Curriculum Vitae: Prof. Vaishali S. Shinde

1.	Name of the faculty:	Dr. Vaishali S. Shinde
2.	Name of the Department:	Department of Chemistry
3.	Educational qualifications:	M. Sc. Ph.D
4.	Present position:	Professor
5.	Address for correspondence:	Department of Chemistry, Savitribai Phule Pune University, Pune – 411 007, Maharashtra, India.
6.	E-mail :	vsshinde@chem.unipune.ac.in vaishali.san@gmail.com
	contact number:	+91-20-25601395 Extn : 303 Mob.: 9763583089
7.	Specialization:	Organic Chemistry
8.	Total teaching experience:	20 yrs
9.	Courses taught:	Reaction Mechanism, Stereochemistry, Spectroscopy (UV, IR, Mass and NMR including 2D NMR), Photochemistry, Free radicals, Carbenes, Carbohydrate Chemistry, Asymmetric Synthesis, Natural Product Chemistry, and Polymer Chemistry, etc.
10.	Research experience:	24 yrs (including Ph. D.)

11. **Awards /recognitions received**:

Sr.No.	Award	Year
1.	Fellow of Maharashtra Academy of Science (F**MASc**),	Dec. 2018
2.	Recipient of Young Associate award of Maharashtra Academy of Science (**MASc**),	Nov. 2014
3.	Recipient of Scholarship under Erasmus Mundus **INDIA4EU** programme of European Commission at Alma Mater Studiorum Università di Bologna, Italy	May, 2014
4.	Recipient of Scholarship under Erasmus Mundus **EXPERTS III** programme of European Commission at Uppsala University, Sweden	August 2013
5.	Recipient of Young Scientists Research Award - DAE, Trombay, Mumbai	March 2009
6.	Recipient of "Better Opportunities for Young Scientists in Chosen Areas of Science & Technology (BOYSCAST)" fellowship of DST, New Delhi	March 2006
7	Recipient of Young Scientists Award, DST-SERC, New Delhi	Nov. 2004
8.	Recipient of Senior Research Fellowship (SRF), CSIR, New Delhi,	June 1998

12**. Research Projects:**

Sr. No.	Title	Funding Agency	Period	Grant (Rs. in Lakh)
1.	Design and Synthesis of New Glycopolymers	DST, New Delhi	3 Yrs (2004 - 07)	12.68
2.	Glyco-polymeric Gels: Synthesis and Swelling Studies of Copolymer of Sugar Acrylamide and NIPA	BCUD, UoP	2 Yrs (2006-08)	3.00
3.	Design and Synthesis of Smart Polymers as Extractant For Metals Ions	DAE, Mumbai	3 Yrs (2010-2012)	16.90
4.	Synthesis of some antiviral benzimidazole nucleosides and their analogues	DST, New Delhi	3 Yrs (2010-2012)	20.48
5.	Stereocontrolled synthesis of biologically active six membered lactones	BCUD, UoP	2 Yrs (2009-11)	2.00
6.	Synthesis and Evalution of Novel Extractant for Actinide partitioning	BARC, Mumbai	3 Yrs (2008-11)	0.75
7.	D TIN CPP IMPs 06	Cheminova India Ltd., Mumbai	05 months (Feb. 2011-July 2011)	2.76
8.	Syntheses, structures and properties of metal complexes with 2-substituted benzimidazoles	BCUD, SPPU	2 Yrs (2012-14)	2.70
9.	Synthesis of biologically active polyhydroxylated azetidine and azocane alkaloids	CSIR, New Delhi	3 yrs (2015-2018)	6.0
10.	Hydrogels-metal nanoarchitectures for promising biomedical application	BARC, Mumbai	5 Yrs (2013-18)	13.36
11.	Design and Synthesis of Smart Polymers as Extractant For Metals Ions	DAE, Mumbai	3 Yrs (2010-2013)	16.90
12.	Nanoparticle embedded biodegradable microgels for potential anticancer drug delivery system	SERB-DST	2015-2018	30.00

13. Number of students awarded Ph.D. degree: 10

Sr. No.	Name of the student	Topic of research	Date of registration	Date of Declaration
1	Dr. Vishwas Pawar	Synthesis and Bioevaluation of 3-Hydroxypiperidines, α-Hydroxylactones and Synthesis of Thermosensitive Glycopolymers	21st Oct. 2005	17th Feb. 2011

		from D-Glucose		
2	Dr. Ajay Patil	Synthesis and evaluation of Actinide partitioning Agents	12th June 2010	15th Oct. 2013
3.	Dr. Vyankat Sontakke	Synthesis and Bioevaluation of Benzimidazoles, their Nucleosides and Stability Study of Nucleotide Prodrugs	14th June 2011	9th Sept., 2015
4.	Dr. Deepanjali Gurav	Biopolymer Based Theranostic Agents for Anticancer activity and	13th March 2012	18th Dec., 2015
5.	Dr. Sashikant Bhorkade	Synthetic Studies towards Aminocyclitol, Polyhydroxy Octahydroindole, Lysidicin A and Mutisianthol	June 2011	5th Feb., 2016
6.	Pravin Lawande	Synthesis and Bioevaluation of Polyhydroxylated Azetidine Iminosugars and Benzimidazole Nucleosides from D-Glucose	23rd March 2013	27th Feb. 2017
7.	Anant Kangare	Polymeric composites for extraction of metals and development of the gold nanoparticles for biomedical sensing applications	23rd March 2013	21st Dec. 2017
8.	Tukaram Urmode	Synthetic Studies towards Derivatives of Prenostodione, Nostodione A, Carbolines, Azacarbolines and High Energy Materials - TNAD and CL-20	27th August 2015	1st June 2018
9.	Anuja Kulkarni	Silver Nanoparticles Containing Glycogels and Curcumin Loaded Microgels, Nanofibers for Biomedical Applications	5th April 2013	1st Oct. 2018
10.	Archana Dhumare	Click Chemistry Approach Towards Synthesis of Triazole containing Disaccharides, Glycopolymers and Their Applications	5th April 2013	21st Nov. 2018

14. Number of students registered for Ph.D. degree: 04

Sr. No.	Name of the student	Topic of research	Date of registration
1	Mr. M. P. Raghav Rao	Phenolic resin	5th July 2016
2	Mr. Kamlesh Lodha	Synthesis of bioactive molecules	5th July 2016
3	Mr. Sunil Patil	Synthesis of fluorinated compounds	7th Sept. 2018
4	Mr. Nilesh Gosavi	Synthesis of organic bioactive molecules	7th Sept. 2018

15. **Number of students awarded M.Phil. degree: 02**

Sr. No.	Name of the student	Topic of research	Date of Declaration
1	Ms. Madhavi Girme	Thermoresponsive Polystyrene-*b*-Poly(*N*-isopropylacrylamide) Copolymers by Atom Transfer Radical Polymerization	2012

2.	Ms. Prajkta Tanpure	Molecular Imprinted Polymers	2019

16. Participation in conferences, symposia, seminars and workshops:

Sr. No.	Title of the paper presented	Title of Conference / Seminar	Organized by	Whether international /National
1.	Curcumin loaded gelatin nanofibrous mats for wound healing application	MACRO 2018	IISER, Pune, NCL Pune, SPPU, Pune	International
2.	pH-responsive targeted and controlled doxorubicin delivery using hyaluronic acid nanocarriers	Advanced Polymers for Science and Technology (APST-2016), 24th -26th Oct. 2016	VIT Vellore	International
3.	Biopolymers based Theranostic Agents for anticancer activity	National Conference on Chemical Sciences: An Interdisciplinary Approach 18th -20th Jan 2018	(CSIA-2018), Modern College of Arts, Science and Commerce, Ganeshkhind, Pune	National
4.	IR-Spectroscopy and Problem solving on Spectroscopy	"Science Academies Refresher course in Chemistry' 27th Nov. to 11th Dec.2017	Modern College of Arts, Science and Commerce, Ganeshkhind, Pune	National
5.	Synthesis of Hetreocycles and Polymers from Carbohydrates	National Seminar on Heterocyclic Chemistry March 27-28, 2018	Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur	National
6.	1H-NMR: Tool for stereochemistry	State level conference on "Green Chemistry" sponsored by BCUD, Savitribai Phule Pune University 9th and 10th February 2016	Department of Chemistry of Shri Shiv Chhatrapati College of Arts, Commerce and Science, Junnar	State level
7.	Synthesis, Characterization and Thermal studies of New thermo-responsive glycopolymers and their Copolymers with N-isopropyl acrylamide	International symposium on Polymer Science and Technology, MACRO 2015, 23rd -26th January 2015	IACS, Kolkata	International

8.	Synthesis and anticancer activity of 2,5-disubstituted benzimidazoles	Practical applications of modern tools in Organic synthesis	IISER Pune	National workshop
9.	Synthesis and Stability of Nucleoside 3´,5´-Cyclic Phosphate Triesters Masked with Biodegradable and Thermo-labile Phosphate Protecting Groups	10^{th} International Symposium on Bio-Organic Chemistry (ISBOC-10)	IISER Pune	International Symposium
10.	Synthesis of Biologically Active Polyhydroxylated Azetidine Alkaloids	27^{th} International Carbohydrate Symposium – 2014 (12^{th} – 17^{th} January 2014)	Indian Institute of Science, Bangalore, India	International Symposium
11.	Fabrication of PNiAM hydrogel Silver Nanocomposite and its antibacterial activity-Poster	MACRO 23^{rd} -26^{th} January 2015	IACS Kolkata	International
12.	Designing and synthesis of polyhydroxylated Azocane as glycosidase inhibitors	9^{th} Junior national organic symposium trust (JNOST)	IISER, Bhopal Dec.6^{th} to 9^{th}, 2013; Poster	National Level
13.	Design and Synthesis of Smart Polymers as Extractant for Metals Ions	41^{st} BSC Meeting YSRAM symposium 26^{th} - 27^{th} Nov. 2012.	BARC, Mumbai	Nationa1
14.	Pulse Radiolysis study of Malonic acid diamide analogues for their evaluation as radical scavenging agents	National Symposium on Radiation and Photochemistry (NSRP 2013) March 20 -22 2013	North Eastern Hill Univ., Shillong (Meghalaya)	National
15.	Novel dipicolinamide-dicarbollide synergistic solvent system for actinide extraction	Nuclear and Radiochemistry Symposium (NUCAR-2013) Feb.19- 23^{th}, 2013;	Govt. Model Science College, Jabalpur, India	National Level
16.	Extraction Studies of Am(III) using Malonamides Dissolved in Ionic Liquids	Plutonium Futures July, 15^{th} to 20^{th}, 2012;	Cambridge Univ. London, UK	International conference
17.	Synthesis, anticancer evalution and QSAR studies of 2-arylbenzimidazoles	Perspectives of organic synthesis, 24^{th} March 2012	Dept. of Chemistry,UoP	National Symposium
18.	Synthesis of radiation induced hydrogels	Workshop on radiation and photochemistry	Dept. of Chem.,UoP	National level
19.	Synthesis of Glycopolymers, Natural Products and Nucleosides from Carbohydrates	Mini Symposium on Pune University Uppsala University (Sweden) Interactive meeting, on 28^{th} and 29^{th} Nov. 2011	Department of Chemistry, UoP	University Level
20.	Glycopolymers-Grafted Polystyrene Nanospheres	Two Day workshop on Carbohydrate based	National Chemical Lab.,	Nationa1

		chemical industry Aug. 17 and 18, 2011.	Pune	
21.	New synthesis for N,N'-dimethyl-N,N'-dioctyl-2,(2'-hexyloxyethyl) malonamide (DMDOHEMA) and its evaluation for actinide partitioning	NUCAR-2011, GITAM University, Visakhapatnam, Andhra Pradesh	BARC, Mumbai	Nationa1
22.	Efficient synthesis of important actinide partitioning agent N,N'-dimethyl-N,N'-dioctyl-2,(2'-hexyloxyethyl) malonamide (DMDOHEMA)	SESTEC-2010, Indira Gandhi Center for Atomic research, Kalpakkam	BARC, Mumbai	National
23.	New synthesis route for N,N'-dimethyl-N,N'-dioctyl-2,(2'-hexyloxyethyl) malonamide (DMDOHEMA)" and its evaluation under simulated high level waste conditions	CRSI Zonal Meeting 13-14th May 2011	National Chemical Laboratory, Pune	Regional Level
24.	Stereocontrolled synthesis of biologically active six membered lactones	Innovation 2010 22^{nd} , 23^{rd} March 2011	BCUD, Dept. of Chemistry, UoP, Pune	University level

17. Participation as a resource person:

Sr. No.	Title of Lecture / Academic Session	Title of Conference / Seminar etc	Organized by
1.	Synthesis, Characterization and Thermal studies of New thermo-responsive glycopolymers and their Copolymers with *N*-isopropylacrylamide	International symposium on Polymer Science and Technology, MACRO 2015, 23^{rd} -26^{th} January 2015	IACS, Kolkata
2.	NMR Spectroscopy as a tool for structure elucidation of organic compounds	Recent Trends & challenges in Chemical Scienec & Technology-2014, 28, 29- Dec. 2014	SMBST College, Sangamner, Ahmednagar
3.	Synthesis and Bioevaluation of 3-Hydroxypiperidines, α-Hydroxylactones and Synthesis of Glycopolymers from D-Glucose	Emerging Trends in Organic Chemistry 26^{th}, 27^{th} Dec. 2014	M. J. Shinde College, Shrigonda, Ahmednagar
4.	Glycopolymer Grafted Polystyrene Nanospheres	Seminar to the students of two different PhD Schools of UNIMI, 28^{th} May 2014	Dipartimento di Scienze Farmacologiche e Biomolecolari (DiSFeB) Università di Milano Milano, Italy
5.	Phase Transitions in Thermosensitive Polymers and Synthesis of Glycopolymers-Grafted Polystyrene Nanospheres	Seminar for Ph. D. students, 30^{th} May 2014	Dipartimento di Chimica 'G. Ciamician' Università di Bologna Bologna Italy
6.	Synthesis of 2-anthryl substituted	Hindi symposium on	National Chemical

	benzimidazole derivatives and their DNA cleavage, DNA binding and anticancer activity	organic synthesis 19th June 2014	Laboratory, Pune 411008, INDIA
7.	Applications of IR spectroscopy	Advanced spectral methods of analysis on 23rd Dec. 2013	D.P. Bhosale College, Koregaon, Satara,
8.	Chemical safety	Safety Symposium at IBB to be held on 3rd Nov 2012	Institute of Bioinformatics & Biotechnology (IBB), University of Pune
9.	Ultraviolet spectroscopy	Scope, opportunities, applications of Chemical Sciences; 2nd-3rd Mar. 2013	CIDCO College, Nashik
10.	Applications of IR spectroscopy	Workshop on materials characterization techniques October 03-07, 2012	Banasthali Vidyapith-304 022 (Rajasthan), INDIA
11.	IR-spectroscopy and its applications	Workshop on "Instrumental Techniques in Chemical Sciences" 25th, 26th Feb 2012	Dept. of Chemistry, BAMU-Aurangabad, Sub-campus Osmanabad
12.	Polymers and Research	Seminar on Recent Trends in Chemistry 17th , Feb. 2012	ACS College, Narayangaon

18. Participation in curricular development:

- SET Exam.: paper setter
- PET Exam.: paper setter
- Ph. D. Exam.: Referee for Pre-registration, Pre-synopsis, Viva-voce
- M. Phil Exam.: Paper setter, examiner
- M. Sc. Entrance Exam. and admission- Paper setter

Details of Seminars/ Conferences/Workshops organized at university, state, national and international level and the source of funding.

Sr. No	Name of Conference/ Seminars / Workshops	Funding agency	No. of Participants	University/State/National/ International	Dates
1	MACRO 2018	SPSI	600	International	19th -22nd Dec. 2018
2	Advanced Perspectives of Organic Synthesis	DST-PURSE	110	National	24th and 25th Feb 2018
3	Teaching Pedagogy in Medicinal Chemistry at Post-Graduate level"	BCUD SPPU	30	University	10th Dec., 2016
4	Prof. N. S. Narasimhan Endowment Lecture Series at the P. C. Ray Hall	Department of Chemistry	100	State	12th Aug. 2016

19. Research Publications:

45. Biginelli Reaction: Polymer Supported Catalytic Approaches
Rajendra Patil, Jagdish Chavan, Dipak S Dalal, **Vaishali S. Shinde**, and Anil Beldar
ACS Comb. Sci., **2019,** Just Accepted Manuscript • DOI: 10.1021/acscombsci.8b00120.

44. Platanus orientalis Leaf Mediated Rapid Synthesis of Catalytic Gold and Silver Nanoparticles
Shriya Shende , Komal A Joshi , Anuja S Kulkarni , Chaitanya Charolkar , **Vaishali S Shinde** , Vijay Singh Parihar , Rohini Kitture , Kaushik Banerjee , Narayan Kamble , Jayesh Bellare , and Sougata Ghosh
Journal of Nanomedicine & Nanotechnology, **2018**, 9, 2, 2157-7439

43. Litchi chinensis Peel: A Novel Source for Synthesis of Gold and Silver Nanocatalysts
Shriya Shende, Komal A Joshi, Anuja S Kulkarni, **Vaishali S Shinde**, Vijay Singh Parihar, Rohini Kitture ,Kaushik Banerjee, Narayan Kamble, Jayesh Bellare and Sougata Ghosh
Glob J Nanomed , **2017**, 3, 1.

42. Polyhydroxylated azetidine iminosugars: Synthesis, glycosidase inhibitory activity and molecular docking studies
Pravin P. Lawande, Vyankat A. Sontakke, Navanath M. Kumbhar, Tanay R. Bhagwat, **Vaishali S. Shinde**
Bioorganic & Medicinal Chemistry Letters, **2017,** *27*, 5291–5295

41. Synthesis of Ionically Crosslinked N-Succinyl Chitosan Hydrogel Beads for Recovery of Palladium from Acidic Aqueous Solution.
Anant B. Kanagare, J. K. Ajish, K. K. Singh, **V. S. Shinde**, M. Kumar
AJMC **2017**, 2, 60-68

40. Synthesis of D2EHPA Impregnated Polymeric Beads for Extraction of Zinc from Zinc-rich Waste Liquor
Anant B. Kanagare, K.K. Singh, M. Kumar, M. Yadav, R. Ruhela, A.K. Singh, A. Kumar, **V. S. Shinde**
Current Applied Polymer Science, **2017**, 1, 1-12

39. Synthesis of spiroindolone scaffolds by Pictet-Spengler spirocyclisation using β-cyclodextrin-SO 3 H as a recyclable catalyst
TD Urmode, MA Dawange, VS Shinde, RS Kusurkar
Tetrahedron, **2017,** *73*, 4348-4354.

38. DTDGA Impregnated XAD-16 Beads for Separation of Gold from Electronic Waste Solutions
Anant B. Kanagare, Krishan Kant Singh, Manmohan Kumar, Manoj Yadav, Ritesh Ruhela, Ajoy K. Singh, Asheesh Kumar, and Vaishali S. Shinde*
Industrial & Engineering Chemistry Research, **2016,** *55* (49), 12644−12654

37. Dioscorea oppositifolia Mediated Synthesis of Gold and Silver Nanoparticles with Catalytic Activity
Sougata Ghosh*, Sonal P Gurav, Ashwini N Harke, Maliyackal Jini Chacko, Komal A Joshi, Aarti Dhepe, Chaitanya Charolkar, **Vaishali Shinde**, Rohini Kitture, Vijay Singh Parihar, Kaushik Banerjee, Narayan Kamble, Jayesh Bellare and Balu A Chopade
J. Nanomed. Nanotechnol., **2016**, *7(5)*, 1000398.

36. Barleria prionitis Leaf Mediated Synthesis of Silver and Gold Nanocatalysts
Sougata Ghosh*, Maliyackal Jini Chacko, Ashwini N. Harke, Sonal P. Gurav, Komal A. Joshi, Aarti Dhepe, Anuja S. Kulkarni, **Vaishali S. Shinde,** Vijay Singh Parihar, Adersh Asok, Kaushik Banerjee, Narayan Kamble, Jayesh Bellare and Balu A. Chopade
J. Nanomed. Nanotechnol., **2016**, *7(2),* 1000394

35. Dithiodiglycolamide Impregnated XAD-16 Beads for Separation and Recovery of Palladium from Acidic Waste
A. B. Kanagare, K.K. Singh, K. K. Bairwa, R. Ruhela*,**V. S. Shinde**, M. Kumar*, A. K. Singh
Journal of Environmental Chemical Engineering, **2016**, 4 (3), 3357-3363.

34. 5-Mercuricytosine: An Organometallic Janus Nucleobase
Dattatraya Ukale, **Vaishali S. Shinde**, and Tuomas Lonnberg*
Chem. Eur. J., **2016**, *22,* 7917 – 7923.

33. *In situ* formation of silver nanoparticles in thermosensitive glycogels and evaluation of its antibacterial activity
Anuja S Kulkarni, Vaishali P Dhanwe, Archana B Dhumure, Ayesha Khan, **Vaishali S Shinde***, Pawan Kumar Khanna
Indian Journal of Chemistry A, **2016**, *55,* 441-446.

32. Antiproliferative activity of bicyclic benzimidazole nucleosides: synthesis, DNA-binding and cell cycle analysis
Vyankat A. Sontakke, Pravin P. Lawande, Anup N. Kate, Ayesha Khan, Rakesh Joshi, Anupa A. Kumbhar and **Vaishali S. Shinde***
Org. Biomol. Chem., **2016**, *14*, 4136–4145.

31. pH-responsive targeted and controlled doxorubicin delivery using hyaluronic acid nanocarriers
Deepanjali D. Gurav, Anuja S. Kulkarni, Ayesha Khan, **Vaishali S. Shinde***
Colloids and Surfaces B: Biointerfaces, **2016**, *143,* 352–358.

30. Gnidia glauca Leaf and Stem Extract Mediated Synthesis of Gold Nanocatalysts with Free Radical Scavenging Potential
Sougata Ghosh, Sumersing Patil, Niraja B. Chopade, Soching Luikham, Rohini Kitture, Deepanjali D. Gurav, Ajay B. Patil, Suvarna D. Phadatare, Vyankat Sontakke, Sangeeta Kale, **Vaishali Shinde**, Jayesh Bellare and Balu A. Chopade1*
J. Nanomed. Nanotechnol., **2016**, *7(2),* 1000358.

29. Synthesis of Potassium Nickel Hexacyanoferrate Encapsulated Polymeric Beads for Extraction of Cesium
Anant B. Kanagare, Krishan Kant Singh, G. Kiran Kumar, Vaishali S. Shinde, M. Kumar
International Journal of Innovative Research in Science, Engineering and Technology, **2016**, *5(1),* 265-273.

28. Total synthesis of (±) mutisianthol and (±) epi-mutisianthol via intramolecular oxidative Heck cyclization approach
Shashikant B. Bhorkade *, Kishor B. Gavhane, **Vaishali S. Shinde**
Tetrahedron, **2016**, *72,* 1954-1959.

27. Thermoresponsive copolymers with pendant D-galactosyl 1,2,3-triazole groups: synthesis, characterization and thermal behavior
Archana B. Dhumure, Ajay B. Patil, Anuja S. Kulkarni, Irina Voevodina, Mariastella Scandolab and **Vaishali S. Shinde***
New J. Chem, **2015,** 39, 8179-8187.

26. Synthesis of polyhydroxylated azetidine iminosugars and 3-hydroxy-*N*-methylazetidine-2-carboxylic acid from D-glucose
Pravin P. Lawande, Vyankat A. Sontakke, Roopa J. Nair, Ayesha Khan, Sushma G. Sabharwal, **Vaishali S. Shinde***
Tetrahedron, **2015,** 71, 5085-5090.

25. Synthesis, DNA interaction and anticancer activity of 2-anthryl substituted benzimidazole derivatives
Vyankat A. Sontakke, Anup N. Kate, Sougata Ghosh, Piyush More, Rajesh Gonnade, Navanath M. Kumbhar, Anupa A. Kumbhar, Balu A. Chopade and **Vaishali S. Shinde***
New J. Chem, **2015,** 39, 4882-4890.

24. A Novel Solvent System Containing a Dipicolinamide in Room Temperature Ionic Liquids for Actinide Ion Extraction
Ajay B. Patil, P. N. Pathak, V. S. Shinde, M. Yu. Alyapyshev, V. A. Babain,P. K. Mohapatra
Journal of Radioanalytical & Nuclear Chemistry (JRNC), **2015**, 1-8.

23. New extractant N,N′-dimethyl-N,N′-dicyclohexyl-2,(2′-dodecyloxyethyl) malonamide (DMDCDDEMA) for radiotoxic acidic wastes remediation: synthesis, extraction and supported liquid membrane transport studies
Ajay B. Patil, **Vaishali S. Shinde***, P. N. Pathak, P. K. Mohapatra
Separation and Purification Technology, **2015,** 145, 83–91.

22. Synthesis and Stability of Nucleoside 3′,5′-Cyclic Phosphate Triesters Masked with Enzymatically and Thermally Labile Phosphate Protecting Groups
Vyankat A. Sontakke, **Vaishali S. Shinde**, Harri Lönnberg, and Mikko Ora*
Eur. J. Org. Chem. **2015,** 389–394.

21. Evaluation of Malonic acid diamide analogues as radical scavenging agents
Ajay B. Patil, Sougata Ghosh, Suvarna D. Phadatare, Priyanath N. Pathak, Geeta K. Sharma, Balu. A. Chopade, **Vaishali S. Shinde***
New J. Chem, **2015**, 39, 1267-1273.

20. Diosgenin from Dioscorea bulbifera: Novel Hit for Treatment of Type II Diabetes Mellitus with Inhibitory Activity against α-Amylase and α-Glucosidase
Sougata Ghosh; Piyush More; Abhishek Derle; Ajay B. Patil; Pramod Markad; Adersh Asok; Navanath Kumbhar; Mahemud L. Shaikh; Boppana Ramanamurthy; **Vaishali S. Shinde**; Dilip D. Dhavale; Balu A. Chopade*
PLOS ONE, **2014,** 9, 1-9.

19. Synthesis and evaluation of N, N′-dimethyl-N, N′-dicyclohexyl-malonamide (DMDCMA) as an extractant for actinides
Ajay B. Patil, **Vaishali S. Shinde**, P. N. Pathak, P. K. Mohapatra
Separation Science and Technology, **2014,** 49 (18), 2927-2932.

18. A Novel Dipicolinamide-Dicarbollide Synergistic Solvent System for Actinide Extraction
Ajay B. Patil, Priyanath Pathak, **Vaishali S. Shinde*,** M. Yu. Alyapyshev, Vasiliy A. Babain, and Prasanta K. Mohapatra*
Radiochim. Acta **2014**, 102 (6), 481-487.

17. Phytochemical Analysis and Free Radical Scavenging Activity of Medicinal Plants Gnidia glauca and Dioscorea bulbifera
Sougata Ghosh, Abhishek Derle, Mehul Ahire, Piyush More, Soham Jagtap, Suvarna D. Phadatare, Ajay B. Patil, Amit M. Jabgunde, Geeta K. Sharma. **Vaishali S. Shinde,** Karishma Pardesi, Dilip D. Dhavale, Balu A. Chopade
PLOS ONE, **2013**, *8*, 1-18.

16. A simple, efficient synthesis of 2-arylbenzimidazoles using silica supported periodic acid catalyst and evaluation of anticancer activity
Vyankat A. Sontakke, Sougata Ghosh, Pravin P. Lawande, Balu A. Chopade, **Vaishali S. Shinde**[*]
ISRN Org. chem., **2013**, 1-7.

15. Evaluation of DMDOHEMA based supported liquid membrane system for high level waste remediation under simulated conditions;
Ajay B. Patil, Pankaj Kandwal, **V. S. Shinde***, P. N. Pathak, P. K. Mohapatra;
J. Membra. Sci., **2013**, *442*, 48–56.

14. Modified Synthesis Scheme for *N,N′*-dimethyl-*N,N′*-dioctyl-2,(2′-hexyloxyethyl) malonamide (DMDOHEMA) and its Comparison with Proposed Solvents for Actinide Partitioning;
Ajay B. Patil, **Vaishali. S. Shinde**, P. N. Pathak, P. K. Mohapatra, V. K. Manchanda;
Radiochim. Acta, **2013**, *101*, 93-100.

13. Efficient solvent system containing Malonamides in Room Temperature Ionic Liquids: Actinide extraction, Fluorescence and Radiolytic Degradation Studies;
Ajay B. Patil, Priyanath Pathak, **Vaishali S. Shinde***, Shrikant V. Godbole, Prasanta K. Mohapatra;
*Dalton Trans***; 2013**, *42 (5)*, 1519 - 1529.

12. Gnidia glauca flower extract mediated synthesis of gold nanopartcles and evalution of its chemocatalytic potential.
Ghosh S., Patil S., Ahire M., Kitture R., Gurav D. D., Jabgunde A. M., Kale S., Pardesi K., **Shinde V. S**., Bellare J., Dhavale D. D., Chopade B. A.
Journal of Nanobiotechnology **2012**, 10-17.

11. Thermoresponsive Polystyrene-*b*-Poly(*N*-isopropylacrylamide) Copolymers by Atom Transfer Radical Polymerization.
Vaishali S. Shinde*, Madhavi R. Girme and Vishwas U. Pawar,
Indian Journal of Chemistry A, **2011**, *50A(6)*, 781-787.

10. Chiron approach to the synthesis of (–)–Yashabushidiol B, (3*S*,5*S*)-1-(4'-hydroxyphenyl)-7-phenyl-3,5-heptanediol and its 4'-methoxy analogue.
Vishwas Pawar and **Vaishali Shinde***
Tetrahedron: Asymmetry, **2011**, *22*, 8-11.

9. Glycopolymer-Grafted Polystyrene Nanospheres.
Andre Pfaff; **Vaishali Shinde** ; Yan Lu,.; Alexander Wittemann, ; Matthias Ballauff, and Axel Müller.
Macromol. Biosci., **2011,** *11*, 199-210.

8. Intramolecular Reductive Cyclization Strategy to the Synthesis of□□□□□6-Methyl-3-hydroxy-piperidine-2-carboxylic acid, □□□-6-Methyl-(2-hydroxymethyl)-piperidine-3-ol and Their Glycosidase Inhibitory Activity.
Vishwas Pawar, Sanjay Chavan, Sushma Sabharwal and **Vaishali Shinde*.**
Bioorg. Med. Chem. **2010**, *18*, 7799-7803.

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