to				
	analysis of				
	pesticides,				
3	Rapid analysis of	DST-DAAD	Rs. 4.50,000/-	2004	Completed
	pesticides and	project based			
	metabolites in food	research			
	stuffs and	program, With			
	environmental	Group leader			
	samples by solid	Dr. Schmidt-			
	phase micro	Kopplin, GSF,			
	extraction -high	Research			
	performance liquid	Center,			
	chromatography	Germany			
	(SPME-HPLC) By	J J			
	and capillary				
	electrophoresis				
	mass-spectrometry,				
4	Solid-phase	UGC, New	Rs. 8,67,000/-	2004	Completed
	microextraction –	Delhi,			-
	HPLC : A new	completed, FTR			
	technology;	and utilization			
	Application to	certificate			
	analysis of toxic	submitted,			
	metals	,			
5	Solid-phase	DRDO, New	Rs.	2008-	Completed
	microextraction –	Delhi,	14,39,150/-	2011	1
	HPLC : A novel				
	technique;				
	Application to				
	analysis of				
	explosives,				
6	Special Assistance	Deputy Co-	Rs.	2010-	Completed
	programme of UGC,	ordinator	42,00,000/-	2015	1
	New Delhi,	sanctioned to	, ,		
	,	the Department			
		of Chemistry,			
	L	Chombuy,		J	

		Punjabi			
		University,			
		=			
_	0 1 1 1	Patiala,	D	2010	G 1 . 1
7	Solid-phase	-, CSIR, New	Rs.	2010-	Completed
	microextraction -	Delhi, -	12,00,000/-	2013	
	HPLC : Application				
	to analysis of				
	endocrine disrupters				
	using fibres				
	developed by sol-gel				
	methods				
8	SPME-HPLC with	DST-DAAD	Rs. 4.50,000/-	2013-	Completed
	Segmented Columns	(P-180/2008).		2016	
	and Simultaneous				
	UV and Dual				
	Electrochemical				
	Detection:				
	Application to the				
	Selectivity				
	Enhancement for the				
	Determination of				
	Explosives				
9	Special Assistance	Deputy Co-	Rs.	2013-	Completed
	programme of UGC,	ordinator	75,00,000/-	2018	Completed
	New Delhi,	sanctioned to	73,00,000	2010	
	Tiew Benn,	the Department			
		of Chemistry,			
		Punjabi			
		University,			
		Patiala,			
10	Speciation of the	UGC, New	Rs. 9,43,500/-	2017-	Completed
	toxic metal ions	Delhi,		2020	
	using High pressure	completed, FTR	-		
	liquid	and utilization			
	chromatography	certificate			
	Completed	submitted,			
11	Development of	VAJRA, SERB	Expenditure	2021-	Ingoing
	Deep Eutectic	DST, New	upto about	2023	
	solvents for the	Delhi, India	US		
	extraction of	International	\$ 1,20,000/-		
	antidiabetic	research			
1	compounds from	project with			l I
	-	project with Prof. Dr.			
	compounds from plants				

		Schmitt- Kopplin, Helmholtz, Research Center, Munich, Germany. In progress.			
12	Miniaturised analytical systems	Sanctioned GIAN research project	US\$ 8,000/-	2022	Completed
13	Synthesis of Luminescent metal-organic frameworks (LMOFs) based on Schiff base ligands for sensing applications	Mid term career research award grant by the UGC, New Delhi,	Rs. 10,00,000/-	2021- 2022	Completed

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RESEARCH STUDENTS GUIDED:

- M.Sc. students 190
- Sonam Bansal, Vaneet Kumar, Kuldeep Singh, Ranjot Singh, Gurvinder 191
- Kaur, Manju, Kanika, Swati, Deepika, Renu, Anuj Yadav, Vandana, 192

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- M. Phil. Students 194
- Nutan, Manju, Priyanka, Suresh, Ramandeep Kaur, Ramandeep Kaur, 195
- Irshad, Shikha, Sandeep. 196
- SPECIAL INVITATIONS 197
- 1 Invited to contribute one chapter 'Dithiocarbamates' to The Encyclopedia of 198 Agrochemicals, Published by John Willey and Sons, and to be Edited by Prof. J. R. 199
- Plimmer, USA. DOI: 10.1002/047126363X, Online ISBN: 9780471263630 200

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- 2 Contributed two chapters to the capillary electrophoresis small ions to 202 macromolecules, edited by Prof. Schmitt Kopplin, P. Published by Humana Press, 203
- USA. ISBN: 1588295397, EAN: 9781588295392 204
 - (A) Capillary electrophoretic analysis of metal ions

(B) Capillary electrophoresis-UV analysis of organic pollutants

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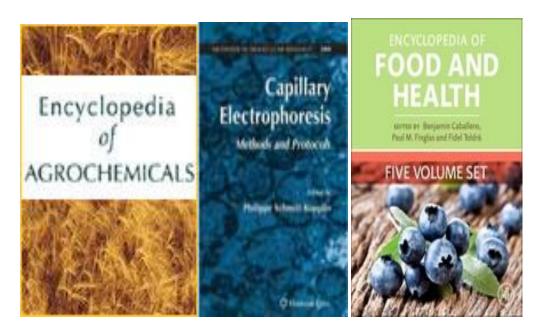
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3. Antidepressants: Pharmacology, Health Effects and Controversy' to the book titled 'Antidepressants: Pharmacology, Health Effects and Controversy', edited by Louis J. Mígne and Jason W. Post, Nova Science Publishers, USA, 2012. ISBN: 978-58829-539-2,

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- 217 4. Speciation analysis in Food, Elsevier Publishers, Prof. Yolanda Pico
- Paperback ISBN: 9780128132661, e Book ISBN: 9780128132678
- 5 Spectroscopy: Types Elsevier Publishers, ISBN-10: 0123849535
- 220 ISBN-13: 9780123849533, AK Malik, R Kumar, and Heena, Punjabi
- University, Patiala, India Edited by Prof. Benjamin Caballero
- 222 6 Capillary electrophoresis of small ions, edited by Prof. Schmidt Kopplin, P.
- Published by Humana Press, USA. 2014, ISBN: 978-1-4939-6403-1
- Nanostructure Impregnated MOFs for Photo-catalytic and Sensing Applications
- Aman Grover, Irshad Mohiuddin, Shikha Bhogal, Ashok Kumar Malik, and Jatinder
- 226 Singh Aulakh
- 227 8 Metal-Organic Frameworks: Synthesis, Characterization and Applications

228		Shikha Bhogala, Irshad Mohiuddina, Aman Grover, Sandeep Kumara, Kuldeep Kaur,
229		Ashok Kumar Malik
230		
231	<u>LIST</u>	OF CONFERENCES ATTENDED About international conferences attended.
232	Major	conferences are:
233	1.	Indian Science Congress, Punjabi University, Patiala, Punjab, India
234	2.	2 ND Euroconference in Environmental Chemistry, Cordoba University, Spain
235		(Awarded full board fellowship for attending the conference.) Oct. 1998
236	3.	3 RD Euroconference in Environmental chemistry, Chalkidiki, Greece. Oct. 1999
237	4	4th EUROCONFERENCE IN ENVIRONMENTAL CHEMISTRY,
238		VISEGRAD, HUNGARY (AWARDED FULL BOARD FELLOWSHIP) SEPT.,
239		2000
240	5	EUROANALYSIS 12 (FUNDED BY THE AvH FOUNDATION, BONN,
241		GERMANY) 8-13 SEPT. 2002, DORTMUND, GERMANY
242	6	2005 ASIA PACIFIC WINTER CONFERENCE ON PLASMA
243		SPECTROCHEMISTRY, CHIANG MAI, THAILAND, APRIL 25-30, 2005.
244		SUPPROTED BY THE JOHN CANTLE SCIENCE FOUNDATION, USA IN
245		THE FORM OF AN AWARD
246	7	NATIONAL SEMINAR IN CHEMISTRY, 2009, Punjabi University, Patiala,
247		Punjab, India. INVITED LECTURE
248	8	ETSAC, 2009, SLIET, PUNJAB, LONGOWAL, 14-15, MARCH, 2009.
249		INVITED LECTURE
250	9	INVITED LECTURE 2010 AT M.M. MODI COLLEGE, PATIALA
251	10.	INVITED LECTURE AT A.S. COLLEGE, KHANNA, PUNJAB 2012
252	11.	INVITED LECTURE AT M.M. MODI COLLEGE, PATIALA, PUNJAB, 2012
253	12.	INVITED LECTURE AT POST GRADUATE COLEEGE, PUNJAB, 2013.

254	13.	INVITED LECTURE AT ACADEMIC STAFF COLLEGE, GNDU,
255		AMRITSAR 2013
256	14	INVITED LECTURE AT ACADEMIC STAFF COLLEGE, KU,
257		KURUKSHETRA 2014
258	15.	INVITED LECTURE AT INTERNATIONAL CONFERENCE AT DR. S.S.S
259		BHATNAGAR INSTITUTE OF CHEMICAL ENGINEERING AND TECHNOLOGY,
260		PANJAB UNIVERSITY, CHANDIGARH 2014
261	16.	INVITED LECTURE AT ACADEMIC STAFF COLLEGE, REFRESHER COURSE
262		FOR ALLIED SCIENCES, PUNJABI UNIVERSITY, PATIALA, 2015
263	17	INVITED LECTURE AT ACADEMIC STAFF COLLEGE, REFRESHER COURSE
264		FOR ENVIRONMENT SCIENCES, PUNJABI UNIVERSITY, PATIALA 2015.
265	18	INVITED LECTURE AT M.M. MODI COLLEGE, PATIALA, 2015
266	19	INVITED LECTURE AT GOVT. MOHINDERA COLLEGE, PATIALA, 2015.
267	20	INVITED LECTURE AT M.M. MODI COLLEGE, PATIALA, 2016
268	21	KEY NOTE ADDRESS AT KHALSA COLLEGE, BUDHLADA, 2017
269	22	INVITED LECTURE AT GJU, HISSAR, 2018
270	23	INVITED LECTURE AT KHALSA COLLEGE, BUDHLADA, 2020
271	24	INVITED LECTURE AT CHASCON-2020 (SECTION: CHEMICAL SCIENCES)
272		PANJAB UNIVERSITY, CHANDIGARH.
273	25	INVITED LECTURE AT DR. R.C. PAUL MEMORIAL CONFERENCE, 2020
274		PANJAB UNIVERSITY, CHANDIGARH.
275		
276	<u>SUN</u>	MARY OF RESEARCH WORK DONE SO FAR
277	Resear	rch work leading to Ph.D was carried by me at the Punjabi University, Patiala, Punjab,
278	India	with Prof. A.L.J. Rao. During this work we developed different spectrophotometric
279	metho	ds for the determination of several metal ions and pesticides via complexation with
280	suitab	le organic reagents for the colour development. Polarographic studies of the pesticides
281	and m	etal ions were also carried out and these were applied for their analysis in several

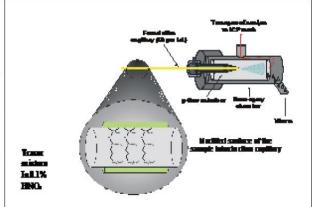
commercial samples, synthetic mixtures and residue analysis.

I have also worked as PDF, sponsored the AvH, foundation, Bonn. Germany, with group leader Dr W. **Faubel** in the IFIA. Forschungszentrum, Karlsruhe, Postfach 3640, D-76021, Karlsruhe, Germany. There I worked for the analysis of toxic metal ions and pesticides using capillary electrophoresis in water and various environmental samples and for the further improvements in the detector system using thermal lensing.

CE-Thermal lensing sensor

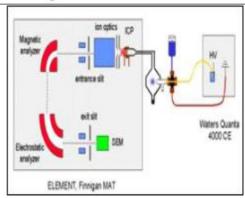


I was invited as a Scientist by the MEC, Spain to work with Prof. Carmen – Camara for the development of the new methods for the sample introduction in ICP-MS. There I worked for the analysis of the As in various environmental samples and for the interference removal of chloride in the determination of As using ICP-MS.



Schematic of on-line Capillary electrophoresis-ICP-MS

I was also reinvited by the AvH, Bonn, Germany to do further research work in Germany at the Forschungszentrum Juelich, Juelich and during this work I developed CE-ID-ICP-MS hyphenation for the analysis of the lanthanides and actinides in various environmental samples under the supervision of Prof. J.S. Becker.



CE-hyphenated to ICP-MS

Major Research Activities

- 1 Spectrophotometric dertermination of toxic metal ions and pesticides
- 2 Polarographic determination toxic metal ions and pesticides
- 289 4 ICP-MS for the analysis of metal ions, pesticides, etc and modifications in the sample introduction systems.
- 291 Solid phase micro-extraction of organic compounds in different environmental 292 samples and their analysis by HPLC-UV, GC-MS, etc

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Major instruments Handled/Training/softwares

- 1 Polarograph
- ²⁹⁵ 2 FIIR (Varian)
- 296 3 Spectrophotometer (Vairan, Bausch and Lomb, Elico, Schimadzu)
- 297 4 Capillary electrophoresis (Termo Quest, Beckman Coulter P/ACE MDQ
- 298 Carbohydrate system, Agilent)
 - 5 Capillary electrophoresis in hyphenation with termal lensing
- 6 Capillary electrophoresis in hyphenation with ICP-MS
- 300 7 HPLC (Waters, Dionex USA)
- 301 8 Spectrofluorimeter (Schimadzu)
- 302 9 ICP-MS (HP, Elan, Element (Bruckers))
 - 10 Solid phase microextraction (SPME) and SPE (Suppelco)
 - 11 FTICR-MS (12 Tesla Bruckers)

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REFERENCES

306 Prof. Ph. Schmitt -Kopplin Prof. A. L. J. Rao,	
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310 e-mail:schmitt-kopplin@gsf.de e-mail:aljrao@rediffman	l.com

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BEST POSTER AWARDS:

1 'A new approach to the analysis of toxic metal ions by using SPME-HPLC-UV system"Varinder Kaur, **Ashok Kumar Malik**, Raghubir Singh and J. K. Puri

"Rapid analysis of nitro explosives using solid phase microextraction high performance liquid chromatography on reverse phase amide column with UV detection and application to aqueous samples" Gauray, Ashok Kumar Malik, P. K.Rai at National Seminar on Recent Trends in Chemistry at Punjabi University, Patiala, Jan 21-22, 2009 323 3 Analysis of linear alkylbenzenesulfonates in water and sediment samples by CE-UV and CE-MS. Ashok Kumar Malik, P. Vazquez-Roig and Yolanda Picó Professor Ram Chand Paul 7th National Annual Symposium on Recent Trends in Chemistry, P. U. Chandigarh, 2010. 328 4 MEPS-GC-MS determination of Endosulfan isomers and its metabolites in tap water and technical sample at National Conference on Innovative Molecules for Sustainable Future organized by School of Chemistry and Biochemistry, Thapar University, Patiala on October 24-26, 2013. Raman 333 334 4 FOREIGN SCIENTISTS VISIT TO MY LAB 1 Prof. Ph. Schmitt-Kopplin Department of Ecological Chemistry GSF, Research Centre, Munich, Germany 4 Dr. Moritz Frommeberger Department of Ecological Chemistry GSF, Research Centre, Munich, Germany 4 Dr. Marco Grundmann Regensburg University, Regensburg University, Regensburg, Germany 5 Dr. Mourad Harir Department of Ecological Chemistry GSF, Research Centre, Munich, Germany 7 Dr. Marco Grundmann Prof. Ian D. Brindle B.Sc., M.Sc., D.Sc., FRSC(UK) Chancellor's Chair for Research Excellence Professor of Chemistry Dean, Faculty of Mathematics and Science Professor of Chemistry Dean, Faculty of Mathematics and Science	315 316		Professor Ram Chand Paul 4 th National Annual Symposium on Recent Trends in Chemistry, P. U. Chandigarh, 2008.
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367 368	LIST	OF CONFERENCES ORGANISED
369 370	I hav	e played an active role during the organisation of the :
371372	1	the National Seminar held at the Department of Chemistry, Punjabi University,
373		Patiala (Feb. 15-16, 2011)
374	2	the National Seminar held at the Department of Chemistry, Punjabi University,
375		Patiala (Feb. 15-16, 2012)
376	3	the National Seminar held at the Department of Chemistry, Punjabi University,
377		Patiala (Feb. 15-16, 2013)
378	4	National Seminar held at the Department of Chemistry, Punjabi University, Patiala
379		(Feb., 2014)
380	5	7 th National Seminar held at the Department of Chemistry, Punjabi University,
381		Patiala (Feb. 19-20, 2015)
382	6	8th National Seminar held at the Department of Chemistry, Punjabi University,
383		Patiala during Feb. 04-05, 2016.
384	7	9th National Seminar held at the Department of Chemistry, Punjabi University,
385		Patiala during Feb. 09-10, 2017.
386	8	10th National Confrence held at the Department of Chemistry, Punjabi University,
387		Patiala during Feb. 15-16, 2018.
388	9	11th National Confrence held at the Department of Chemistry, Punjabi University,
389		Patiala during Feb. 07-08, 2019.
390	10	12 th National Confrence held at the Department of Chemistry, Punjabi University,
391		Patiala during Feb. 19-20, 2020.

392 LIST OF PUBLICATIONS (2022-1991)

Sr. No.	Title	Authors	Journal name	Page Number	Year	Volu me	Issue/ number	Author type	Impact factor	ISSN No.
228	Porphyrin metal- organic framework sensors for chemical and biological sensing	Malik Ashok Kumar, Rupy Dhir, Kaur, M.,	Environm ental Science and Pollution Research		2023			Corresponding	5.19	
227	Synthesis, Characterization, Analytical Application, and Theoretical Studies of a Schiff Base, (E)-2-(2- aminophenylthio)-N- (Thiophen-2-yl- methylene) Benzenamine	Asnake Lealem Berhanu, Irshad Mohiuddin, Ashok Kumar Malik, Jatinder Singh Aulakh	Journal of fluorescen ce				DOI 10.100 7/s108 95- 023- 03435- 5	Corresponding	2.217	1053-0509
226	Development of a novel green catalyzed nanostructured Cu (II) macrocyclic complex-based disposable electrochemical sensor for sensitive detection of bisphenol A	M Patyal, D Verma, N Gupta, AK Malik	Environm ental Pollution	122420	2023	336	https:// doi.org/ 10.101 6/j.env pol.202 3.1224 20	Co-author	8.9	0269-7491
225	Magnetic graphene oxide carbon dot nanocomposites as an efficient quantification tool against parabens in water and cosmetic samples	Malik Ashok Kumar, Jatinder Singh Aulakh, Sandeep Kumar	Environm ental Science and Pollution Research		2023			Co-author	5.19	1614-7499
224	Terbium-Based Dual- Ligand Metal Organic Framework by Diffusion Method for Selective and Sensitive Detection of Danofloxacin in	G Singh, D Garg, S Kumar, R Verma, AK Malik	Environm ental Science and Pollution Research		2023			Corresponding	5.19	1614-7499

	Aqueous Medium					1				T
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223	Highly selective and sensitive detection of Cu2+ ions using TGA capped Ce (III)-doped ZnS nanoparticles as fluorescent probe	S Maheshwari, K Kaur, AK Malik, M Kaur			2023					
222	Rhodanine-3-acetic acid based meta and para phenyl substituted novel derivatives: Synthesis, structural characterization and DFT study	Varinder Singh, Neha Sharma, Ashok Kumar Malik , Sandeep Kaur	Journal of Molecular Structure	136459	2023	129	2	Co-author	3.8	0022-2860
221	Pyrazoline-Based Fluorescent Probe: Synthesis, Characterization, Theoretical Simulation, and Detection of Picric Acid	P Sharma, M Yusuf, AK Malik	Journal of Fluoresce nce		2023			Corresponding - author	2.217	1053-0509
220	Amine-decorated Zirconium Based Metal Organic Framework for Ultrafast Detection of 2,4,6-Trinitrophenol in Aqueous Samples	Verma, R., Dhingra, G., Kaur, M., (), Mohiuddin, I., Malik, A.K.	Journal of Fluoresce nce		2023			Corresponding - author	2.217	1053-0509
219	Restricted access medium magnetic molecularly imprinted polymers: Validation of their suitability as an effective quantitation tool against phthalates in food products packaged in plastic	Bhogal, S., Mohiuddin, I., Kim, KH., Malik, A.K., Kaur, K	Chemical Engineeri ng Journal	141270	2023	457,		Co-author	16.744	1385-8947
218	Efficient Turn-On Zr Based Metal Organic Framework	Verma, R., Dhingra, G., Singh, G., (), Dureja, N., Malik, A.K.	Journal of Fluoresce nce		2023			Corresponding - author	2.217	1053-0509

	T						1		1	1
	Fluorescent Sensor for									
	Ultrafast Detection of									
	Danofloxacin in Milk									
	Samples									
217	A Novel Composite of	Deepika, Heena, Kaur, M., Singh,	Journal of	613-629	2023	33	(2)	Corresponding -	2.217	1053-0509
	Zinc-based Metal	K., Malik, A.K	Fluoresce					author		
	Organic Framework		nce							
	Embedded with SnO2									
	Nanoparticle as a									
	Photocatalyst for									
	Methylene Blue Dye									
	Degradation as well as									
	Fluorometric Probe for									
	Nitroaromatic									
	Compounds Detection									
216	Optical and	Patyal, M., Kaur, K., Gupta, N.,	Protection	169-178	2023	59	2	Co-author	1.2	2070-2051
	Antimicrobial Activity	Kaur, R., Malik, A.K.	of Metals	-0, 1,0						
	of Nanostructured	,,,	and							
	Mn(II) and Cu(II)		Physical							
	Macrocyclic		Chemistry							
	Complexes Derived		of							
	from Aspartic Acid		Surfaces							
215	Schiff base-	Kaur, M., Kumar, S., Yusuf, M.,	Environm	116811	2023	236	2	Co-author	8.3	0013-9351
213	functionalized metal-	(), Ahmadi, Y., Kim, KH.	ental	110011	2023	230	_	Co uumor	0.5	0013 7331
	organic frameworks as	(), / 111111401, 11, 111111, 11.	Research							
	an efficient adsorbent		rescuren							
	for the									
	decontamination of									
	heavy metal ions in									
	water									
214	Innovative lanthanide	Patyal, M., Kaur, K., Bala, N.,	Journal of	127277	2023	80		Co-author	3.5	
	complexes: Shaping	Gupta, N., Malik, A.K.	Trace	12/2//	2023			Co unuioi	2.5	
	the future of cancer/	- Cupus, 111, 11111111, 11111	Elements							
	tumor chemotherapy		in							
	tamor enemotionerupy		Medicine							
			and							
			Biology							
213	Novel	Deepika Garg, Heena Rekhi,	Journal of			<u> </u>	10.100	Corresponding		1053-0509
213	SnO2@Cu3(BTC)2	Harpreet Kaur, Karamjit Singh,	Fluoresce				7/s108	Corresponding		1033 0307
	Composites as a	Ashok Kumar Malik	nce				95-			
	Highly Efficient	TIONOR IXUNIAL IVIAIR	1100				023-			
	Photocatalyst and						03232-			
	i notocataryst and					1	03232-			

	Fluorescent Sensor						0			
212	Nanoscale synthesis, structural elucidation, DFT, and biological activity of amide appended transition metal(II) macrocyclic complexes in drug delivery system	Meenakshi Patyala ,Kirandeep Kaur,Promila Sharma,Nidhi Gupta,Ashok Kumar Malik & Kamaldeep Paul	Journal of Coordinati on Chemistry	19-24	2022	75	https:// doi.org/ 10.108 0/0095 8972.2 022.21 51363	Co-author	3.0	0095-8972
211	Photocatalytic and Sensing Applications of Semiconductor Nanostructures	Seema Maheshwari, Shikha Bhogal, Kuldeep Kaur, and Ashok Kumar Malik	Current and Future Developm ents,	30-59	2022,			Corresponding	Book chapter	
210	A Luminescent Cu(II)- MOF with Lewis Basic Schiff Base Sites for the Highly Selective and Sensitive Detection of Fe ³⁺ Ions and Nitrobenzene	Manpreet Kaur, Mohamad Yusuf and Ashok Kumar Malik	Journal of Fluoresce nce		2022		https:// doi.org/ 10.100 7/s108 95- 022- 03053- 7	Corresponding	2.217	1053-0509
209	Amine/hydrazone functionalized Cd(II)/Zn(II) metalorganic framework for ultrafast sensitive detection of hazardous 2,4,6-trinitrophenol in water	Manpreet Kaur, Mohamad Yusuf, Yiu Fai Tsang, Ki-Hyun Kim, Ashok Kumar Malik	Science of The Total Environm ent	159385	2022		https:// doi.org/ 10.101 6/j.scit otenv.2 022.15 9385	Corresponding	10.753	0048-9697
208	Bisphenol A in canned soft drinks, plastic-bottled water, and household water tank from Punjab, India	Ashwini Kumar, Daljit Singh, Rajan Bhandari, Ashok Kumar Malik, Sukhjeet Kaur, Baljinder Singh	Journal of Hazardous Materials Advances	100205	2022	9	Availab le online 19 Novem ber 2022, 100205	Co-author	10.1016	2772-4166
207	Progress in Pre- Treatment and Extraction of Pollutants by Layered Double Hydroxide	Aman Grover, Irshad Mohiuddin, Ashok Kumar Malik, Jatinder Singh, Aulakh Lee. J.C., Richard J.C. Brown, Ki-Hyun Kim	Environm ental Research	-	2022	-	-	Corresponding	8.431	0013-9351

206	Mesoporous Silica Imprinted Carbon Dots for the Selective Fluorescent Detection of Triclosan	Bhogal, Shikha; Mohiuddin, Irshad; Malik, Ashok Kumar; Brown, Kuldeep Gill, Richard J.C., Heynderickx, Philippe M., Kim, Ki-Hyun	Science of The Total Environm ent	157289	2022	-	-	Corresponding	10.753	0048-9697
205	Self-Polymerized Polydopamine- Imprinted Layer- Coated Carbon Dots as a Fluorescent Sensor for Selective and Sensitive Detection of 17β-Oestradiol	Bhogal, Shikha; Mohiuddin, Irshad; Malik, Sandeep kumar Ashok Kumar; Brown, Kuldeep Gill, Kim, Ki-Hyun	Science of The Total Environm ent	-	2022	-	-	Corresponding	10.753	0048-9697
204	Novel Electrochemical Synthesis and Characterization of Zn(II) Metal Organic Framework for Photo- catalytic and Sensing Applications	Deepika Garg, Heena Rekhi, Harpreet Kaur, Karamjit Singh, Ashok Kumar Malik	Journal of Fluoresce nce	1565– 1580	2022	32	-	Corresponding	2.217	1053-0509
203	Identification of Missense SNPs mediated mutations in the regulatory sites of aldose reductase (ALR2)responsible for treatment failure in diabetic complications	Bhawna Vyas, Shalki Choudhary; Himanshu Verma; Manoj Kumar; Ashok Kumar Malik	Journal of Molecular Graphics and Modelling	-	2022	-	-	Corresponding	2.518	1093-3263
202	Nanostructure Impregnated MOFs for Photo-catalytic and Sensing Applications	Aman Grover, Irshad Mohiuddin, Shikha Bhogal, Ashok Kumar Malik, Jatinder Singh, Aulakh Lee.	Bentham Science Publishers	-	2022	-	-	Corresponding	N/A	N/A
201	Metal-Organic Frameworks: Synthesis, Characterization and Applications	Shikha Bhogal, Irshad Mohiuddin, Aman Grover, Ashok Kumar Malik, Jatinder Singh, Aulakh Lee.	Bentham Science Publishers	-	2022	-	-	Corresponding	N/A	N/A
200	Fluorescence "Turn-Off" Sensing of Iron (III) Ions Utilizing Pyrazoline Based Sensor: Experimental	Promila Sharma, Shikha Bhogal, Irshad Mohiuddin, Mohamad Yusuf, Ashok Kumar Malik	Journal of Fluoresce nce	-	2022	-	-	Corresponding	2.217	1053-0509

	and Computational									
	Study									
199	A Luminescent Zinc- based azine- functionalized metal- organic framework for fluorescence detection of Fe ³⁺ ions in the aqueous medium	Manpreet Kaur , Ashok Kumar Malik, Mohamad Yusuf,	Journal of Fluoresce- nce	-	2022	-	-	Corresponding	2.217	1053-0509
198	Synthesis and Applications of MOFsChalcogenide- based Nanocomposites	Shikha Bhogal, Irshad Mohiuddin, Sandeep Kumar, Promila Sharma, Asnake Lealem Berhanu, Kuldeep Kaur, Ashok Kumar Malik	Taylor and Francis Group	-	2022	N/A	N/A	Corresponding	N/A	9781003188148
197	Mobil catalytic material number 41 modified magnetite nano-composites for efficient extraction of non-steroidal anti-inflammatory drugs from tap water and urine samples	Sandeep Kumar Shikha Bhogal Promila Sharma Susheela Rani, Jatinder Singh Aulakh Ashok Kumar Malik	Sep Sci plus	-	2022	-	-	Corresponding	N/A	2573-1815
196	Experimental and Theoretical Studies of the Pyrazoline Derivative 5-(4-methylphenyl)-3-(5-methylfuran-2-yl)-1-phenyl-4,5-dihydro-1H-Pyrazole and its Application for Selective Detection of Cd2+ ion as Fluorescent Sensor	Sharma P., Bhogal S., Lealam A., Kumar S., Yusuf M., Malik A.K.	Journal of Fluoresce nce	969-981	2022	32	3	Corresponding	2.217	1053-0509
195	A Novel Method for the Synthesis of MOF- 199 for Sensing and Photocatalytic Applications	Garg D., Rekhi H., Kaur H., Singh K., Malik A.K.	Journal of Fluoresce nce	1171- 1188	2022	32	3	Corresponding	2.217	1053-0509
194	Bis(thiophen-2-yl- methylene) Benzene-1, 4-Diamine as	Berhanu A.L., Bhogal S., Mohiuddin I., Grover A., Malik A.K., Aulakh J.S.	Journal of Fluoresce- nce	1247- 1259	2022	32	3	Corresponding	2.217	1053-0509

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	Fluorescent Probe for									
	the Detection of Fe3+									
	in Aqueous Samples									
193	Magnesium/aluminum	Grover A., Mohiuddin I., Malik	Journal of	127454	2022	424	-	Co-author	14.224	0304-3894
	layered double	A.K., Aulakh J.S., Vikrant K.,	Hazardous							
	hydroxides	Kim KH., Brown R.J.C.	Materials							
	intercalated with starch									
	for effective adsorptive									
	removal of anionic									
	dyes									
192	Synchronous	Bhogal S., Sharma P., Rani P.,	Journal of	359-367	2022	32	1	Corresponding	2.217	1053-0509
	Fluorescence	Kaur K., Malik A.K.	Fluoresce-					1 0		
	Determination of Al3+	,	nce							
	Using 3-Hydroxy-2-									
	(4-Methoxy Phenyl)-									
	4H-Chromen-4-One as									
	a Fluorescent Probe									
191	Post-synthetic	Kaur M., Kumar S., Yusuf M.,	Coordinati	214214	2021	449	-	Corresponding	24.833	0010-8545
	modification of	Lee J., Brown R.J.C., Kim KH.,	on							
	luminescent metal-	Malik A.K.	Chemistry							
	organic frameworks		Reviews							
	using schiff base									
	complexes for									
	biological and									
	chemical sensing									
190	Simultaneous	Mohiuddin I., Bhogal S., Grover	Environm	100527	2021	16	-	Corresponding	-	2215-1532
	determination of	A., Malik A.K., Aulakh J.S.	ental							
	amitriptyline,		Nanotech							
	nortriptyline, and		nology,							
	clomipramine in		Monitorin							
	aqueous samples using		g and							
	selective multi-		Managem							
	template molecularly		ent							
	imprinted polymers									
189	Post-Synthesis	Kaur M., Kumar S., Younis S.A.,	Chemical	130230	2021	423	-	Corresponding	16.744	1385-8947
	modification of metal-	Yusuf M., Lee J., Weon S., Kim	Engineeri							
	organic frameworks	KH., Malik A.K.	ng Journal							
	using Schiff base									
	complexes for various									
	catalytic applications									
188	Hollow porous	Bhogal S., Kaur K., Mohiuddin I.,	Environm	117775	2021	288	-	Co-author	9.988	0269-7491
	molecularly imprinted	Kumar S., Lee J., Brown R.J.C.,	ental							

	polymers as emerging	Kim KH., Malik A.K.	Pollution							
	adsorbents	,								
187	Synthesis of Copper Metal Organic Framework Based on Schiff Base	Kaur M., Yusuf M., Malik A.K.	Journal of Fluoresce nce	1959- 1973	2021	31	6	Corresponding	2.217	1053-0509
	Tricarboxylate Ligand for Highly Selective and Sensitive Detection of 2,4,6-Trinitrophenol in Aqueous Medium									
186	Dual-template magnetic molecularly imprinted polymer- based sorbent for simultaneous and selective detection of phenolic endocrine disrupting compounds in foodstuffs	Bhogal S., Mohiuddin I., Kaur K., Lee J., Brown R.J.C., Malik A.K., Kim KH.	Environm ental Pollution	116613	2021	275	-	Co-author	9.988	0269-7491
185	Selective lithiation of 2,4-lutidine: Role of transition states of lithium dialkylamides	Sharma N., Dhau J.S., Singh A., Abbat S., Bharatam P.V., Malik A.K., Singh A.	Journal of Organome tallic Chemistry	121691	2021	936	-	Co-author	2.345	0022-328X
184	Chitosan-Ni/Fe layered double hydroxide composites as an efficient solid phase extraction sorbent for HPLC- PDA monitoring of parabens in personal care products	Grover A., Mohiuddin I., Malik A.K., Aulakh J.S., Kukkar D., Kim KH.	Chemosph	128429	2021	264	-	Co-author	8.943	0045-6535
183	Starch-Mg/Al layered double hydroxide composites as an efficient solid phase extraction sorbent for non-steroidal anti-inflammatory drugs as environmental	Mohiuddin I., Grover A., Aulakh J.S., Malik A.K., Lee S.S., Brown R.J.C., Kim KH.	Journal of Hazardous Materials	123782	2021	401	-	Co-author	14.224	0304-3894

	pollutants									
182	A Comprehensive Review on Metal Organic Framework Based Preconcentration Strategies for Chromatographic Analysis of Organic Pollutants	Verma R., Dhingra G, Malik A.K.	Critical Reviews in Analytical Chemistry	1-27	2021	-	-	Corresponding	6.535	1547-6510
181	Core-shell structured molecularly imprinted materials for sensing applications	Bhogal S., Kaur K., Malik A.K., Sonne C., Lee S.S., Kim KH.	TrAC - Trends in Analytical Chemistry	116043	2020	133	-	Co-author	14.908	0165-9936
180	Trace determination of parabens in cosmetics and personal care products using fabric-phase sorptive extraction and high-performance liquid chromatography with UV detection	Kaur R., Heena, Kaur R., Grover A., Rani S., Malik A.K., Kabir A., Furton K.G	Journal of Separation Science	2626- 2635	2020	43	13	Corresponding	3.645	1615-9306
179	Mineralogy, chemistry, and composition of organic compounds in the fresh carbonaceous chondrite Mukundpura: CM1 or CM2?	Potin S., Beck P., Bonal L., Schmitt B., Garenne A., Moynier F., Agranier A., Schmitt-Kopplin P., Malik A.K., Quirico E.	Meteoritic s and Planetary Science	1681- 1696	2020	55	7	Co-author	2.487	1086-9379
178	Efficient Recognition and Determination of Carbamazepine and Oxcarbazepine in Aqueous and Biological Samples by Molecularly Imprinted Polymers	Irshad Mohiuddin, Malik A.K., Aulakh J.S.	Journal of Analytical Chemistry	717-725	2020	75	6	Co-author	1.237	0253-3820
177	Search for non-acidic ALR2 inhibitors: Evaluation of flavones as targeted agents for	Vyas B., Choudhary S., Singh P.K., Kumar M., Verma H., Singh M., Malik A.K., Silakari O.	Bioorgani c Chemistry	103570	2020	96	-	Corresponding	5.307	0045-2068

	the management of diabetic complications									
176	Porous molecularly- imprinted polymer for detecting diclofenac in aqueous pharmaceutical compounds	Mohiuddin I., Grover A., Aulakh J.S., Lee SS., Malik A.K., Kim KH.	Chemical Engineeri ng Journal	123002	2020	382	-	Co-author	16.744	1385-8947
175	Experimental and theoretical studies of the schiff base (Z)-1- (thiophen-2-yl-methyleneamino) propane-2-ol	Berhanu A.L., Sharma N., Mohiuddin I., Malik A.K., Aulakh J.S., Lee J., Kim KH.	Journal of Molecular Structure	127104	2020	120	-	Co-author	3.841	0022-2860
174	Zn-Al layered double hydroxides intercalated with surfactant: Synthesis and applications for efficient removal of organic dyes	Grover A., Mohiuddin I., Malik A.K., Aulakh J.S., Kim KH.	Journal of Cleaner Productio n	118090	2019	240	-	Co-author	11.072	0959-6526
173	One-pot three- component synthesis of α-amino nitriles using ZnO as a heterogeneous, reusable, and eco- friendly catalyst	Kaur B., Chand S., Malik A.K., Dhaliwal K.S., Younis S.A., Kim KH.	Journal of Cleaner Productio n	329-339	2019	234	-	Corresponding	11.072	0959-6526
172	Surfactant-modified Zn/Al-layered double hydroxides for efficient extraction of alkyl phenols from aqueous samples	Grover A., Kaur R., Mohiuddin I., Malik A.K., Aulakh J.S., Tsang Y.F., Kim KH.	Environm ental Research	108605	2019	177	-	Co-author	8.431	0013-9351
171	Advances in colorimetric and optical sensing for gaseous volatile organic compounds	Azzouz A., Kumar V., Kim KH., Ballesteros E., Rhadfi T., Malik A.K.	TrAC - Trends in Analytical Chemistry	502-516	2019	118	-	Co-author	14.908	0165-9936
170	Preparation and evaluation of a porous molecularly imprinted	Mohiuddin I., Berhanu A.L., Malik A.K., Aulakh J.S., Lee J., Kim KH.	Environm ental Research	108580	2019	176	-	Co-author	8.431	0013-9351

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	polymer for selective recognition of the									
	antiepileptic drug									
	carbamazepine									
169	A review of the	Berhanu A.L., Gaurav, Mohiuddin	TrAC -	74-91	2019	116	-	Co-author	14.908	0165-9936
	applications of Schiff	I., Malik A.K., Aulakh J.S.,	Trends in							
	bases as optical	Kumar V., Kim KH.	Analytical							
	chemical sensors		Chemistry							
168	Fabric phase sorptive	Kaur R., Kaur R., Grover A., Rani	Journal of	2407-	2019	42	14	Corresponding	3.645	1615-9306
	extraction/GC-MS	S., Malik A.K., Kabir A., Furton	Separation	2417						
	method for rapid	K.G.	Science							
	determination of broad									
	polarity spectrum multi-class emerging									
	pollutants in various									
	aqueous samples									
167	Determination of	Kaur B., Kumar R., Chand S.,	Spectrochi	261-268	2019	214	-	Corresponding	4.831	1386-1425
	norfloxacin in urine	Singh K., Malik A.K.	mica Acta					1 2		
	and pharmaceutical		- Part A:							
	samples using terbium		Molecular							
	doped zinc sulphide		and							
	nanomaterials-		Biomolec							
	sensitized fluorescence method		ular							
	method		Spectrosc opy							
166	Fabric phase sorptive	Ramandeep Kaur, Ripneel Kaur,	Journal of	2407-	2019	42	14	Corresponding	3.645	1615-9306
100	extraction/GC-MS	Aman Grover, Susheela Rani,	separation	2417	2017		1	Conceptions		1012 7200
	method for rapid	Ashok Kumar Malik, Abuzar	science							
	determination of broad	Kabir, and Kenneth G. Furton.								
	polarity spectrum									
	multi-class emerging									
	pollutants in various									
165	aqueous samples. Fabrication of Zn (II)	Karamjeet Kaur, Jatinder Singh	Journal of	134-142	2019	74	2	Co-author	1.237	0253-3820
105	Selective Polyvinyl	Aulakh, and Ashok Kumar Malik.	Analytical	134-142	2019	/4	2	Co-autnor	1.23/	0233-3820
	Chloride Membrane	Zidiakii, and Zishok ixumai ividiik.	Chemistry							
	Electrode based on N,		Chemisary							
	N'-bis (1-									
	hydroxynaphthalene-2-									
	carbaldehyde)-o-									
	phenylenediamine as									
	an Ionophore:									

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	Experimental and									
	Theoretical									
	Approaches.									
164	Detoxification of dye	Kaur B., Chand S., Singh K.,	Bulletin of	42-61	2019	42	2	Corresponding	1.878	0250-4707
	contaminated water by	Malik A.K.	Materials							
	Mn2+-doped ZnS		Science							
	nanostructures									
163	Application of fabric	Kaur R., Kaur R., Rani S., Malik	Journal of	862-870	2019	42	4	Corresponding	3.645	1615-9306
	phase sorptive	A.K., Kabir A., Furton K.G.	Separation							
	extraction with gas		Science							
	chromatography and									
	mass spectrometry for									
	the determination of									
	organophosphorus									
	pesticides in selected									
	vegetable samples									
162	Fabrication of Zn(II)	Karamjeet Kaur, Aulakh J.S.,	Journal of	134-142	2019	74	2	Co-author	1.237	0253-3820
	Selective Polyvinyl	Malik A.K.	Analytical							
	Chloride Membrane		Chemistry							
	Electrode based on									
	N,N'-bis(1-									
	hydroxynaphthalene-2-									
	carbaldehyde)-o-									
	phenylenediamine as									
	an Ionophore:									
	Experimental and									
	Theoretical									
	Approaches									
161	Surface Molecularly	Bhogal S., Kaur K., Maheshwari	Journal of	145-154	2019	29	1	Corresponding	2.217	1053-0509
	Imprinted Carbon Dots	S., Malik A.K.	Fluoresce							
	Based Core-Shell		nce							
	Material for Selective									
	Fluorescence Sensing									
	of Ketoprofen									
160	Rapid monitoring of	Kaur R., Kaur R., Rani S., Malik	Molecules	1013	2019	24	6	Corresponding	4.927	N/A
	organochlorine	A.K., Kabir A., Furton K.G.,								
	pesticide residues in	Samanidou V.F.								
	various fruit juices and									
	water samples using									
	fabric phase sorptive									
	extraction and gas									
	chromatography-mass									

	spectrometry									
159	Morphological and Photo-catalytic Behavior of Ce doped ZnS	Balwinder Kaur, Subhash Chand, Karamjit Singh , Ashok Kumar Malik	Nanomate rial research	-	2019	-	-	Corresponding	4.921	2079-4991
158	Identification of 2- benzoxazolinone derivatives as lead against molecular targets of diabetic complications	Vyas B., Choudhary S., Singh P.K., Singh B., Bahadur R., Malik A.K., Silakari O.	Chemical Biology and Drug Design	1981- 1987	2018	92	6	Corresponding	2.817	1747-0277
157	Chemiluminescence	Rekhi H., Kaur R., Malik A.K.	Advances in Animal Biotechno logy and its Applicatio ns	383-401	2018	-	-	Corresponding	N/A	N/A
156	Direct rapid determination of trace aluminum in various water samples with quercetin by reverse phase high-performance liquid chromatography based on fabric phase sorptive extraction technique	Rekhi H., Kaur R., Rani S., Malik A.K., Kabir A., Furton K.G.	Journal of Chromato graphic Science	452-460	2018	56	5	Corresponding	1.555	0021-9665
155	Identification of 2-benzoxazolinone derivatives as lead against molecular targets of diabetic complications	Bhawna Vyas, Shalki Choudhary, Pankaj Kumar Singh, Baldev Singh, Renu Bahadur, Ashok Kumar Malik, and Om Silakari.	Chemical Biology & Drug Design	1981- 1987	2018	92	6	Corresponding	2.817	1747-0277
154	Development of a microextraction by packed sorbent with gas chromatographymass spectrometry method for quantification of	Dhingra G., Bansal P., Dhingra N., Rani S., Malik A.K.	Journal of Separation Science	639-647	2018	41	3	Corresponding	3.645	1615-9306

	T		1		ı	1	ı	Т		
	nitroexplosives in									
	aqueous and fluidic									
	biological samples									
153	A Review on Recent	Rekhi H., Rani S., Sharma N.,	Critical	524-537	2017	47	6	Corresponding	3.645	1615-9306
	Applications of High-	Malik A.K.	Reviews							
	Performance Liquid		in							
	Chromatography in		Analytical							
	Metal Determination		Chemistry							
	and Speciation		_							
	Analysis									
152	Effect of ligands on	Kaur B., Singh K., Malik A.K.	Dyes and	153-160	2017	142	-	Corresponding	5.122	0143-7208
	crystallography,	, ,	Pigments					1 0		
	morphology and									
	photo-catalytic ability									
	of ZnS nanostructures									
151	A study on effect of	Balwinder Kaur, Karamjit Singh,	Research	13-19	2017	6	6	Corresponding	0.675	2277 - 2502
	ligand on	Ashok Kumar Malik	Journal of							
	crystallography,		Recent							
	morphology and		Sciences							
	photo-catalytic ability									
	of ZnS nanostructures									
150	A novel protocol to	Saini, S.S., Kabir, A., Rao, A.L.J.,	Separation	22	2017	4	2	Corresponding	N/A	22978739
	monitor trace levels of	Malik, A.K. and Furton, K.G.	s							
	selected polycyclic									
	aromatic hydrocarbons									
	in environmental water									
	using fabric phase									
	sorptive extraction									
	followed by high									
	performance liquid									
	chromatography-									
	fluorescence detection									
149	Flavonoids	Singh B., Kumar A., Malik A.K.	Electroph	820-832	2017	38	6	Corresponding	3.535	0173-0835
	biosynthesis in plants		oresis						1	
	and its further analysis									
	by capillary									
	electrophoresis									
148	Precursor dependent	Kaur B., Singh K., Malik A.K.	Dyes and	352-359	2017	137		Corresponding	5.122	0143-7208
	morphological and		Pigments							
	photo-catalytic		_						1	
	behaviour of CdS								1	
	nanostructures									

1.45		T	α	01.00	2015			I a	0.500	01.40. 620.7
147	Determination of	Heena, Kaur R., Rani S., Malik	Separation	81-90	2017	52	1	Corresponding	2.799	0149-6395
	cobalt(II), nickel(II)	A.K., Kabir A., Furton K.G.	Science and							
	and palladium(II) Ions									
	via fabric phase		Technolog							
	sorptive extraction in		y							
	combination with		(Philadelp							
	high-performance		hia)							
	liquid									
	chromatography-UV									
1.16	detection		D1 1	250 275	2015	102		G 1'	1.002	27/4
146	FT-IR, NMR,	Sharma N., Dhau J.S., Singh A.,	Phosphoru	368-375	2017	192	3	Corresponding	1.082	N/A
	molecular structure,	Singh A., Malik A.K.	s, Sulfur							
	and HOMO-LUMO		and							
	studies of 3,5-		Silicon							
	dimethyl-2-		and the							
	pyridylselenium		Related							
	compounds by density		Elements							
1.45	functional theory	D ' C MI'I AR R	G ::: 1	10.1.110	2016	1.0	_	C 1:	2.645	1617 0206
145	A Review for the	Rani S., Malik A.K., Kaur R.,	Critical	424-442	2016	46	5	Corresponding	3.645	1615-9306
	Analysis of	Kaur R.	Reviews							
	Antidepressant,		in ^ 1 4 : 1							
	Antiepileptic and		Analytical							
	Quinolone Type Drugs in Pharmaceuticals and		Chemistry							
	Environmental									
144	Samples Simple and rapid	Kaur R., Heena, Kaur R., Rani S.,	Journal of	923-931	2016	39	5	Companyanding	3.645	1615-9306
144	Simple and rapid determination of	Malik A.K.	Separation	923-931	2010	39	3	Corresponding	3.043	1013-9300
	phthalates using	Walik A.K.	Science							
			Science							
	microextraction by packed sorbent and gas									
	chromatography with									
	mass spectrometry									
	quantification in cold									
	drink and cosmetic									
]	samples]			
143	Capillary	Malik A.K., Aulakh J.S., Kaur V.	Methods	407-435	2016	148	_	Corresponding	1.167	1940-6029
143	electrophoretic	1124111 2 1.12., 2 1414111 3.5., 12441 V.	in	107 433	2010	3		Corresponding	1.107	1710 0027
	analysis of classical		Molecular			3				
	organic pollutants		Biology							
142	Importance and	Heena, Irshad Mohiuddin, Ashok	Internatio	58-62	2016	4	6	Corresponding	1.5	2278-2540
172	various challenges of		nal journal	30 02	2010	-		Corresponding	1.5	22,023,0
	ranous chancinges of	IXMINI ITIMIN	mai journai				L	ı	l .	l

	trace metal speciation in environment system		of engineerin g, technolog y, managem ent and applied sciences							
141	Simple and rapid determination of Phthalates using microextraction by packed sorbent and GCMS quantification in cold drink and cosmetic samples	Ramandeep Kaur, Heena, Ripneel Kaur, Susheela Rani and Ashok Kumar Malik	Journal of Separation Science	923–931	2016	39	5	Corresponding	3.645	1615-9306
140	FT-IR, NMR, Molecular structure and HOMO-LUMO Studies of 3,5- Dimethyl-2- pyridylselenium Compounds by Density Functional Theory	Neha Sharma, Jaspreet S. Dhau, Avtar Singh, Amritpal Singh & Ashok Kumar Malik	Phosphoru s, Sulfur, And Silicon And The Related Elements	368-375	2016	192	3	Co-author	1.082	N/A
139	Metal ions analysis with capillary zone electrophoresis	Malik A.K., Aulakh J.S., Kaur V.	Methods in Molecular Biology	217-247	2016	148 3	-	Corresponding	1.167	1940-6029
138	Analysis of small ions with capillary electrophoresis	Aulakh J.S., Kaur R., Malik A.K.	Methods in Molecular Biology	197-216	2016	148	-	Corresponding	1.167	1940-6029
137	Antidepressants: A rising tide of concern	Mohiuddin I., Kaur R., Rekhi H., Aulakh J.S., Malik A.K.	Antidepre ssants: Perspectiv es, Medical Uses and Health Implicatio	-	2016	1	27	Co-author	N/A	N/A

			ns							
136	Spectroscopy: Types	Malik A.K., Kumar R., Heena	Encyclope dia of Food and Health	72	2015	64	-	Corresponding	N/A	N/A
135	Development of a very rapid and sensitive method for the determination of Aluminium as Aluminium 8-Hydroxyquinoline-5-sulfonic acid complex by High Pressure Liquid Chromatography	Heena, Rajesh Kumar and Ashok Kumar Malik	Journal of Chromato graphic Science	800-806	2015	53	5	Corresponding	1.555	0021-9665
134	A miniaturised analytical protocol for highly sensitive determination of bisphenol A in bottled drinking water	Saini S.S., Rao A.L.J., Singh B., Malik A.K.	Analytical Methods	9365- 9372	2015	7	21	Corresponding	3.532	1759-9660
133	Development of fabric phase sorptive extraction-high performance liquid chromatography-ultravoilet method for analysis of alkylphenols and application to aqueous and soil samples	Rajesh Kumar, Gaurav, Abuzar Kabir, Kenneth G. Furton, Ashok Kumar Malik	Journal of Separation Science	3228- 3238	2015	38	18	Corresponding	3.645	1615-9306
132	Development of a fabric phase sorptive extraction with high-performance liquid chromatography and ultraviolet detection method for the analysis of alkyl phenols in environmental samples	Kumar R., Gaurav, Kabir A., Furton K.G., Malik A.K.	Journal of Separation Science	3228- 3238	2015	38	18	Corresponding	3.645	1615-9306

131	Development of a rapid and sensitive method for the determination of aluminum by reversephase highperformance liquid chromatography using a fluorescence detector	Heena, Kumar R., Rani S., Malik A.K.	Journal of Chromato graphic Science	800-806	2015	53	5	Corresponding	1.555	0021-9665
130	GC/MS analysis of volatile compounds of the essential oil of leaves of Ocimum sanctum growing in Hisar, India	Suthar S.K., Malik A.K.	Asian Journal of Chemistry	3135- 3136	2015	27	8	Corresponding	0.49	9707077
129	Microextraction by packed sorbent-high-pressure liquid chromatographic-ultra violet analysis of endocrine disruptor pesticides in various matrices	Kaur M., Rani S., Malik A.K., Aulakh J.S.	Journal of Chromato graphic Science	977-984	2014	52	9	Corresponding	1.555	0021-9665
128	Efficient analysis of selected estrogens using fabric phase sorptive extraction and high performance liquid chromatography-fluorescence detection	Kumar R., Gaurav, Heena, Malik A.K., Kabir A., Furton K.G.	Journal of Chromato graphy A	16-25	2014	135 9	-	Corresponding	4.601	0021-9673
127	Recent progress, challenges and prospects in monitoring plastic-derived xenoestrogens using molecularly imprinted sorbents	Narula P., Singh R., Kaur V., Malik A.K.	Chromato graphia	207-221	2014	77	3-4	Corresponding	2.213	0009-5893
126	Recent Advances in Sample Preparation Methods for Analysis of Endocrine	Singh B., Kumar A., Malik A.K.	Critical Reviews in Analytical	255-269	2014	44	3	Corresponding	3.645	1615-9306

	Disruptors from		Chemistry							
	Various Matrices									
125	Determination of endosulfan isomers and their metabolites in tap water and commercial samples using microextraction by packed sorbent and GC-MS	Kaur R., Rani S., Malik A.K., Aulakh J.S.	Journal of Separation Science	966-973	2014	37	8	Corresponding	3.645	1615-9306
124	Study on the fluorescence quenching reaction of amitriptyline and clomipramine hydrochlorides with eosin y and its analytical application	Kaur K., Malik A.K.	Journal of Fluoresce nce	533-542	2013	23	3	Corresponding	2.217	1053-0509
123	Development of a fast capillary electrophoresis-time-of-flight mass spectrometry method for the speciation of organotin compounds under separation conditions of high electrical field strengths	Malik A.K., Grundmann M., Matysik FM.	Talanta	559-562	2013	116	3	Corresponding	6.556	0039-9140
122	Metal Speciation	Malik A.K., Kaur V., Kumar S.	Chemical Analysis of Food: Technique s and Applicatio ns	755	2012	715	-	Corresponding	N/A	N/A
121	A novel microextraction by packed sorbent-gas chromatography procedure for the simultaneous analysis	Rani S., Malik A.K.	Journal of Separation Science	2970	2012	35	21	Corresponding	3.645	1615-9306

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	of antiepileptic drugs									
	in human plasma and									
	urine									
120	Micelle enhanced and	Kaur K., Saini S.S., Malik A.K.,	Spectrochi	790-795	2012	96	-	Corresponding	4.831	1386-1425
	terbium sensitized	Singh B.	mica Acta							
	spectrofluorimetric	S	- Part A:							
	determination of		Molecular							
	danofloxacin in milk		and							
	using molecularly		Biomolec							
	imprinted solid phase		ular							
	extraction		Spectrosc							
	catteeton		opy							
119	Highly sensitive	Kaur K., Saini S., Singh B., Malik	Journal of	1407-	2012	22	5	Corresponding	2.217	1053-0509
117	synchronous	A.K.	Fluoresce	1413	2012	22	3	Corresponding	2.217	1033-0307
	fluorescence	A.K.	nce	1415						
	measurement of		nce							
	danofloxacin in									
	pharmaceutical and									
	-									
	milk samples using aluminium (III)									
110	enhanced fluorescence	D I D C C N'II' N	CI.	720 745	2012	7.5	10.14	G 1:	2.212	0000 5002
118	Liquid	Bansal P., Gaurav G., Nidhi N.,	Chromato	739-745	2012	75	13-14	Corresponding	2.213	0009-5893
	chromatographic	Malik A.K., Matysik FM.	graphia							
	determination of 1,3,5-									
	trinitroperhydro-1,3,5-									
	triazine and 2,4,6-									
	trinitrotoluene in									
	human plasma and									
	groundwater samples									
	utilizing									
	microextraction in									
	packed syringe									
117	Simultaneous	Kaur K., Malik A.K., Singh B.,	Thai	43-54	2012	36	2	Corresponding	0.619	1905-4637
	spectrophotometric	Godarzi M.	Journal of							
	determination of		Pharmace							
	difloxacin and		utical							
	enrofloxacin in urine		Sciences						1	
	samples by partial								1	
	least squares									
	regression (PLS) and									
	direct orthogonal								1	
1	signal correction-									

	partial least squares regression (DOSC- PLS) methods									
116	Antidepressants: Pharmacology, health effects and controversy	Preetpal, Rani S., Malik A.K., Aulakh J.S.	Nova Science Publishers Inc; UK ed. edition	76	2012	49	-	Corresponding	N/A	N/A
115	Novel micro- extraction by packed sorbent procedure for the liquid chromatographic analysis of antiepileptic drugs in human plasma and urine	Rani S., Malik A.K., Singh B.	Journal of Separation Science	359	2012	35	3	Corresponding	3.645	1615-9306
114	Preconcentration method on modified silica fiber for chromium speciation	Chahal V.K., Singh R., Malik A.K., Matysik FM., Puri J.K.	Journal of Chromato graphic Science	26-32	2012	50	1	Corresponding	1.555	0021-9665
113	Liquid chromatographic determination of quinolones in water and human urine samples after microextraction by packed sorbent	Rani S., Kumar A., Malik A.K., Singh B.	Journal of AOAC Internatio nal	261-267	2012	95	1	Corresponding	2.028	1060-3271
112	Determination of phenylurea herbicides in tap water and soft drink samples by HPLC-UV and solid-phase extraction	Kaur M., Malik A.K., Singh B.	LC GC Europe	338–347	2012	29	4	Corresponding	0.914	1471-6577
111	Quantification of tricyclic and nontricyclic antidepressants in spiked plasma and urine samples using	Rani S., Kumar A., Malik A.K., Singh B.	Chromato graphia	235-242	2011	74	3	Corresponding	2.213	0009-5893

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	microextraction in									
	packed syringe and									
	analysis by LC and									
	GC-MS						_			
110	Occurrence of N-Acyl	Susheela Rani, Ashok Kumar	American	294-302	2011	2	2	Corresponding	0.89	2156-8278
	Homoserine Lactones	Malik, Baldev Singh	Journal of							
	in Extracts of Bacterial		Analytical							
	Strain of Pseudomonas		Chemistry							
	aeruginosa and in									
	Sputum Sample									
	Evaluated by Gas									
	Chromatography-									
	Mass Spectrometry									
109	Chemiluminescence	Kaur K., Singh B., Malik A.K.	Analytical	1602-	2011	44	9	Corresponding	2.267	0003-2719
	and		Letters	1639						
	spectrofluorimetric									
	methods for									
	determination of									
	fluoroquinolones: A									
	review									
108	Microextraction in	Susheela Rani, Ashwini Kumar,	Chromato	235-242	2011	73	4	Corresponding	2.213	0009-5893
	Packed Syringes/GC-	Ashok Kumar Malik, Baldev	graphia							
	MS/HPLC-UV for	Singh								
	quantification of	_								
	tricyclic and									
	nontricyclic									
	antidepressants in									
	blood, urine and water									
	samples									
107	Novel Micro-	Susheela Rani, Ashok Kumar	Journal of	359–366	2011	35	3	Corresponding	3.645	1615-9306
	Extraction by Packed	Malik, Baldev Singh	Separation							
	Sorbent Procedure for		Science							
	the Liquid									
	Chromatographic									
	Analysis of									
	Antiepileptic Drugs in									
	Human Plasma and									
	Urine									
106	Determination of	Kumar A., Burns J., Hoffmann	Electroph	920-925	2011	32	8	Co-author	3.535	0173-0835
	hydrazines by chip	W., Demattio H., Malik A.K.,	oresis							
	electrophoresis with	Matysik FM.								
	contactless									
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	conductivity detection									
105	Combination of headspace single-drop microextraction, microchip electrophoresis and contactless conductivity detection for the determination of aliphatic amines in the biodegradation process of seafood samples	Mark J.J.P., Kumar A., Demattio H., Hoffmann W., Malik A., Matysik FM.	Electroana lysis	161-168	2011	23	1	Corresponding	3.077	1040-0397
104	Determination of phenylurea herbicides in tap water and soft drink samples by HPLC-UV and solid-phase extraction	Kaur M., Malik A.K., Singh B.	LCGC North America	338–347	2011	29	4	Corresponding	0.344	15275949
103	Synthesis, characterization and structural aspects of 3- azidopropylsilatrane	Singh R., Puri J.K., Pal Sharma R., Kumar Malik A., Ferretti V.	Journal of Molecular Structure	107-112	2010	982	1-3	Corresponding	3.841	0022-2860
102	Capillary electrophoresis-Mass spectrophotometry, UV/Visisble for the determination of pesticides.	Ashok Kumar Malik , Ashwini Kumar and Yolanda Picó	Electroph oresis	2115- 2125	2010	31	13	Corresponding	3.535	0173-0835
101	Speciation of Cr(III) and Cr(VI) as morpholine-4-carbodithioate complex by using HPLC-PDA system after preconcentration on modified silica fiber	Varinder Kaur Chahal, Raghubir Singh, Ashok Kumar Malik, F M. Matysik and J. K. Puri	Journal of Chromato graphic Science	26–32	2010	50	1	Corresponding	1.555	0021-9665
100	Sample preparation methods for the determination of pesticides in foods	Kumar A., Malik A.K., Picó Y.	Electroph oresis	2115- 2125	2010	31	13	Corresponding	3.535	0173-0835

	using CE-UV/MS									
99	Liquid chromatography-mass spectrometry in food safety	Malik A.K., Blasco C., Picó Y.	Journal of Chromato graphy A	4018- 4040	2010	121 7	25	Corresponding	4.601	0021-9673
98	Simultaneous determination of Cu(II) and Pd(II) as 4- phenylpiperazinecarbo dithioate complex using H-point standard addition method and derivative spectrophotometry	Kaur V., Malik A.K., Verma N.	Turkish Journal of Chemistry	295-305	2010	34	2	Co-author	1.151	1300-0527
97	Liquid Chromatography – mass spectrometry in Food safety – A review	Ashok Kumar Malik, Cristina Blasco, Yolanda Picó	Journal of Chromato hraphy A	4018- 4040	2010	121 7	25	Co-author	4.601	0021-9673
96	Amines in the environment	Fekete A., Malik A.K., Kumar A., Schmitt-Kopplin P.	Critical Reviews in Analytical Chemistry	102-121	2010	40	2	Co-author	3.645	1615-9306
95	Micelle enhanced spectrofluorimetric method for the determination of ofloxacin and lomefloxacin in human urine and serum	Kaur K., Singh B., Malik A.K.	Thai Journal of Pharmace utical Sciences	58-66	2010	34	2	Corresponding	0.619	1905-4637
94	Development of a new SPME-HPLC-UV method for the analysis of nitro explosives on reverse phase amide column and application to analysis of aqueous samples	Gaurav, Malik A.K., Rai P.K.	Journal of Hazardous Materials	1652- 1658	2009	172	2-3	Corresponding	14.224	0304-3894
93	Simultaneous spectrophotometric determination of	Kaur K., Malik A.K., Singh B., Godarzi M.	Thai Journal of Pharmace	123-136	2009	33	4	Corresponding	0.619	1905-4637

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Azadirachtin from Neem tree parts and its determination in fruit, vegetable and tea											
Neem tree parts and its determination in fruit, vegetable and tea	88				25-35	2009	1	N/A	Corresponding	N/A	N/A
determination in fruit, vegetable and tea		Azadirachtin from		Science							
determination in fruit, vegetable and tea		Neem tree parts and its	Singh.								
vegetable and tea											
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I SAMOLO USINE DONG I		samples using Solid									
Learnies using Noted		vegetable and tea									

	1									
	phase extraction-High									
	Performance Liquid									
	Chromatography-Ultra									
	violet Visible									
87	A new method for	Kumar A., Malik A.K., Tewary	Analytica	177-181	2009	631	2	Corresponding	6.911	0003-2670
	determination of	D.K.	Chimica							
	myricetin and		Acta							
	quercetin using solid									
	phase microextraction-									
	high performance									
	liquid									
	chromatography-ultra									
	violet/visible system in									
	grapes, vegetables and									
	red wine samples									
86	Speciation of	Kaur V., Malik A.K.	Journal of	238-242	2009	47	3	Corresponding	1.555	0021-9665
	chromium metal ions	ixaui v., Mank ix.ix.	Chromato	230-242	200)	77	3	Corresponding	1.555	0021-7003
	by RP-HPLC		graphic							
	by Ki -III Le		Science							
85	A new method for the	Ashwini Kumar, Ashok Kumar	Analytica	177-181	2009	631		Corresponding	6.911	0003-2670
0.5	determination	Malik Dhananjay Kumar Tewary	Chimica	1//-101	2009	031		Corresponding	0.911	0003-2070
	myricetin and	Mank Dhananjay Kumai Tewaiy	Acta							
	quercetin using solid		Acta							
	phase microextraction-									
	ultra violet visible									
	vegetable and red wine									
0.4	samples.	77 36 77 37 36 11 4 77	T 1 C	002 000	2000	20	-	C 1'	2.125	0102 5052
84	Development of a	Kaur M., Kaur V., Malik A.K.,	Journal of	993-998	2009	20	5	Corresponding	2.135	0103-5053
	derivative	Verma N., Singha B., Rao A.L.J.	the							
	spectrophotometric		Brazilian							
	method for the		Chemical							
	determination of		Society							
	fungicide zinc									
	ethylenebisdithiocarba									
	mate using sodium									
	molybdate									
83	SPME analysis of	Ashwini Kumar, Gaurav, Ashok	Analytical	35-55	2009	1	1	Corresponding	4.01	16182642
	biological samples	Kumar Malik, Frank-Michael	and							
	using solid-phase	Matysik	Bioanalyti							
	microextraction.		cal							
			Reviews							

82	Solid Phase Micro Extraction-High Pressure Liquid Chromatography (SPME-HPLC-UV) analysis of hydoxy- alkyl-quinolones	Ashwini Kumar, Agnes Fekete, Francois Leipine, Ashok Kumar Malik, Ph. Schmitt- Kopplin	Separation Science	38	2009	1	1	Corresponding	N/A	N/A
81	Separation of the phenoxy acid herbicides and their enantiomers by capillary zone electrophoresis in presence of highly sulphated cyclodextrins	Malik A.K., Aulakh J.S., Fekete A., Philippe S.K.	Journal of the Chinese Chemical Society	1163- 1167	2009	56	6	Corresponding	1.753	0009-4536
80	Solid phase microextraction-high performance liquid chromatographic determination of octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX) and Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX) in the presence of sodium dodecyl sulfate surfactant	Gaurav, Malik A.K., Rai P.K.	Journal of Separation Science	2173- 2181	2008	31	12	Corresponding	3.645	1615-9306
79	A review on development of solid phase microextraction fibers by sol-gel methods and their applications	Kumar A., Gaurav, Malik A.K., Tewary D.K., Singh B.	Analytica Chimica Acta	14-Jan	2008	610	1	Corresponding	6.911	0003-2670
78	Gradient HPLC of antibiotics in urine, ground water, chicken muscle, hospital wastewater, and pharmaceutical samples using C-18	Kumar A., Malik A.K., Tewary D.K., Singh B.	Journal of Separation Science	294-300	2008	31	2	Corresponding	3.645	1615-9306

	and RP-amide columns									
77	RDX in the Presence of SDS and its Application to Environmental Samples	Gaurav, Ashok Kumar Malik and P.K. Rai	Journal of Chromato graphic Science	609-614	2008	46	7	Corresponding	1.555	0021-9665
76	Gradient High Pressure Liquid Chromatography - UV analysis of ofloxacin, lomefloxacin, cinoxacin and nalidixic acid in urine, ground water and pharmaceutical sample using C-18 and RP- Amide columns	Ashwini Kumar, Ashok Kumar Malik and Baldev Singh	Journal of Separation Science	294-300	2008	31	2	Corresponding	3.645	1615-9306
75	Spectrophotometric methods for the determination of fluoroquinolones: A review	Kaur K., Kumar A., Malik A.K., Singh B., Rao A.L.J.	Critical Reviews in Analytical Chemistry	2-18	2008	38	1	Corresponding	3.645	1615-9306
74	Metal analysis with capillary zone electrophoresis.	Malik A.K.	Methods in molecular biology (Clifton, N.J.)	21-42	2008	384	N/A	Corresponding	1.167	1940-6029
73	Capillary electrophoretic analysis of organic pollutants.	Malik A.K., Aulakh J.S., Kaur V.	Methods in molecular biology (Clifton, N.J.)	93-118	2008	384	N/A	Corresponding	1.167	1940-6029
72	Solid Phase Microextraction-High Pressure Liquid Solid Phase Microextraction-High Pressure Liquid Chromatographic analysis of	Ashwini Kumar, Gaurav, D.K. Tewary and Ashok Kumar Malik	Journal of AOAC Internatio nal	1339- 1343	2008	91	6	Corresponding	2.028	1060-3271

	T		1	1	1		1		1	
	Norfloxacin and									
	Enrofloxacin in Urine									
	Sample									
71	Enhanced extraction of	Gaurav, Malik A.K., Rai P.K.	Journal of	609-614	2008	46	7	Corresponding	1.555	0021-9665
	octahydro-1,3,5,7-		Chromato							
	tetranitro-1,3,5,7-		graphic							
	tetrazocine (HMX) and		Science							
	hexahydro-1,3,5-									
	trinitro-1,3,5-triazine									
	(RDX) in the presence									
	of sodium dodecyl									
	sulphate and its									
	application to									
	environmental samples									
70	Determination of	Kumar A., Dhingra G., Malik	Journal of	1339-	2008	91	6	Corresponding	2.028	1060-3271
	norfloxacin and	A.K., Tewary D.K.	AOAC	1343						
	enrofloxacin by solid-		Internatio							
	phase		nal							
	microextraction/high-									
	performance liquid									
	chromatography									
69	A new approach for	Kaur V., Aulakh J.S., Malik A.K.	Analytica	44-50	2007	603	1	Corresponding	6.911	0003-2670
	simultaneous		Chimica							
	determination of		Acta							
	Co(II), Ni(II), Cu(II)									
	and Pd(II) using 2-									
	thiophenaldehyde-3-									
	thiosemicarbazone as									
	reagent by solid phase									
	microextraction-high									
	performance liquid									
	chromatography									
68	Determination of quats	Aulakh J.S., Fekete A., Malik	Annali di	1157-	2007	97	11-12	Corresponding	8.471	0003-4592.
	in beverages and urine	A.K., Schmitt-Kopplin, Mahajan	Chimica	1167						
	samples by capillary	R.K.								
	zone eletrophoresis									
67	Development of solid	Kaur V., Malik A.K.	Annali di	1279-	2007	97	11-12	Corresponding	8.471	0003-4592.
	phase microextraction-		Chimica	1290						
	high performance									
	liquid									
	chromatographic									
	method for the									

	T		1	1	П	1	1	1	1	1
	determination of									
	copper(II) in									
	environmental samples									
	using morpholine-4-									
	carbodithioate									
66	High-performance	Gaurav D., Malik A.K., Rai P.K.	Critical	227-268	2007	37	4	Corresponding	3.645	1615-9306
	liquid		Reviews							
	chromatographic		in							
	methods for the		Analytical							
	analysis of explosives		Chemistry							
65	A new method for	Kaur V., Malik A.K.	Talanta	425-430	2007	73	3	Corresponding	6.556	0039-9140
	simultaneous	•								
	determination of									
	Co(II), Ni(II) and									
	Pd(II) as morpholine-									
	4-carbodithioate									
	complex by SPME-									
	HPLC-UV system									
64	Derivative	Kaur V., Malik A.K., Verma N.,	Indian	1432-	2007	46	9	Corresponding	N/A	9750975
0.	spectrophotometry for	Rao A.L.J.	Journal of	1436	2007			Corresponding	1,712	7,007,0
	determination of	Tuo T.E.S.	Chemistry	1130						
	zinc(II) and		- Section							
	cadmium(II) using		A							
	diphenylcarbazone in		Inorganic,							
	presence of Triton X-		Physical,							
	100		Theoretica							
	100		1 and							
			Analytical							
			Chemistry							
63	SPME-HPLC: A new	Gaurav, Kaur V., Kumar A., Malik	Journal of	691-697	2007	147	3	Corresponding	14.224	0304-3894
0.5	approach to the	A.K., Rai P.K.	Hazardous	071-077	2007	17,	,	Corresponding	17.227	0304-3074
	analysis of explosives	11.11., IXII 1.1X.	Materials							
62	Derivative	Kaur V., Malik A.K., Verma N.	Analytical	2360-	2007	40	12	Corresponding	2.267	0003-2719
02	spectrophotometric	ixaui v., iviank A.ix., veima iv.	Letters	2373	2007	10	12	Corresponding	2.207	0003-2717
	determination of		Leucis	2313						
	copper and palladium									
	simultaneously by									
	using MDTC as a									
	_									
61	reagent Methodologies for the	Mobile A. V. Dogelson D. Don 1	Atom: -	102 100	2007	20	4	Compon 1:	2.014	0105 5272
61	Methodologies for the	Malik A.K., Pozebon D., Dressler	Atomic	123-128	2007	28	4	Corresponding	3.014	0195-5373
	determination of low	V.L., Zoriy M., Becker J.S.	Spectrosc							
	concentrations of		opy							

	lanthanides in biological samples by ICP-MS									
60	Simultaneous spectrophotometric determination of cobalt and nickel by partial least square regression in micellar media	Kaur V., Malik A.K., Verma N.	Annali di Chimica	237-249	2007	97	3-4	Corresponding	8.471	0003-4592.
59	Capillary electrophoretic- ultraviolet method for the separation and estimation of zineb, maneb, and ferbam in food samples	Aulakh J.S., Fekete A., Malik A.K., Mahajan R.K., Schmitt-Kopplin P.	Journal of AOAC Internatio nal	834-837	2007	90	3	Corresponding	2.028	1060-3271
58	Simultaneous determination of cobalt and nickel using morpholinedithiocarba mate (MDTC) as reagent by first and second derivative spectrophotometry	Kaur V., Malik A.K., Verma N.	Journal of the Chinese Chemical Society	715-722	2007	54	3	Corresponding	1.753	0009-4536
57	Determination of some aldehydes by using solid-phase microextraction and high-performance liquid chromatography with UV detection	Kumar A., Singh B., Malik A.K., Tiwary D.K.	Journal of AOAC Internatio nal	1689- 1694	2007	90	6	Corresponding	2.028	1060-3271
56	Development of a capillary electrophoretic method for the analysis of low-molecular-weight amines from metal working fluid aerosols and ambient air	Fekete A., Frommberger M., Ping G., Lahaniatis M.R., Lintelman J., Fekete J., Gebefugi I., Malik A.K., Kettrup A., Schmitt-Kopplin P.	Electroph oresis	1237- 1247	2006	27	5-6	Co-author	3.535	0173-0835
55	Applications of solid phase microextraction for the determination	Kaur V., Malik A.K., Verma N.	Journal of Separation Science	333-345	2006	29	3	Corresponding	3.645	1615-9306

	of metallic and									
	organometallic species									
54	A review on solid phase microextraction - High performance liquid chromatography as a novel tool for the analysis of toxic metal ions	Malik A.K., Kaur V., Verma N.	Talanta	842-849	2006	68	3	Corresponding	6.556	0039-9140
53	Development of new adsorbent chitin for column preconcentration and spectrophotometric trace determination of Ziram and Zineb in synthetic, commercial samples and foodstuffs	Mehta S.K., Malik A.K., Singh B., Rao A.L.J.	Talanta	725-729	2005	67	4	Corresponding	6.556	0039-9140
52	Column preconcentration and spectrophotometric trace determination of Ziram and Zineb using chitin as an adsorbate	Mehta S.K., Malik A.K., Gupta U., Singh B., Rao A.L.J.	Indian Journal of Chemistry - Section A Inorganic, Physical, Theoretica 1 and Analytical Chemistry	1413- 1414	2005	44	7	Corresponding	N/A	9750975
51	A review on solid phase micro extraction - High performance liquid chromatography (SPME-HPLC) analysis of pesticides	Aulakh J.S., Malik A.K., Kaur V., Schmitt-Kopplin P.	Critical Reviews in Analytical Chemistry	71-85	2005	35	1	Corresponding	3.645	1615-9306
50	Solid phase microextraction-high pressure liquid chromatographic determination of Nabam, Thiram and	Aulakh J.S., Malik A.K., Mahajan R.K.	Talanta	266-270	2005	66	1	Corresponding	6.556	0039-9140

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	Azamethiphos in water									
	samples with UV									
	detection: Preliminary									
	data									
49	Fourth derivative	Sharma V.K., Aulakh J.S., Malik	Talanta	375-379	2005	65	2	Corresponding	6.556	0039-9140
	spectrophotometric	A.K.								
	determination of									
	fungicide thiram									
	(tetramethyldithiocarb									
	amate) using sodium									
	molybdate and its									
	application									
48	Column	Malik A.K., Sharma V., Sharma	Journal of	7763-	2004	52	26	Corresponding	5.895	0021-8561
1	preconcentration and	V.K., Rao A.L.J.	Agricultur	7767						
	spectrophotometric	,,	al and	,						
	determination of ziram		Food							
	and zineb in		Chemistry							
	commercial samples									
	and foodstuffs using									
	(1,2'-pyridylazo)-2-									
	naphthol (PAN)-									
	naphthalene as									
	adsorbate									
47	Fourth derivative	Sharma V.K., Aulakh J.S., Bansal	Internatio	1105-	2004	84	14-15	Corresponding	2.731	0306-7319
''	spectrophotometric	S., Malik A.K., Mahajan R.K.	nal	1110	200.	.	1.10	Corresponding	2.701	0000 7019
	determination of	S., Maria Piliti, Mariagan Peri	Journal of	1110						
	fungicide ziram		Environm							
	(zinc(II)		ental							
	dimethyldithiocarbama		Analytical							
	te) in commercial		Chemistry							
	samples and wheat		Chemistry							
	grains									
46	Thiram: Degradation,	Sharma V.K., Aulakh J.S., Malik	Journal of	717-723	2003	5	5	Corresponding	N/A	1464-0325
10	applications and	A.K.	Environm	,11 123	2003			Corresponding	11/21	1101 0323
	analytical methods	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ental							
	analytical methods		Monitorin							
			g							
45	Fourth-derivative	Malik A.K., Bansal S., Aulakh J.S.	Analytical	1250-	2003	375	8	Corresponding	N/A	2383-093X
13	spectrophotometric	Trank Print, Dansai S., Panakii J.S.	and	1253	2003	313		Corresponding	11/21	2303 073A
	determination of		Bioanalyti	1233						
	fungicide ferbam		cal							
	(iron(III)		Chemistry							
<u></u>	(11011(111)		спешви у				1			

	dimethyldithiocarbama te) in a commercial sample and wheat grains using 2,2'- bipyridyl									
44	On-line chloride interference removal for arsenic determination in waste water and urine by ICP-MS using a modified capillary	Malik AK., Gómez M., Cámara C., Riepe HG., Bettmer J.	Internatio nal Journal of Environm ental Analytical Chemistry	795-804	2002	82	11-12	Corresponding	2.731	0306-7319
43	Fourth derivative spectrophotometric determination of trace silver after preconcentration with the ion pair of 2-nitroso-1-naphthol-4-sulfonic acid and tetradecyldimethylben zylammonium chloride by microcrystalline naphthalene or column method	Taher M.A., Puri B.K., Malik A.K.	Croatica Chemica Acta	25-38	2002	75	1	Corresponding	0.659	0011-1643
42	Spectrophotometric determination of ziram in a commercial sample and wheat by extraction of its copper dimethyldithiocarbama te complex into molten naphthalene	Malik A.K., Rao A.L.J.	Journal of AOAC Internatio nal	146-148	2002	85	1	Corresponding	2.028	1060-3271
41	A new sensitive method for the spectrophotometric determination of molybdenum using 3-hydroxy-2-(2'-thienyl)-4h-chromen-4-one	Malik A.K., Sharma V., Nijhawan M., Rao A.L.J.	Annali di Chimica	115-125	2002	92	1-2	Corresponding	8.471	0003-4592.
40	3-Hydroxy-2-(2'-thienyl)-4H-chromon-	Sharma V., Nijhawan M., Malik A.K., Rao A.L.J.	Zhurnal Analitiche	940-942	2001	56	9	Corresponding	N/A	0044-4669

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	4-on as a		skoj							
	spectrophotometric		Khimii							
	reagent for the trace									
	determination of									
	zirconium in an									
	aqueous phase									
39	Spectrophotometric	Malik A.K., Kaul K.N., Lark B.S.,	Turkish	99-105	2001	25	1	Corresponding	1.151	1300-0527
	determination of	Faubel W., Rao A.L.J.	Journal of							
	cobalt, nickel		Chemistry							
	palladium, copper,									
	ruthenium and									
	molybdenum using									
	sodium									
	isoamylxanthate in									
	presence of surfactants									
38	Column	Taher M.A., Puri B.K., Malik	Annali di	319-330	2001	91	5-6	Corresponding	8.471	0003-4592.
	preconcentration of	A.K.	Chimica	017 000	2001	1		Corresponding	0	0000 10921
	trace manganese with									
	the ion pair of 2-									
	nitroso-1-naphthol-4-									
	sulfonic acid tetra-									
	decyldimethylbenzyl-									
	ammonium chloride									
	supported on									
	naphthalene and									
	determination by									
	derivative									
	spectrophotometry									
37	A review of analysis of	Malik A.K., Faubel W.	Critical	223-279	2001	31	3	Corresponding	3.645	1615-9306
31		Malik A.K., Faubel W.		223-219	2001	31	3	Corresponding	3.043	1013-9300
	pesticides using capillary		Reviews in							
	electrophoresis		Analytical							
26	2 11 1 2 (2)	01 37 31 35 35 22	Chemistry	020.022	2001	5.0	0	C 1:	1 227	0052 2020
36	3-Hydroxy-2-(2'-	Sharma V., Nijhawan M., Malik	Journal of	830-832	2001	56	9	Corresponding	1.237	0253-3820
	thienyl)-4H-chromon-	A.K., Rao A.L.J.	Analytical							
	4-one as a		Chemistry			1				
35	Direct	Malik A.K.	Journal of	5808-	2000	48	12	Corresponding	5.895	0021-8561
35	spectrophotometric reagent for the trace determination of zirconium in an aqueous phase Direct	Malik A.K.	Journal of	5808-	2000	48	12	Corresponding	5.895	0021-

	spectrophotometric determination of ferbam (iron(III) dimethyldithiocarbama te) in commercial sample and wheat grains using 4,7-diphenyl-1,10-phenanthroline		Agricultur al and Food Chemistry	5811						
34	Spectrophotometric determination of ferbam [iron(III) dimethyl dithiocarbamate] in commercial sample and wheat grains after extraction of its bathophenanthroline tetraphenylborate complex into molten naphthalene	Malik A.K., Rao A.L.J.	Journal of Agricultur al and Food Chemistry	4044- 4047	2000	48	9	Corresponding	5.895	0021-8561
33	Spectrophotometric determination of cobalt, nickel, palladium, copper, ruthenium and molybdenum after adsorption of their isoamylxanthate complex onto microcrystalline naphthalene	Malik A.K.	Annali di Chimica	581-591	2000	90	9-10	Corresponding	8.471	0003-4592.
32	Capillary electrophoretic determination of zinc dimethyldithiocarbama te (Ziram) and zinc ethylenebisdithiocarba mate (Zineb)	Kumar Malik A., Faubel W.	Talanta	341-346	2000	52	2	Corresponding	6.556	0039-9140
31	Potentiometric studies on the complexes of Co(II), Ni(II), Cu(II),	Mahajan R.K., Kiranpreet, Malik A.K., Kumar A., Singh V.	Transactio ns of the SAEST	76-78	2000	35	2	Corresponding	N/A	0036-0678

	Zn(II), Cd(II) and Pb(II) with N-4- methylphenacylidene- o-aminophenol		(Society for Advance ment of Electroche mical Science and Technolog y)							
30	Spectrophotometric determination of cobalt, nickel, copper, palladium and molybdenum using sodium diethyldithiocarbamate in the presence of surfactants	Kaul K.N., Malik A.K., Lark B.S., Rao A.L.J.	Revue Roumaine de Chimie	221-226	2000	45	3	Corresponding	0.410	0035-3930
29	Simple and sensitive spectrophotometric determination of ziram, zineb and ferbam in commercial samples and foodstuffs using phenylfluorone	Malik A.K., Kapoor J., Rao A.L.J.	Journal of Environm ental Monitorin g	367-371	2000	2	4	Corresponding	N/A	1464-0325
28	Spectrophotometric determination of ferbam (iron(III) dimethyldithiocarbama te) in commercial sample and wheat grains using 4,7-diphenyl-1,10-phenanthroline after extraction into mesityl oxide	Malik A.K.	Journal of Environm ental Monitorin g	151-153	2000	2	2	Corresponding	N/A	1464-0325
27	Spectrophotometric determination of cobalt, nickel, palladium, copper, ruthenium and	Malik A.K., Rao A.L.	Journal of Analytical Chemistry	746-749	2000	55	8	Corresponding	1.237	0253-3820

molybdenum after extraction of their isoany! xanthate complexes into molten naphthalene. 26 Capillary electrophoretic determination of tetramethyldihiuram distributions and manufacture and their stations and their studies by nuclear magnetic resonance and extractions and their studies by nuclear magnetic resonance and extractions and their studies by nuclear magnetic resonance and extractions and their studies by nuclear magnetic resonance and extractions and their studies by nuclear magnetic resonance and their studies and their studies by nuclear magnetic resonance and their studies and t		1		ı	1	_		1	1		
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20 Spectrophotometric Malik A.K., Seidel B.S., Faubel Pest 1000- 1999 55 10 First 4.462 1526-4998				J			 		<u> </u>		
	20	Spectrophotometric	Malik A.K., Seidel B.S., Faubel	Pest	1000-	1999	55	10	First	4.462	1526-4998

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	determination of	W.	Managem	1003						
	ferbam (iron(III)		ent							
	dimethyldithiocarbama		Science							
	te) in a commercial									
	sample and wheat									
	grains using 4,7-									
	diphenyl-1,10-									
	phenanthroline									
19	Methods of analysis of	Malik A.K., Faubel W.	Pest	965-970	1999	55	10	First	4.462	1526-4998
17	dithiocarbamate	Walik A.K., Paubel W.		703-770	1777	33	10	THSt	4.402	1320-4770
			Managem							
	pesticides: A review		ent							
			Science							
18	Capillary	Malik A.K., Seidel B.S., Faubel	Internatio	159-164	1999	75	1-2	First	2.731	0306-7319
	electrophoretic	W.	nal							
	determination of		Journal of							
	disodium ethylene		Environm							
	bisdithiocarbamate		ental							
	(Nabam) and sodium		Analytical							
	diethyldithiocarbamate		Chemistry							
	(NaDDC)		Chemistry							
17	Simple and sensitive	Malik A.K., Kaul K.N., Lark B.S.,	Pest	104-106	1998	53	1	First	4.462	1526-4998
1 /	method for	Rao A.L.J.	Managem	104-100	1776	33	1	THSt	4.402	1320-4776
		Rao A.L.J.	_							
			ent							
	tetramethylthiuram		Science							
	disulphide (Thiram)									
16	Polarographic	Malik A.K., Rao A.L.J.	Journal of	491-492	1998	75	8	First	0.243	0019-4522
	Determination of		the Indian							
	Zineb and Maneb		Chemical							
			Society							
15	Spectrophotometric	Malik A.K., Rao A.L.J.	Talanta	177-183	1997	44	2	First	6.556	0039-9140
	determination of									
	iron(III)									
	dimethyldithiocarbama									
	te (ferbam)									
14	Spectrophotometric	Malik A.K., Kaul K.N., Lark B.S.,	Journal of	23-28	1996	12	1-4	Co-author	N/A	0970-1893
14	determination of	Rao A.J.L.	Surface	23-20	1770	12	1-4	Co-autiloi	1N/A	07/0-1073
		Nau A.J.L.								
	ferbam (ferric		Science							
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13	Spectrophotometric determination of maneb by ternary	Kapoor J., Kumar A., Gupta U., Rao A.L.J.	Talanta	2061- 2065	1994	41	12	Co-author	6.556	0039-9140
	complex formation with PAR and CTAB									
12	Extraction	Rao A.L.J., Malik A.K., Kapoor J.	Talanta	201-203	1993	40	2	Co-author	6.556	0039-9140
12	spectrophotometric determination of maneb with 1-(2'-	Rao A.L.J., Mank A.K., Rapool J.	Talanta	201-203	1773	40	2	Co-author	0.550	0037-7140
	pyridylazo)-2-naphthol (PAN)									
11	Titrimetric determination of dithiocarbamate and xanthate pesticides using mercuric acetate	Kumar A., Paul Y., Rao A.L.J.	Journal of the Indian Academy of Forensic Sciences	19-24	1992	31	1	First	0.16	9710973
10	Spectrophotometric Determination of Ziram by Coprecipitating the Corresponding Copper(II) or Palladium(II) Complex with Naphthalene	Malik A.K., Rao A.L.J.	Journal of the Chinese Chemical Society	235-238	1992	39	3	First	1.753	0009-4536
9	Spectrophotometric determination of ferric dimethyldithiocarbama te (ferbam) in formulations, grain and apples using 1, 10-phenanthroline	Malik A.K., Rao A.L.J.	Pest Managem ent Science	69-72	1992	35	1	First	4.462	1526-4998
8	Spectrophotometric determination of gold using N-methylanilinecarbodith ioate as a reagent	Chopra S., Malik A.K., Rao A.L.J.	Journal of the Indian Chemical Society	637-638	1991	68	11	Co-author	0.243	0019-4522
7	Spectrophotometric determination of ruthenium(III) and rhodium(III) with namylthioglycolate	Kumar Malik A., Gupta U., Rao A.L.J.	Journal of the Indian Chemical Society	587-589	1991	68	10	First	0.243	0019-4522

6	Experimental and discussion	Malik A.K., Paul Y., Rao A.J.L.	Internatio nal Journal of Environm ental Studies	199-200	1991	38	2-3	First	2.731	0306-7319
5	Spectrophotometric determination of ferbam using sodium selenite	Kumar A., Rao A.L.J., Puri B.K.	Internatio nal Journal of Environm ental Analytical Chemistry	159-166	1991	44	3	First	2.731	0306-7319
4	Spectrophotometric determination of ziram, ferbam and zineb with diphenylcarbazone	Malik A.K., Rao A.L.J.	Talanta	941-944	1991	38	8	First	6.556	0039-9140
3	Spectrophotometric method for determination of tetramethylthiuram disulphide by extraction of its chromium complex into isobutyl methyl ketone	Rao A.L.J., Malik A.K.	Journal of the Indian Chemical Society	615-616	1990	67	7	Co-author	0.243	0019-4522
2	Spectrophotometric determination of some dithiocarbamates	Malik A.K., Rao A.L.J.	Talanta	1205- 1207	1990	37	12	First	6.556	0039-9140
1	Spectrophotometric determination of Ziram (zinc dimethyl dithiocarbamate) pesticide with selenite (IV)	Rao A.L.J., Kumar A.	Journal of the Indian Academy of Forensic Sciences	49-50	1990	29	1	First	0.16	9710973