

BIO-DATA	
Name	Dr. Ashok Kumar
Designation	Professor & Head
Educational Qualifications	Ph.D. (IIT Delhi). D. Sc.
Date of Birth	12/09/1957
Address	Official School of Chemical Sciences Takshashila Campus Devi Ahilya Vishwavidyalaya Indore (M.P.) Pin- 452 001
	Residential P-9, University Qtrs., Khandwa Road, Indore (M.P.) Pin- 452 001
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	Residence (731) 2479588
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Academic Profile	Devi Ahilya Vishwavidyalaya, Indore (Total = 32 years) <ul style="list-style-type: none"> • Professor : From 24-2-1997 to date • Reader : From 24-2-1989 to 23-2-1997 • Lecturer : From 10-12-1985 to 23-2-1989
Administrative Profile	<ul style="list-style-type: none"> • Head, School of Chemical Sciences (01-01-2016 to date) • Head, School of Journalism and Mass Communication(08-5-2015 to 31-12-2015) • Head, School of Pharmacy (08-5-2004 to 08-12-2004) • Acting Vice Chancellor (on different dates) • In-charge, University Central Evaluation Centre (18-12-2006 to 25-7-2009) • Coordinator, University Cell, MPCST, Bhopal • Dean , Faculty of Science (19-11-2007 to 18-10-2009) • Member, Executive Council (21-01-2008 to 18-10-2009) • Director, College Development Council (DCDC) (22-7-2009 to 29-01-2011) • Chairman, Board of Studies in Chemistry (25-09-2009 to 24-9-2012) • Chief Proctor, DAVV, Indore (Academic Sessions 2013-14 and 2014-15) • Chairman , Common Entrance Test (CET-2013 and CET-2014) • VC Nominee and Chairman in various administrative /academic committees • Member / Member coordinator , NAAC Bangalore
Awards/Fellowships/Recognition	<ul style="list-style-type: none"> • MPCST “Best Science Research Award” for teacher fellow.

	<ul style="list-style-type: none"> • “Certificate of Appreciation-2018” by University
Research Area	Synthetic Chemistry, Computational/Theoretical Chemistry, Solvent-Extraction, Spectroanalytical studies, Electrochemistry, Physico-analytical studies
Research Guidance	Annexure I <i>M.Phil.</i> : 03 <i>Ph.D. Awarded</i> : 14 <i>Ph.D. Registered</i> : 07
Projects	Annexure II No. of Projects Sanctioned : 13 <ul style="list-style-type: none"> • DST, New Delhi : 01 • CSIR, New Delhi : 03 • UGC, New Delhi : 03 • MPCST, Bhopal : 03 • DRDO, New Delhi : 01 • NET-JRF (Open) CSIR, Delhi : 02
Membership of Societies	<ul style="list-style-type: none"> • Indian Council of chemists (ICC) No. L -773 • Indian Science Congress Association (ISCA) No. L – 4201 • Chemical Research Society Of India (CRSI) No. L-1708
Significant Activities (Invited Talks/ Resource Person/Sessions Chaired/ students achievements etc)	<ul style="list-style-type: none"> • Conferred by Indo-Hungarian Exchange Fellowship (Nov 2008-Feb 2009) and visited University of Pecs, Hungary. • Visited Japan, during November 21-24, 2011 and presented a paper in International Symposium at Keio University, Yokohama, Japan. • Recipient of “Best Science Research Award” for the year 2012 by MPCST, Bhopal. <ul style="list-style-type: none"> ▪ Received “Certificate of Appreciation-2018” for highest citations of publications among all the faculty members ▪ My Ph.D. student Ms. Ujla Daswani has been conferred by the most prestigious national award of the country “ISCA Award- 2018” in 105th Indian Science Congress held in Manipur University, Imphal, Manipur during March 16-21, 2018 . ▪ Delivered invited talk in an International conference in London held during March 1-4,2018 ▪ Received “Best Science Research Award, 2012” for teacher organized at University level under MPCST, Bhopal chapter. ▪ Frequently serving as the reviewer to review the papers received from various international and

	<p>national journals.</p> <ul style="list-style-type: none"> ▪ Grant generated through a number of research projects (CSIR, DST, UGC, MPCST, DRDO) is an acclamation to my research activities. ▪ Visited Hungary and delivered lectures on “Supramolecular Chemistry” at University of Pecs, Hungary during Nov. 2008 ▪ Visited “State Research Institute for Viticulture and Pomiculture, Wiensberg, Germany” in context of a research project in 2008. ▪ Gave invited lecture in Christian Eminent College, Indore (2014) ▪ Served as Chief Guest and delivered key note address in a national conference on Recent trends in Chemistry, conducted by Govt. College, Sendhwa (M.P.) February 18–19, (2016) ▪ Invited to deliver a talk in National conference “Recent Trends in R & D, Quality Control and Marketing in Chemical Industries” Jiwaji University, Gwalior (2016) ▪ As Chief Guest in the inaugural function of a workshop cum seminar organized by IPS academy, Indore on dated December 13, 2016. Also delivered Invited talk in this program • Invited to give a lecture at Rewa Gurjar College, Sanawad on February 11, 2017 • MPCST “Best Science Research Award” for teacher fellow. • Honored by Indo-Hungarian Exchange Fellowship and visited University of Pecs, Hungary (Nov.2008-Feb.2009) • Attended the conference at Keio University, Japan in Nov.2011 • Visited many Institutions as the Co-ordinator/Member of NAAC Peer Team for accreditation.
<p>Research Publications</p>	<p>Annexure III</p> <ul style="list-style-type: none"> • <i>National / International</i> : 132 • <i>Conferences/ Seminars/ Workshops</i> : 95

Annexure I

- Following Students have been awarded their Ph.D. degree under my Supervision:

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S.No.	Name of the Ph.D. students	Year of award	Financial Support
1.	Dr. Ashok Joshi	1989	-
2.	Dr. Ramakant Shukla	1990	CSIR, Delhi
3.	Dr. Mamta Jain	1991	MPCST, Bhopal
4.	Dr. R.S. Agrawal	1991	UGC, Delhi
5.	Dr. Brijesh Kumar Tripathi	1992	-
6.	Dr. Arati Asolkar	1993	-
7.	Dr. Nirankar Nath Mishra	1996	CSIR, Delhi
8.	Dr. Aradhana Nigam	1999	UGC, Delhi
9.	Dr. Ravi Sharma	2002	-
10.	Dr. Vamsi Krishna Gurrum	2006	-
11.	Dr. Lal Kumar Chandel	2011	DST, Delhi
12.	Dr. Bhagwan Lal Kalal	2012	CSIR, Delhi
13.	Dr. Pawan Kumar Sharma	2016	-
14.	Dr.. Nitin Dubey	2017	DRDO, Delhi

Annexure II

PROJECTS ONGOING/COMPLETED:

- **Grants**

No. of Projects Sanctioned	:	13
DST, New Delhi	:	01
CSIR, New Delhi	:	03
UGC, New Delhi	:	03
MPCST, Bhopal	:	03
DRDO, New Delhi	:	01
NET-JRF(Open) CSIR, Delhi	:	02

DETAILS OF RESEARCH PROJECTS

I. C.S.I.R. PROJECTS

- 1) Synthesis, Characterization, Chromatographic Resolution and Electro-chemical Reduction Studies on N-Phenylsulphonamoylpynimidinoaryl-azopyrazolones

a) Ref	:	02/354/92-EMR-II
b) Period of the Project	:	Dec. 1992- Sept. 1996
Total	:	Rs.4,04,295/-

- 2) Extraction and Spectrophotometric Determination of Metals at Trace Level after Chromatographic pre-concentration using Naphthalene as an Adsorbent

a) Ref	:	01(1260) 93-EMR-II
b) Period of the Project	:	May 1993- April 1996
Total	:	Rs. 2,14,373/-

II. U.G.C. PROJECT

- 3) A Facile Electroorganic Synthesis of Novel 3-Substituted α -Diketones and α -Ketoesters of some Sulphonamides and Aromatic amines Followed by their S-TLC Resolution

a) Ref	:	F12-21/94 (SR-I)
b) Period of the Project	:	Dec. 1994- Dec. 1997
Total	:	Rs. 1,48,200/-

- 4) Separation and Simultaneous Spectrophotometric Determination of Rare Earth with N-Phenylsulphonamidoarylazopyrazolones

a) Ref	:	F12-41/93 (SR-I)
b) Period of the Project	:	July 1994- June 1997
Total	:	Rs. 1,42,200/-

III. MPCST PROJECT

- 5) Synthesis and Electrochemical Reduction Studies on some Novel Pharmacodynamically Significant Azoisoxazoles

a) Ref	:	C-48/93
b) Period of the Project	:	3.7.95 to 2.7.98
Total	:	Rs. 93,103/-

IV. CSIR PROJECT

- 6) Synergistic Extraction and Spectrophotometric Determination of Toxic Metal Ions and Lanthanides at Trace Level By Chromogenic Substituted Calix [n]arenes

a) Ref.	:	01(1991)/05/EMR-II dated 8-12-2006
b) Period of the Project	:	3 Years w.e.f.1-4-2006
Total	:	Rs 10,46,000/-

V. CSIR PROJECT (Open)

- 7) Comprehensive Studies on Synthesis and Characterization Aspects of Some Biologically Significant Heterocyclic Systems

a) Ref.	:	F.No.09/301(01135)/2006 (i)EMR-I dated 13-03-2007
b) Period of the Project	:	3 Years
c) Staff. (JRF)	:	Rs.1,44,000/-per annum
d) Contingency	:	Rs.20,000/- per annum

VI. DST, NEW DELHI

- 8) Synergic Extraction and Stripping Voltammetric Determination of Toxic Metal Ions and Lanthanides at Trace Level by Calix[n]arenes/Calix[n] resorcinarenes”

Sanction No.	:	Ref. - SR/S-1/IC-17/ 2006 Dated 23-4-2007
Total (in Rs.)	:	Rs. 17,20,000 /-

VII. DRDO, GOVT. OF INDIA, MINISTRY OF DEFENCE, NEW DELHI

- 9) Efficient Construction of Novel Triazoles as Potential Therapeutics: A Classical Versus Click Chemistry Approach

a) Ref.	:	ERIP/ER/1103024/M/01/1476Dated 30-05-2013
b) Period of the Project	:	3 Years (03-09-2013 to 02-09-2016)

VIII. MPCST PROJECT

10) Synthesis and Electrochemical Reduction Studies on some Novel Pharmacodynamically Significant Azoisoxazoles

- Ref : C-48/93
- Period of the Project : 3.7.95 to 2.7.98
- **Total** : **Rs. 93,103/-**

11) Modified-Nanocatalysts /Nano-organocatalysts Mediated Sustainable Synthesis and Comprehensive Electrochemical Investigations of Aza Heterocyclic Structural Motifs

- Ref : A/R & D/RP-2/ Phy & Engg./2017-18/269
- Period of the Project : 3years (31-03-2018 to 30-03-2021)
- Salary of One JRF & : Rs. 5,40,000/-
- **Total** : **Rs. 7,80,000/-**

Annexure III

LIST OF RESEARCH PUBLICATIONS

Papers in National and International Journals

1. From Molecules To Devices: A DFT/Td-DFT Study Of Dipole Moment And Internal Reorganization Energies In Optoelectronically Active Aryl Azo Chromophores
Ujla Daswani, Usha Singh, Pratibha Sharma, and **Ashok Kumar**
J. Phys. Chem. C, 122 (26), 14390–14401 (2018)
(Impact factor: 4.484)
Publisher: American Chemical Society (USA)
2. A Submicellar Liquid Chromatographic Method for Quantitative Determination of Muscle Relaxant Drug Baclofen Solubilized System
Hitesh Malvia, **Ashok Kumar**, Pratibha Sharma, Ritesh Mishra.
Asian Journal of Chemistry, 29, 1509-1514 (2017)
Publisher: Asian Publication Corporation
3. A Micellar Liquid Chromatographic Method for the Determination of Azosemide in Solubilized System
Hitesh Malvia, **Ashok Kumar**, Pratibha Sharma, Ritesh Mishra.
Journal of Surfactants and detergent's, 20 (6), 1411–1418 (2017)
(Impact Factor: 1.853)
Publisher : Springer
4. Exploration of Antioxidant Activity of Newly Synthesized Azo Flavones and its Correlation with Electrochemical Parameters along with the Study of their Redox Behaviour
Ashok Kumar, Pratibha Sharma, Pawan Kumar Sharma
Journal of Analytical Chemistry, 72 (10), 1034–1044 (2017)
(Impact factor: 0.971)
Publisher: Pleiades Publishing, Ltd.
5. In vitro and in silico evaluation of 2-(substituted phenyl) oxazolo [4,5-b]pyridine derivatives as potential antibacterial agents
Gagandeep Kour Reen, Ashok Kumar and **Pratibha Sharma**
Medicinal Chemistry Research, 26, 3336–3344 (2017)
Impact factor: 1.607
Publisher: Springer
6. ZnO Nanoparticle-Catalyzed Multicomponent Reaction for the Synthesis of 1,4-Diaryl Dihydropyridines
Gagandeep Kour Reen, Monika Ahuja, Ashok Kumar, Rajesh Patidar and **Pratibha Sharma**
Organic Preparations and Procedures International, 49, 273–286 (2017)

Impact factor: 1.591
Publisher: Taylor & Francis (England)

7. A new NBS/oxone promoted one pot cascade synthesis of 2-aminobenzimidazoles/ 2-aminobenzoxazoles: a facile approach
Ujla Daswani, Nitin Dubey, Pratibha Sharma and **Ashok Kumar**
New Journal of Chemistry 40, 8093-8099 (2016)
(Impact factor: 3.277)
Publisher: Royal Society of Chemistry (UK)
8. A Typical NEDDA Cycloaddition Strategy between C-3- and N-Substituted Indoles and Butadienes Using Silica-supported Copper Triflate as an Efficient Catalytic System: A Correlative Experimental and Theoretical Study
Monika Ahuja, Gagandeep Kour Reen, **Ashok Kumar** and Pratibha Sharma
Chemistry Letters 45 752-754 (2016)
(Impact factor: 1.2)
Publisher: The Chemical Society of Japan (JAPAN)
8. Dissociation dynamics of host-guest interaction between substituted calix[4]-arene and 4-chloronitrobenzene.
SKM **Ashok Kumar**, Pratibha Sharma, Pawan Kumar Sharma, Monika Ahuja, Gergely
Indian Journal of Chemistry 55, 304-308 (2016)
9. A comprehensive account of spectral, Hartree Fock, and Density Functional Theory studies of 2-chlorobenzothiazole
Ujla Daswani, Pratibha Sharma, and **Ashok Kumar**
Journal of Molecular Structure 1079 232–242(2015)
(Impact factor 1.599)
Publisher: Elsevier (Netherlands)
10. Acid Catalyzed Silica Supported One Pot Benzoylation Route to Synthesize 2-(Substituted Phenyl)oxazolo[4,5- b]pyridines Under Ambient Conditions
Gagandeep Kour Reen, Premansh Dudhe, Monika Ahuja, **Ashok Kumar**, and Pratibha Sharma
Synthetic Communication 45, 1986-1994 (2015)
(Impact factor 1.06)
Publisher: Taylor & Francis (United States)
11. Contribution of reactivity indexes in the formation of β -lactams through [2+2] cycloaddition between substituted ketenes and imines
Pratibha Sharma, Monika Ahuja, **Ashok Kumar**, and Vinita Sahu
Chemical Physics Letters 628 85–90(2015)
(Impact factor 1.9)
Publisher: Elsevier (Netherlands)

12. A click chemistry strategy to synthesize geraniol-coupled 1,4-disubstituted 1,2,3-triazoles and exploration of their microbicidal and antioxidant potential with molecular docking profile
Nitin Dubey, Mukesh C. Sharma, **Ashok Kumar**, and Pratibha Sharma
Medicinal Chemistry Research, 24-2717-2731(2015)
(Impact factor 1.43)
Publisher: Springer (United States)
13. Clay-supported Cu (II) catalyst: An efficient, heterogeneous, and recyclable catalyst for synthesis of 1, 4-disubstituted 1, 2, 3-triazoles from alloxan-derived terminal al...
N Dubey, P Sharma, **A Kumar**
Synthetic Communications 45 (22), 2608-2626 (2015)
Publisher: Taylor & Francis
14. Structural insights for substituted acyl sulfonamides and acyl sulfamides derivatives of imidazole as angiotensin II receptor antagonists using molecular modeling approach
MC Sharma, S Sharma, P Sharma, **A Kumar**, KS Bhadoriya
J. Taiwan Inst. Chem. Eng. 45 (1), 12-23 2014
(Impact factor 3.0)
Publisher: Elsevier (Taiwan)
15. QSAR and pharmacophore approach on substituted imidazole derivatives as angiotensin II receptor antagonists
MC Sharma, S Sharma, P Sharma, **A Kumar**, KS Bhadoriya
Medicinal Chemistry Research 23 (2), 660-681(2014)
(Impact factor 1.43)
Publisher: Springer (United States)
16. Pharmacophore and QSAR modeling of some structurally diverse azaaurones derivatives as anti-malarial activity
MC Sharma, S Sharma, P Sharma and **A Kumar**
Medicinal Chemistry Research 23 (1), 181-198 (2014)
(Impact factor 1.43)
Publisher: Springer (United States)
17. Comparative QSAR and pharmacophore analysis for a series of 2, 4-dihydro-3H-1, 2, 4-triazol-3-ones derivatives as angiotensin II AT1 receptor antagonists
MC Sharma, S Sharma, P Sharma, **A Kumar**, KS Bhadoriya
Medicinal Chemistry Research 23 (5), 2486-2502 (2014)
(Impact factor 1.43)
Publisher: Springer (United States)
18. Titania nanomaterials: efficient and recyclable heterogeneous catalysts for the solvent-free synthesis of poly-substituted quinolines via Friedlander hetero-annulation
Prabal Bandyopadhyay, G. K. Prasad, Manisha Sathe, Pratibha Sharma, **Ashok Kumar** and M. P. Kaushik

- RSC Adv., (RSC) 4, 6638-6645, (2014)
(Impact factor 3.289)
Publisher: Royal Society of Chemistry (England)
19. Synthesis of some novel phosphorylated and thiophosphorylated benzimidazoles and benzothiazoles and their evaluation for larvicidal potential to *Aedes albopictus* and *Culex quinquefasciatus*
Prabal Bandyopadhyay, Manisha Sathe, Sachin N. Tikar, Ruchi Yadav, Pratibha Sharma, **Ashok Kumar**, M. P. Kaushik
Bioorg. Med. Chem. Lett., 24, 2934–2939, (2014)
(Impact factor 2.49)
Publisher: Elsevier (U.S.A)
20. Antibacterial and free radical scavenging potential of synthesized 7-hydroxy-2-aryl-6-aryldiazenyl-4*H*-chromen-4-ones
Pawan Kumar Sharma, Prabal Bandyopadhyay, Pratibha Sharma, **Ashok Kumar**
edicinal Chemistry Research, (Springer) 23, 3569–3584 (2014)
(Impact factor 1.43)
Publisher: Springer (United States)
21. Impact of global and local reactivity descriptors on the hetero-diels-alder reaction of enaminothione with various electrophiles
Vinita Sahu, Pratibha Sharma, **Ashok Kumar**
Journal of Chilean Chemical Society 59, 2327-2334 (2014)
(Impact factor 0.35)
Publisher: Sociedad Chilena De Quimica (Chile)
22. QSAR and microbial studies on synthesized 2, 3 diphenylquinoline derivatives
Pratibha Sharma, Premansh Dudhe, **Ashok Kumar**
Drug Invention Today (Elsevier) 6(2), 127-140 (2014)
Publisher: Elsevier (England)
23. Synthesis and Evaluation of Antioxidant Properties of Some Synthesized Quinazoline and 1, 4-Diazepine Derivatives
P Sharma, P Dudhe, **A Kumar**
Journal of Pharmacy Research 8 (10), 1355-1363 (2014)
24. Synthesis and QSAR modeling 1-[3-methyl-2-(aryldiazenyl)-2*H*-aziren-2-yl]ethanones as potential antibacterial agents
Vinita Sahu, Pratibha Sharma, **Ashok Kumar**
Medicinal Chemistry Research, (Springer) 22 (5), 2476–2485 (2013)
(Impact factor 1.43)
Publisher: Springer (United States)

25. Exploration of Cardioprotective potential of *N*, α -L-rhamnopyranosyl vincosamide, an indole alkaloid, isolated from the leaves of *Moringa oleifera* in isoproterenol induced cardiotoxic rats: In vivo and in vitro studies
Sunanda Panda, Anand Kar, Pratibha Sharma, **Ashok Kumar**
Bioorg. Med. Chem. Lett. 23, 959–962 (2013)
(Impact factor 2.49)
Publisher: Elsevier
26. Comparative QSAR and pharmacophore modeling of substituted 2-[2'-(dimethylamino)ethyl]-1,2-dihydro-3*H*-dibenz[de,h]isoquinoline-1,3-diones derivatives as anti-tumor activity
Mukesh C. Sharma, Smita Sharma, Pratibha Sharma, **Ashok Kumar**
Medicinal Chemistry Research, 22, 5390–5407, (2013)
(Impact factor 1.43)
Publisher: Springer
27. Molecular modeling and pharmacophore approach for structural requirements of some 2-substituted-1-naphthols derivatives as potent 5-lipoxygenase inhibitors
Mukesh C. Sharma, Smita Sharma, Pratibha Sharma, **Ashok Kumar**
Medicinal Chemistry Research, 22, 5390–5407, (2013)
(Impact factor 1.43)
Publisher: Springer (United States)
28. Study of physicochemical properties-inducible nitric oxide synthase relationship of substituted quinazolinamines analogs: Pharmacophore identification and QSAR studies
Mukesh C. Sharma, Smita Sharma, Pratibha Sharma, **Ashok Kumar**
Arabian Journal of Chemistry, (Springer) (2013)
29. QSAR modeling of synthesized 3-(1,3-benzothiazol-2-yl-2-phenyl quinazolin-4-(3*H*)) ones as potent antibacterial agent
Ashok Kumar, Pratibha Sharma, Purna Kumari, Jitendra Singh and M. P. Kaushik
Medicinal Chemistry Research, (Springer) 21, 1136–1148 (2012)
30. Synthesis and exploration of QSAR model of 2-methyl-3-[2-(2-methylprop-1-en-1-yl)-1*H*-benzimidazol-1-yl]pyrimido[1,2-*a*]benzimidazol-4(3*H*)-one as potential antibacterial agents
Pratibha Sharma, **Ashok Kumar**, Manisha Sharma, Jitendra Singh, Prabal Bandyopadhyay, Manisha Sathe, & M. P. Kaushik
Journal of Enzyme Inhibition and Medicinal Chemistry, 27(2), 294-301 (2012).
31. Methyl-2-(4-methylphenyl)-2*H*-azirine-3-carboxylate as Dienophile in Hetero Diels Alder Cycloaddition: A DFT approach
Pratibha Sharma, **Ashok Kumar**, and Vinita Sahu
Letters in Organic Chemistry, 8, 132-137 (2011).

32. Exploration of antimicrobial and antioxidant potential of newly synthesized 2,3-disubstituted quinazoline-4(3H)-ones
Ashok Kumar, Pratibha Sharma, Purna Kumari and Bhagwan Lal Kalal
Bioorganic & Medicinal Chemistry Letters, (**Elsevier**) 21, 4353-4357 (2011)
(Impact factor 2.49)
Publisher: Elsevier (U.S.A).
33. Theoretical Evaluation of Global and Local Electrophilicity Patterns to Characterize Hetero-Diels-Alder Cycloaddition of Three-Membered 2H-Azirine Ring System
Pratibha Sharma, **Ashok Kumar**, and Vinita Sahu
Journal of Physical Chemistry A 114, 1032–1038 (2010)
Publisher: ACS Publication
34. A novel approach to the synthesis of 1,2,3-triazoles and their QSAR studies
Pratibha Sharma, **Ashok Kumar**, Siya Upadhyay, Jitendra Singh and Vinita Sahu
Medicinal Chemistry Research, 19, 589-602 (2010)
Publisher: Springer
35. Synthesis and Metal Extraction Behavior of Pyridine and 1,2,4-Triazole Substituted Calix[4]arenes
Ashok Kumar, Pratibha Sharma, Bhagwan Lal Kalal, and Lal Kumar Chandel
J. Incl. Phenom. Macrocycl. Chem., 68,369–379 (2010)
36. Environment Controlled Formation Kinetics Of Complexes Of Malvidin-3-O-Glucoside With Polyphenols.
S Kunsági-Máté, **Ashok Kumar**, Pratibha Sharma, L Kollar, MP Nikfardjam
Studia Universitatis Babeş-Bolyai, *Chemia* 54, 5-10 (2009)
37. Effect of molecular environment on the formation kinetics of complexes of malvidin-3-o-glucoside with caffeic acid and catechin.
Sa'ndor Kunsági-Máté, **Ashok Kumar**, Pratibha Sharma, La'szlo' Kolla'r, and Martin Pour Nikfardjam
J. Phys. Chem. B 113, 7468-7473 (2009)
Publisher: ACS Publication
38. Theoretical evaluation of the global and local electrophilicity patterns to characterize hetero Diels Alder cycloaddition in the synthesis of Isoxazolo-[4,5-e]-1,2,3,4-tetrazines
Pratibha Sharma, **Ashok Kumar**, Vinita Sahu and Jitendra Singh
Chinese Journal of Chemistry, 27 (5), 868-876 (2009)
Publisher: Wiley Inter Science
39. Synthesis and QSAR Modeling of 2-acetyl-2-ethoxycarbonyl-1- [4(4'-aryloxy) -phenyl]-N, N-dimethyl-aminophenylaziridines as Potential Antibacterial Agents
Pratibha Sharma, **Ashok Kumar**, Siya Upadhyay, Vinita Sahu and Jitendra Singh
European journal of Medicinal Chemistry 44 (1), 251-259 (2009)
Publisher: Elsevier

40. Synthesis of bio-active Spiro-2-[3'-(2'-phenyl)-3H-indolyl]-1-aryl-3-phenyl aziridines and SAR studies on their antimicrobial behaviour
Pratibha Sharma, **Ashok Kumar**, Siya Upadhyay, Vinita Sahu, and Jitendra Singh
Medicinal Chemistry Research 18 (5), 383-395 (2009)
Publisher: Springer
41. Calix[n]arenes Mediated Phase Transfer Catalytic Synthesis of Purine Derivatives
Pratibha Sharma, **Ashok Kumar**, Vinita Sahu, and Jitendra Singh
International Journal of Chemical Kinetics (Wiley Inter Science) 41, 265-274 (2009)
42. Synergistic extraction and spectrophotometric determination of palladium (II) iron (III) and tellurium (IV) at trace level by newly synthesized p-[4-(3, 5-dimethyl isoxazolyl) azophenylazo] calix (4) arene
Ashok Kumar, Pratibha Sharma, Lal Kumar Chandel and Bhagwan Lal Kalal
J. Incl. Phenom. Macrocycl. Chem., 61, 335-342 (2008)
Publisher: Springer
43. Synergistic solvent extraction of copper, cobalt, rhodium and iridium into 1, 2-Dichloroethane at trace level by newly synthesized 25, 26, 27, 28-tetrahydroxy-5, 11, 17, 23-tetra-[4-(N-hydroxyl-3-phenylprop-2-enimidamido) phenylazo] calix[4]arene
Ashok Kumar, Pratibha Sharma, Lal Kumar Chandel, Bhagwan Lal Kalal, Sandor Kunsagi-Mate
J. Incl. Phenom. Macrocycl. Chem., 62, 285–292 (2008)
Publisher: Springer
44. Frontier Orbital Interactions in the NDAC and IEDDAC Hetero Diels Alder Cycloaddition of Diazadienes
Pratibha Sharma, **Ashok Kumar**, Vinita Sahu and Jitendra Singh
Canadian Journal of Chemistry, 86, 384-394 (2008)
Publisher : NRC Press (Canada)
45. Diels Alder reaction strategy to synthesize 1, 2, 4, 5- tetrazines and exploration of their anti-inflammatory potential
Pratibha Sharma, **Ashok Kumar**, Vinita Sahu and Jitendra Singh
ARKIVOC 12, 218-225 (2008)
Publisher: Arkat USA INC
46. Synthesis of 4-[2,2-(methyl prop -1-enylidene)-2,3-dihydro-1H- benzimidazole-1-yl]-1-naphthol under phase transfers catalysis conditions
Pratibha Sharma, **Ashok Kumar** and Manisha Sharma
Catalysis Communications, (Elsevier) 7, 611-617 (2006)
Publisher: Elsevier

47. A facile synthesis of N-Phenyl-2, 6-dihydroxy-3-bromo-4-arylaquinoline under phase transfer catalytic condition and studies on their antimicrobial activities
Pratibha Sharma, **Ashok Kumar** and Priti Pandey Indian
Indian J. Chem., Sec. B, 45 B, 2077-2082 (2006)
Publisher: NISCAIR-CSIR
48. Synthesis and electrochemical investigations on 2-phenyl-4-[4'-(3''-ethyl)-phenyl azophenyl]-3-thioxo-3,4-dihydro-2H,2,4,9,10-tetraazaphenanthrene-1-one
Pratibha Sharma, **Ashok Kumar** and Manisha Sharma Indian
Indian J. Chem., 45A, 872-876 (2006)
Publisher: NISCAIR-CSIR
49. Synthesis and QSAR studies on 4,6-diphenyl- 5[2-(2-methylprop-1-enyl)-1H benzimidazole-1-yl] pyrimidine-2-(5H)-thione derivatives
Pratibha Sharma, **Ashok kumar** and Manisha Sharma
Eur. J. Med. Chem., 41,833-840 (2006)
Publisher: Elsevier
50. Studies on synthesis and evaluation of quantitative structure activity relationship of 10-methyl-6-oxo-5-arylazo-6, 7-dihydro-5H-[1,3] azaphospholo[1,5-d][1,4] benzodiazepine -2-phospha-3-ethoxycarbonyl-1-phosphorous dichloride
Ashok Kumar, Pratibha Sharma, V. K. Gurram and Nilesh Rane
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2. Cobalt Ferrite Catalyzed Efficient Synthesis of Benzimidazoles under Aqueous Conditions and Evaluation of their Biological Potential
Ujla Daswani and Ashok Kumar
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3. Synthesis, biological evolution and docking study of 1,4-disubstituted 1,2,3-triazoles
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12. Exploration of mesoporous mixed metal oxide nanocatalyst as efficient and recyclable heterogeneous catalysts for the synthesis of polysubstituted benzimidazole derivatives
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13. Exploration Synthesis and electrochemical studies on aryl 1-(4-aminobenzyl)-5-alkyl-1*H*-1,2,3-triazole-4-carboxylate
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