

<b>BIO-DATA</b>	
<b>Name</b>	<b>Dr. PRATIBHA SHARMA</b>
<b>Designation</b>	Professor
<b>Educational Qualifications</b>	M.Sc., Ph.D.
<b>Date of Birth</b>	06/04/1964
<b>Address</b>	<b>Official</b> School of Chemical Sciences Takshashila Campus Devi Ahilya Vishwavidyalaya Indore (M.P.) Pin- 452 001
	<b>Residential</b> P-9, Khandwa Road Takshashila Campus Indore (M.P.) Pin- 452 001
<b>E-mail</b>	<i>drpratibhasharma@yahoo.com</i>
<b>Contact Details</b>	<b>Office</b> (731) 460208
	<b>Residence</b> (731) 2479588
	<b>Mobile</b> (+91)9425187226
<b>Academic Profile</b>	<p>Devi Ahilya Vishwavidyalaya, Indore (Total = 28 years)</p> <ul style="list-style-type: none"> <li>• Professor : From 05-01-2007 to date</li> <li>• Reader : From 05-01-1999 to 04-01-2007</li> <li>• Lecturer : From 05-01-1990 to 04-01-1999</li> </ul>
<b>Administrative Profile</b>	<ul style="list-style-type: none"> <li>• Member, Board of Studies, DAVV, Indore</li> <li>• Member, Board of Studies, Vikram University, Ujjain</li> <li>• Member, Board of Studies, Jiwaji University, Gwalior</li> <li>• Coordinator NAAC-Peer team visits.</li> <li>• VC nominee / Subject experts in the selection committees of teaching posts and affiliation to the colleges of the University.</li> <li>• VC nominee in the Governing bodies of colleges affiliated to the University.</li> <li>• VC nominee in the RDC of different subjects viz., Music, Fine arts, Dance, English etc.</li> <li>• Chairman/member in various committees of University viz., Convocation, Youth festival, World Bank, Annual report, House allotment, Financial assailment to students, Examination committees, Organizing team, University Proposal for Potential Excellence etc.</li> </ul>
<b>Awards/Fellowships/Recognition</b>	<ul style="list-style-type: none"> <li>• National Scholarship during academic career.</li> <li>• MPCST Young Scientists Award.</li> <li>• “Most Cited Research Paper Award” (2004-2007) by Elsevier</li> <li>• MPCST “Best Science Research Award” for teacher fellow.</li> <li>• Received “DRDE Award -2012” for Best Paper from DRDE, Gwalior.</li> <li>• Visited Hungary, Germany, and Japan in context of academic / research work.</li> </ul>

	<ul style="list-style-type: none"> <li>• Frequently serving as the reviewer for many International/National journals</li> <li>• Delivered invited talks and Chaired sessions in many conferences/seminars (For highest citations among faculty members)</li> </ul>
<b>Research Area</b>	Synthetic organic chemistry, Electroorganic chemistry, Medicinal chemistry, Phase-transfer catalysis, Nanotechnology, Computational studies, Biological evaluation.
<b>Research Guidance</b>	<p><b>Annexure I</b></p> <p><i>M.Phil.</i> : 06  <i>Ph.D. Awarded</i> : 14  <i>Ph.D. Registered</i> : 04</p> <p><i>Research Associate in CSIR Project : 1</i></p>
	<p><b>Annexure II</b></p> <p><b>No. of Projects Sanctioned : 15</b></p> <ul style="list-style-type: none"> <li>• DST, New Delhi : 01</li> <li>• CSIR, New Delhi : 03</li> <li>• UGC, New Delhi : 02</li> <li>• MPCST, Bhopal : 02</li> <li>• DRDO, New Delhi : 02</li> <li>• SRF (Open) CSIR, Delhi : 02</li> <li>• NET-JRF/SRF (Open) CSIR, Delhi : 01</li> <li>• NET-JRF(Open) UGC, Delhi : 01</li> <li>• UGC-MANF-JRF (Open) : 01</li> </ul>
<b>Membership of Societies</b>	<ul style="list-style-type: none"> <li>• Chemical Research Society of India (CRSI)</li> <li>• Indian Science Congress Association (ISCA), Calcutta.</li> <li>• SAEST, Karaikudi, (CECRI) CSIR, Govt. of India, Delhi</li> <li>• Indian Chemical Society, Calcutta</li> <li>• The World Academy of Sciences (TWAS), Italy</li> </ul>
<b>Significant Activities</b> (Invited Talks/ Resource Person/Sessions Chaired/ students achievements etc)	<p><i>UGC Network Programmes : 07</i>  <i>(Telecasted on DD – 1)</i></p> <ul style="list-style-type: none"> <li>• Received “ <b>Certificate of Appreciation-2017</b>” for highest citations of publications among all the faculty members</li> <li>▪ My student Ms. Gagandeep Kour Reen has received <b>Young Scientist Award</b> by Madhya Pradesh Council of</li> </ul>

	<p>Science and Technology held at Bhopal during 10-11 March, 2017.</p> <ul style="list-style-type: none"> <li>▪ My student Ms. Gagandeep Kour Reen has received <b>Prof. D. Ashok and Dr. M. Sarasija Award</b> for her best paper presentation by Indian Council of Chemists held at Pune during 22-24 Dec., 2016.</li> <li>▪ Received <b>“DRDE Award -2012” for Best Paper</b> from DRDE, Gwalior.</li> <li>▪ Received <b>“Best Science Research Award, 2010”</b> for tea from MPCST, Bhopal</li> <li>▪ Delivered an Invited Lecture on “Designing Pharmaceuticals: A Retrosynthetic Approach” in a National Level Seminar Organized by Holkar Science College, Indore on 16-12-2010.</li> <li>▪ Delivered lectures as the resource person in Chemistry Refresher Course organized by Academic Staff College , Indore during Aug. – Sept.2010.</li> <li>▪ Served as the Expert member of a committee to evaluate presentation of participants of refresher course in environm science organized by ASC, Indore.</li> <li>▪ One of my Ph.D. scholars Ms. Vinita Sahu has received “Best Science Research Award, 2010 “for student given by MPCST, Bhopal.</li> <li>▪ One of my Ph.D. students Mr. Prabal Bandyopadhyay received <b>Third Prize in Poster Presentation</b> in “International Conference on Chemistry for Mankind (ICCM-2011)”, held at Nagpur, India during 09-11 Feb., 2011.</li> <li>▪ Frequently serving as the reviewer to review the papers received from various international and national journals.</li> <li>▪ Grant generated through a number of research projects (<b>CSIR, DST, UGC, MPCST, DRDO</b>) is an acclamation to my research activities.</li> <li>▪ Visited Hungary and delivered lectures on <b>“Modern Aspects of Spectroscopic Techniques”</b> and <b>“Supramolecular Chemistry”</b> at University of Pecs, Hungary during Nov. 2008</li> <li>▪ Visited <b>“State Research Institute for Viticulture and Pomiculture, Wiensberg, Germany”</b> in context of a research project in 2008.</li> <li>▪ Attended a <b>“National Workshop on Green Chemistry”</b> held at NEERI, Nagpur, Sponsored by DST, New Delhi.</li> <li>▪ Delivered “Invited Talk” in a <b>National Conference on</b></li> </ul>
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**Electrodics and Electrode Kinetics** held at Jiwaji University, Gwalior.

- Served as the **Member of Jury Committee** to evaluate presentations of young scientists in a conference held at Jiwaji University, Gwalior during 25-27 Nov., 2005.
- Invited to hold the position of the Chair Person in Annual Convention of Chemists held at Delhi University, Delhi during 23-27 Dec., 2004.
- One of my Ph.D. students Mr. Nilesh Rane received the prestigious Indian Science Congress **“ISCA Award, 2005”** for his best presentation in 92<sup>nd</sup> Indian Science Congress held at Ahmedabad during 3-7Jan., 2005.
- Mr. Nilesh Rane also honoured for his best presentation by **Royal Society of Chemistry (RSC) award 2005** for India Chapter.
- Mr. Nilesh Rane also received Young Scientist Award for his best paper presentation by Indian Council of Chemists held at Mumbai during 29-31 Oct., 2004.
- My student Mr. Nilesh Rane has presented a paper in 20<sup>th</sup> International Congress of Heterocyclic Chemistry, Palermo, Italy, 31July-5Aug, 2005 and obtained financial assistance from CSIR and DST, New Delhi for his visit.

**Reviewer for the Peer Reviewed Journals :**

- Indian J. Chemistry (Section B) NISCOM, CSIR Publication, Delhi.
- Journal of Scientific and Industrial Research, CSIR, Dehli.
- Indian Journal of Heterocyclic Chemistry.
- Indian Journal of Chemical Technology, CSIR, New Delhi
- Bioorganic Medicinal Chemistry, Elsevier Publ.
- Bioorganic Medicinal Chemistry Letters, Elsevier Publ.
- European Journal of Medicinal Chemistry, Elsevier Publ.
- Catalysis Communications, Elsevier Publ.
- International Journal of Chemical Kinetics, Wiley Inter Science
- Medicinal Chemistry Research, Springer
- European Journal of Medicinal Chemistry, Elsevier Publ.
- International Journal of Environment and waste management, Interscience Publ.
- Archiv der Pharmazie, Wiley-VCH
- Journal of Hazardous Materials, Elsevier Publ.
- Canadian Journal of Chemistry, NRC Press, Canada
- Industrial & Applied Chemistry Research, ACS Publ.
- Phosphorus, Sulphur, Silicon & Related Elements, Taylor & Francis

	<ul style="list-style-type: none"> <li>▪ Journal of Taiwan Institute of Engineers, Elsevier Publ.</li> <li>▪ Journal of Organic Chemistry, ACS Pub.</li> </ul>
<b>Research Publications</b>	<p><b>Annexure III</b></p> <ul style="list-style-type: none"> <li>• <i>National/ International</i> : 120 (h-index: 19)</li> <li>• <i>Conferences/ Seminars/ Workshops</i> : 113</li> </ul>

### Annexure I

**Following Students have been awarded / registered their Ph.D. degree under my Supervision:**

S.No.	Name of the student	Year of Award	Financial support
1.	Dr. Archana Dave	1994	-
2.	Dr. Sapna Bhattacharya	1995	-
3.	Dr. Neeta Kapoor	1997	-
4.	Dr. Priti Indapurkar	1999	UGC, New Delhi
5.	Dr. Shreeya Pritmani	2000	CSIR, New Delhi
6.	Dr. Anupam Mandloi	2003	MPCST, Bhopal
7.	Dr. Shikha Sharma	2005	-
8.	Dr. Priti Pandey	2005	-
9.	Dr. Nilesh Rane	2007	-
10.	Dr. Manisha Sharma	2007	-
11.	Dr. Siya Upadhyay	2008	-
12.	Dr. Vinita Sahu	2011	CSIR, New Delhi
13.	Dr. Jitendra Singh	2014	-
14.	Dr. Prabal R.Bandyopadhyay	2014	DRDO, New Delhi
15.	Dr. Sandeep Narad	1995	CSIR New Delhi Research Associate

## Annexure II

### U.G.C. Programmes Telecasted on DD-1 National Network Channel:

I have prepared a number of U.G.C. programmes prepared at A.V.R.C./ EMRC Indore, which have been demonstrated by myself on the screen and telecasted many times by DD-1 National network channel.

- Gravimetric Estimation of Barium (1995)
- Demonstration of Acetylation (1995)
- Preparation of Aspirin (1996)
- Polymers: A Scenario of Origin (1995)
- Paracetamol: An Antipyretic Analgesic Drug (1996)
- Pradushan (1999)

### PROJECTS ONGOING/COMPLETED:

#### No. of Projects Sanctioned: 15

• DST, New Delhi	: 01
• CSIR, New Delhi	: 03
• UGC, New Delhi	: 02
• MPCST, Bhopal	: 02
• DRDO, New Delhi	: 02
• SRF (Open) CSIR, Delhi	: 02
• NET-JRF/SRF (Open) CSIR, Delhi	: 01
• NET-JRF(Open) UGC, Delhi	: 01
• UGC-MANF-JRF (Open)	: 01

### 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
<b>Total</b>	:	<b>Rs.4,04,295/-</b>

- 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
<b>Total</b>	:	<b>Rs. 2,14,373/-</b>

### **U.G.C. PROJECT**

- 3) A Facile Electroorganic Synthesis of Novel 3-Substituted  $\alpha$ -Diketones and  $\alpha$ -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
<b>Total</b>	:	<b>Rs. 1,48,200/-</b>

- 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
<b>Total</b>	:	<b>Rs. 1,42,200/-</b>

### **II. CSIR PROJECT**

- 5) 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
<b>Total</b>	:	<b>Rs 10,46,000/-</b>

### **III. DST GOVT. OF INDIA, NEW DELHI**

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

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

### **IV. DRDO, GOVT. OF INDIA, MINISTRY OF DEFENCE, NEW DELHI**

- 7) Design, synthesis electrochemical studies and evaluation of therapeutic potential of purines and Benzimidazoles through quantitative structure activity relationship

a) Sanction No.	:	Ref. ERIP/ER/0703685/M/01/1091 Dated 25-9-2008
<b>Total (in Rs.)</b>	:	<b>Rs. 17,20,000 /-</b>

## V. DRDO, GOVT. OF INDIA, MINISTRY OF DEFENCE, NEW DELHI

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

- a) Ref. : ERIP/ER/1103024/M/01/1476 Dated 30-05-2013
- b) Period of the Project : 3 Years (03-09-2013 to 02-09-2016)
- Total : Rs. 44,84,000/-**

## VI. MPCST PROJECT

### 9) 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/-**

### 10) 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)
- Total : Rs. 7,80,000/-**

## VII. CSIR PROJECT (open) (NET-JRF/SRF)

### 11) 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

### 12) Hydroamination, Synthetic and Biological Evaluation Studies of $\beta$ -Lactam and Indole Derivatives

- a) Ref. : F.No.09/301(0132)2016-EMR-I dated 01-04-2017
- b) Period of the Project : 2 Years
- c) Staff. (SRF) : Rs.3,36,000/-per annum
- d) Contingency : Rs.20,000/- per annum



## VIII. UGC PROJECT (open) (NET-JRF)

### 13) Synthetic, Biological and Electrochemical Studies of Heterocycles Embracing Pyridine Scaffold

- a) Ref. : F1-17.1/2017-18/MANF-2017-18-MAD-73866 /(SA-III/Website) dated 01-04-2017  
b) Period of the Project : 2 Years  
c) Staff. (JRF) : Rs.3,00,000/-per annum  
d) Contingency : Rs.12,000/- per annum

### 14) Studies on Synthetic Methods for Development of Some Derivatized Pyrazole Systems and Evaluation of their Biological Potential Profile

- a) Ref. : UGC Ref. No. 6/(ST) (CSIR-UGC NET DEC.2016) dated 01-04-2017  
b) Period of the Project : 2 Years  
c) Staff. (JRF) : Rs.3,00,000/-per annum  
d) Contingency : Rs.12,000/- per annum

## Annexure III

### LIST OF RESEARCH PUBLICATIONS

#### Papers in National and International Journals

1. Synthesis and Photophysical Properties of  $\alpha$  -Pyrone-fused-pyrido[3,2,1-jk]carbozalone Derivative: DFT/TD-DFT Insights  
Monika Ahuja, Soumen Biswas, **Pratibha Sharma** and Sampak Samantha  
Chemistry Select, 3, 4354-4360 (2018)  
Impact factor: 1.505  
Publisher: Wiley
2. 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)
3. 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

4. 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)
5. 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
6. 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
7. 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.
8. 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)
9. 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)
10. 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)

11. 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)
12. 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)
13. Contribution of reactivity indexes in the formation of  $\beta$ -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)
14. 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)
15. 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.  
Nitin Dubey, **Pratibha Sharma**, Ashok Kumar  
Synthetic Communications 45 (22), 2608-2626 (2015)  
Publisher: Taylor & Francis
16. Structural insights for substituted acyl sulfonamides and acyl sulfamides derivatives of imidazole as angiotensin II receptor antagonists using molecular modeling approach  
Mukesh C 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)
17. 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)

18. 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)
19. 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)
20. 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., 4, 6638-6645, (2014)  
(Impact factor 3.289)  
Publisher: Royal Society of Chemistry (England)
21. 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)
22. 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  
Medicinal Chemistry Research, (**Springer**) 23, 3569–3584 (2014)  
(Impact factor 1.43)  
Publisher: Springer (United States)
23. 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)
24. QSAR and microbial studies on synthesized 2, 3 diphenylquinoline derivatives  
**Pratibha Sharma**, Premansh Dudhe, Ashok Kumar  
Drug Invention Today 6(2), 127-140 (2014)  
Publisher: Elsevier (England)

25. Synthesis and Evaluation of Antioxidant Properties of Some Synthesized Quinazoline and 1, 4-Diazepine Derivatives  
**Pratibha Sharma**, Premansh Dudhe, Ashok Kumar  
Journal of Pharmacy Research 8 (10), 1355-1363 (2014)
26. 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, 22(5), 2476–2485 (2013)  
(Impact factor 1.43)  
Publisher: Springer (United States)
27. Exploration of Cardioprotective potential of *N*, $\alpha$ -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 (U.S.A)
28. 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, 5772–5788, (2013)  
(Impact factor 1.43)  
Publisher: Springer (United States)
29. 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)
30. 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)
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#### **Papers in Seminars / Conferences**

1. Molecular interaction and antibacterial evaluation studies of substituted oxazolo[4,5-b]pyridine derivatives  
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Ashok Kumar, **Pratibha Sharma** and Nitin Dubey  
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3. NBS/Oxone Catalyzed One Pot Synthesis of 2-Substituted Benzimidazoles  
Ujla Daswani, **Pratibha Sharma** and Ashok Kumar  
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5. An efficient ,Heterogeneous, Clay –Supported Cu(II) Mediated Catalytic Synthesis of Triazoles Using Click Chemistry Approach  
Ashok Kumar and **Pratibha Sharma**  
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6. Copper catalyzed novel synthesis of 1, 4-disubstituted-1, 2, 3-triazoles: A Click Chemistry Approach  
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12. Hexaquaaluminium(III) tetrafluoroborate: a recyclable, non-hygroscopic acid catalyst for the efficient synthesis of poly-substituted quinolines *via* Friedlander heteroannulation.  
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13. Exploration of Antibacterial and Antifungal Activities of Newly Synthesized 1,2,3-Triazole Derivatives  
Ashok Kumar, **Pratibha Sharma** and Nitin Dubey  
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14. Exploration of mesoporous mixed metal oxide nanocatalyst as efficient and recyclable heterogeneous catalysts for the synthesis of polysubstituted benzimidazole derivatives  
**Ashok Kumar**, Pratibha Sharma, Prabal Bandyopadhyay, Ujla Daswani  
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18. Studies on synthesis, antioxidant activity and electrochemical behaviour of 3-(aryldiazanyl)-2-phenyl-2,3-dihydro-4*H*-chromen-4-one  
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19. A facile and rapid one-step synthesis of 8-substituted xanthine derivatives via tandem ring closure of imidazole ring at room temperature  
Prabal Bandyopadhyay, Manisha Sathe, **Pratibha Sharma**, Ashok Kumar, M. P. Kaushik.  
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Ashok Kumar, **Pratibha Sharma**, Prerna Kumari, Pawan Sharma.  
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Prabal Bandyopadhyay, Manisha Sathe, S. Ponmariappan, A. Sharma, **Pratibha Sharma** and M. P. Kaushik  
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25. A computational study of [2+2] cycloaddition: Staudinger reaction  
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27. Synthesis and Docking studies of 6-(2,2-diphenylethenyl)-9-phenyl-2-thiol-9H-purine as p38 MAP Kinase Inhibitor  
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29. A facile Synthesis of 7-(3-ethyl-isoxazol-5(4H)-one-4-yl)-2-hydroxy-8-(2-methylprop-1-en-1-yl)-purine and prediction of their bonding modes  
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30. Protein- Ligand Docking Studies On Newly Synthesized Benzimidazole Derivatives as DPP-4 Inhibitor  
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  33. Synthesis and Evaluation of Anti-inflammatory Potential of 5-(2-furyl)-2-phenyl-4 [(E)-phenyldiazenyl]cyclohexane-1,3-diones  
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  34. Impact Of Global And Local Electrophilicity Descriptors On Hetero-Diels-Alder Cycloaddition  
**Pratibha Sharma**, Vinita Sahu, Bhavna Parik  
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  35. Synthesis and Biological Screening of N-[1-(4-ethoxy phenyl)-2-oxoazetidin-3-yl]benzamide Derivatives  
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  36. Hetero Diels-Alder Cycloaddition: A computational study  
**Pratibha Sharma**, Vinita Sahu and Jitendra Singh  
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  37. Synthesis and Biological Screening of a new series of Monolactam Derivatives  
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96<sup>th</sup> Indian Science Congress, Shillong (2009)
  38. A Unique Approach towards Quantitative Characterization and Correlation of Hetero Diels-Alder Cycloaddition through Global and Local Electrophilicity Parameters  
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96<sup>th</sup> Indian Science Congress, Young Scientist Competition, Shillong (2009)
  39. A Density Functional Study of Hetero-Diels-Alder Reactions using Global and Local Descriptors  
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27<sup>th</sup> Indian Council of Chemists, (OO-CYSA-07) Haridwar (2008)
  40. A Facile Synthesis of 8-(2-methyl prop-1-ene-1-yl)-7[ 4-(3-methyl-5-oxy-N-carbonyl-pyrazolyl)]-7H-purin-7-yl using Calixarene based PTC system.  
**Pratibha Sharma**, Vinita Sahu and Jitendra Singh  
26<sup>th</sup> Indian Council of Chemists, (OO-CYSA-09) Sagar (2008)
  41. Synthesis and Antimicrobial Screening of Spiro-2-[3'-(2'-phenyl)-3H-indolyl]-1-(2''-ethyl)phenyl-3-phenylaziridines

- Pratibha Sharma**, Siya Upadhyay, Vinita Sahu and Jitendra Singh  
96<sup>th</sup> Indian Science Congress, Vishakhapatnam p 74, 114, (2008)
42. HDA Strategy to Synthesize Tetrazines and their Characterization at Semiempirical level  
**Pratibha Sharma**, Ashok Kumar, Vinita Sahu, Jitendra Singh  
10<sup>th</sup> Chemical research society of India, No. 112, Bangalore, Feb, (2008)
43. Hetero Diels Alder Cycloaddition and Frontier Orbital Studies of Tetrazines  
**Pratibha Sharma**, Vinita Sahu and Jitendra Singh  
Fourth Madhya Pradesh Science Congress, p 67-71 (2007)
44. Electrochemical Studies and Characterisation at Semiempirical Level: A Coupled Approach toward Tetrazines Synthesis  
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Greener Aspects of Electrochemistry (GAELEC-2007)
45. Electrochemistry as a Tool to Identify and Characterize Azo Compounds in Pharmaceutical Samples and Industry Effluents  
**Pratibha Sharma**, Siya Upadhyay, Vinita Sahu and Jitendra Singh  
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46. Synthesis of 1-isoxazolyl-2- [2'-methyl-prop-1-en-1-yl] imidazo [4,5-b] pyridine using Calixarene based Phase Transfer Catalytic System  
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47. Synthesis and Antimicrobial Screening of Spiro-2-[3'-(2'-phenyl)-3H-indolyl]-1-(2''-ethyl)phenyl-3-phenylaziridines  
**Pratibha Sharma**, Siya Upadhyay, Vinita Sahu and Jitendra Singh  
95th Indian Science Congress, Vishakhapatnam (2007)
48. Insertion–cyclization reactions of carbene to synthesize pharmacologically significant benzimidazoles under PTC condition and their QSAR modeling as potential Antibacterials  
**Pratibha Sharma** and Varsha Sharma  
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49. Strategy to synthesized pharmacologically significant benzimidazoles under PTC condition and studies on their QSAR modeling as potential antibacterials.  
**Pratibha Sharma**  
9<sup>th</sup> Chemical Research Society of India, New Delhi, p 211 (2007)
50. Strategies to Synthesise Pharmacologically Significant 6,6-dimethyl–5a-[(E)-(aryl)diazenyl]-3,4,6,tetrahydro-2H-1,4-benzodiazepines-5,8(5H,9H)-dione and their QSAR Modeling  
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51. In vitro biological evaluation of [1,4] -diaz-2-phospholo-8-hydroxy[4,5-a]3-substituted pyridines  
**Pratibha Sharma, Shikha Sharma**  
 94<sup>th</sup> Indian Science Congress Conference Annamalainagar, Chidambaram, p 93, 138,(2007)
  
52. Synthesis, Characterization and biological evaluation studies on [1[(2'-bromobiphenyl-1-yl) methyl]-3-[(2'-bromobiphenyl-3-yl) thio]-5-methyl-1-H-1, 2, 4-Triazole.  
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 94<sup>th</sup> Indian Science Congress Conference Annamalainagar, Chidambaram, p 130, 203,(2007)
  
53. Electrochemical behaviour of new 4,4 dimethyl-4a-[(4-chloro phenyl)diazenyl]-2-thioxo-1,2,3,4,4a,6-hexahydro-5H-pyrimido[4,5 -b][1,4] benzodiazepine-5-one at glassy carbon electrode  
**Pratibha Sharma and Varsha Sharma**  
 94<sup>th</sup> Indian Science Congress Conference Annamalainagar, Chidambaram, p 144, 223, (2007)
  
54. Synthesis and biological activities of 1-(4-bromophenylazo)-2'3-diphenylspiro-2,3'-indoyl aziridines  
**Pratibha Sharma, Ashok Kumar and Siya Upadhyay**  
 43<sup>rd</sup> Annual Convention of Chemists "Indian Chemical Society" (2006)
  
55. QSAR Studies of New Pyrimido [4, 5-B] [1, 4] Benzodiazepine- 5-One Derivatives  
**Pratibha Sharma, Ashok Kumar and Varsha Sharma**  
 43<sup>rd</sup> Annual Convention of Chemists "Indian Chemical Society" (2006)
  
56. Synthesis and electrochemical behaviour of new 1-amino- (2-nitro phenyl) diazenyl Pyrimido [6, 1, -b] [1, 3, 5] benzotriazepine-1, 3 - (2H, 4H)-dione triazepine at glassy carbon electrode  
**Pratibha Sharma and Varsha Sharma**  
 25<sup>th</sup> Annual Conference of Indian Council of Chemists, Birla College ,Kalyan, Mumbai PO-14 (2006)
  
57. Synthesis and QSAR exploration studies of some condensed pyrimido [4,5-d]pyrimidines as potential antimicrobial agents  
**Pratibha Sharma, Ashok Kumar and Nilesh Rane**  
 20<sup>th</sup> International Congress of Heterocyclic Chemistry, Palermo, Italy, 31July-5Aug, (2005)
  
58. Synthesis and in vitro Antimicrobial screening of 4'-(2-chlorophenyl)-3-(4-nitroarylazo)-6-(3-chlorophenyl)-7-thioxo-4,6,7,8-tetrahydro-1H,3H-pyrimido[4,5-d]pyrimidin-2,5-dione  
**Pratibha Sharma, Ashok Kumar and Nilesh Rane**  
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59. Synthesis and Antimicrobial activity of 2-acetyl-2-ethoxy carbonyl-1-[4'(2-bromophenylazo)-N,N-dimethyl aminophenyl]-3-phenylaziridine.

Pratibha Sharma, **Ashok Kumar and Siya Upadhyay**  
**Indian Science Congress, Ahmedabad, OP-53 (2005)**

60. Synthesis and Biological Screening of 2-Phenyl-4(3'-nitrophenylazo)-phenyl-3-thioxo-1,2,3,4-tetrahydro-2H-2,4,9,10-tetraazaphenanthrene-2-one  
Pratibha Sharma, **Ashok Kumar and Manisha Sharma.**  
**Indian Science Congress, Ahmedabad, OP-38 (2005)**
61. Electrochemical Investigation of 1-Dichlorophosphino-2-phospha-3-phenyl-4-mercaptos-5-aza-6-hydroxy-7-(3'-nitro)phenylindolizine  
Pratibha Sharma, **Ashok Kumar and Shika Sharma**  
**Indian Science Congress, Ahmedabad, OP-37 (2005)**
62. Synthesis and Electrochemical Investigations of 3-(4'-chloro)-phenylazo-5,7-dimethyl-1,3-dihydro-1*H*-1,4-benzodiazepin-2-one  
**Ashok Kumar, Pratibha Sharma and V. K. Gurram**  
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63. Synthesis and Electrochemical investigations of 2-acetyl-2-ethoxy carbonyl-1-[4'-(3-methoxy phenylazo)-N,N-dimethyl amino-phenyl]-3-phenylaziridine  
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64. Synthesis and redox chemistry of 4'-(2-chlorophenyl)-3-(aryloxy)-6(2-methoxyphenyl)-7-thioxo-4,6,7,8-tetrahydro-1*H*,3*H*-pyrimido[4,5-*d*]pyrimidin-2,5-dione  
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65. Synthesis and antimicrobial screening of 2-phenyl-4-(3'-methylphenylazo) phenyl-3-thioxo-1,2,3,4-tetrahydro-2*H*,2,4,9,10-tetraaza phenanthrene-1-one  
Pratibha Sharma, **Ashok Kumar and Manisha Sharma.**  
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66. An expeditious synthesis and electrochemical studies on 3-(4'-methyl)- phenylazo-5,7-dimethyl-1,3-dihydro-1*H*-1,4-benzodiazepin-2-one  
**Pratibha Sharma and V.K.Gurram**  
**Indian Chemical Society, 41<sup>st</sup> annual Convention of Chemists, Delhi, OP-59, (2004).**
67. Synthesis and Electroreduction Studies On 3-aryloxy-5,7-dimethyl-1,3-dihydro-1*H*-1,4-benzodiazepin-2-ones  
Pratibha Sharma, **Ashok Kumar and V.K.Gurram**  
**Madhya Pradesh Science Congress-2004, OP-116.**
68. Pyrimido[4,5-*d*]pyrimidine as a new class of antimicrobial agent : Design, synthesis and QSAR modelling  
**Pratibha Sharma and Nilesh Rane**  
International Conference on Chemistry Biology Interface: Synergistic New Frontiers, New Delhi, PP22-36(2004)



69. Synthesis and QSAR studies of 4-(2-Chlorophenyl)-3-(2-bromophenylazo)-6-aryl-7-thioxo-4,6,7,8-terahydro-1H,3H-pyrimido[4,5-d]pyrimidine-2,5-dione.  
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70. Synthesis and electrochemical studies of 1-[2-(3-chlorophenylazo)-5-methyl-1-vinyl-2,3-dihydro-1H,1,2,3-triazole-4-yl] ethanone.  
**Pratibha sharma**, Ashok Kumar and Siya Upadhyay.  
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71. Synthesis and electrochemical reduction of 2-phenyl-4-(3'-chlorophenylazo) phenyl-3-thioxo-1,2,3,4-terohydro-2H,2,4,9,10-teraazophenanthrene-1-one.  
**Pratibha sharma**, Ashok Kumar and Manisha Sharma.  
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72. Synthesis of some condensed pyrimido[4,5-d] pyrimidines as Potential antineoplastic agents.  
**Pratibha sharma**, Ashok Kumar , Nilesh Rane And Vamsi Krishna  
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73. Synthesis and Biologically Evolution of 2-[(1-dichlorophosphino azaphospholo [1,5-a]pyridin-5-yl]hydrazono}-3-ethoxy-3-oxopropionic acid.  
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74. Synthesis and Electrochemical Investigations on 2-[(1-dichloro-phosphino azaphospholo [1,5-a] pyridin-5-yl] hydrazono}-3-ethoxy-3-oxopropionic acid.  
**Pratibha sharma**, Ashok Kumar and Shikha Sharma.  
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75. Synthesis and Antimicrobial Screening of 6-methyl-7 [nitro bromo amino] 5,7- dihydro-2H purine-2,8(3H)-dione.  
**Pratibha Sharma** , Ashok Kumar and Shikha Sharma.  
Indian Chemical Society, 40th Annual Convention of Chemists, Jhansi PP-44 (2003).
76. Electrochemical Behaviour of 1-dichlorophosphino-2-phospha-3-benzyl-4-mercapto-5-aza-7- (4-acetyl) phenyl azo indolizine at dropping mercury electrode and glassy carbon electrode.  
**Pratibha sharma**, Ashok Kumar and Shikha Sharma.  
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77. Synthesis and Antimicrobial Screening of 7-[(2-Hydroxy phenyl) (nitro) amino] 6-methyl-1H-purine-2,8(3H, 7H) dione.  
**Pratibha sharma**, Ashok Kumar and Shikha Sharma.  
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**Pratibha Sharma** and Priti Pandey  
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100. Synthesis and Electrochemical Studies of Azetidines and their Precursors.  
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103. Electrochemical Investigations on Metal Complexes of N'-n-butyl-urea [Tolbutamide]: an oral hypoglycemic Agent.  
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105. Synthesis and TLC Studies on some N-phenyl-sulphamoyl-pyrimidino arylazopyrazoles.  
**Pratibha Pandey**, Archana Dave, and Sapna Bhattacharya  
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106. Influence of Different Solvents and their Composition on Electrochemical Reduction of some Benzothiazoylpyrimidines.  
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107. Investigation of electrochemical reduction behaviour of benza thiazolylazo pyrimidines.  
**Pratibha Pandey** and Rajeev Jain  
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108. Synthesis, Characterization and Catalytic Activity of some Fe (III) Complexes.  
**Pratibha Pandey**  
Third M.P. Young Scientist Congress, Gwalior, 1988.
109. Polarographic Studies on some Arylazopyrimidinylylpyrazoles.

**Pratibha Pandey**

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110. Polarographic Investigations on some Coupled Products of Aromatic amines.  
**Pratibha Pandey** and Rajeev Jain  
74th Session of Indian Science Congress Association, Bangalore, 1986.
111. Polarography as a Technique in Elucidating the Structure of Organic Compounds.  
**Pratibha Pandey**  
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112. Influence of Different Solvents and their Composition on Polarographic Reduction of some Arylazopyrimidinylpyrazoles.  
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