

**Dnyanopasak Shikshan Mandal's  
College of Arts, Commerce and Science, Parbhani - 431401**

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Name : **Dr. Bhusare Sudhakar Raghunathrao**  
Designation : **Assistant Professor**  
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**Personal Information**

Date of Birth : **10.08.1971**  
Qualification : **M. Sc., B. Ed., Ph. D., PDF (Israel)**  
Specialization : **Organic Chemistry**  
Teaching Experience : **UG 12 Years                      PG 22 Years**

**Research Information**

Research Experience : **20 Years**  
Research Guide : **Yes**  
No. of Ph.D. students working : **06**  
No. of Ph.D.'s completed : **08**  
No. of M. Phil. Guided : **04**  
No. of Publications : **94 (Please refer Annexure-I)**  
No. of Books / Chapters Published : **04 (Please refer Annexure-I)**

**Projects/Awards**

Major Research Projects with Titles and funding Agency:

Completed : **01**

Ongoing : **00**

<b>Title of the project and duration</b>	<b>Amount sanctioned</b>	<b>Funding Agency</b>
Arylboronic Acids: A Versatile Catalyst in Chemical Transformations: 2008-2011	18,28,000/-	DST, New Delhi

Minor Research Projects with Titles and Funding Agency:

Completed : 01

Ongoing : 00

Title of the project and duration	Amount sanctioned	Funding Agency
Synthesis and Microbial studies of new Pharmaceutical Intermediates by Non-conventional Methods: 2008-10	75,000/-	UGC

Conference/Seminar/symposium/Workshop:

Conferences conducted : 05 (Please refer Annexure-II)

Conferences attended : 41 (Please refer Annexure-II)

No. of Papers Presented : 01

List of refresher courses/ Professional courses/ Training Courses attended:

Refresher courses : 03

Orientation Courses : 01

Short Term Course : 01

### Membership of Professional bodies (List)

**Member:** International Union of Pure and Applied Chemistry (IUPAC).

**Life Member:** Association of Chemistry Teachers, India.

**Editorial Board Member:** International Journal of Chemical and Biomedical Science

#### Reviewer of the Journals

1. *International Journal of Medicinal Chemistry*
2. *Synthetic Communications*
3. *Arabian Journal of Chemistry*
4. *ChemCatChem*
5. *Molecular Diversity*
6. *Chinese Chemical Letters*
7. *Chiang Mai Journal of Science*
8. *Journal of the Chemical Society of Pakistan*
9. *AASCIT Chemistry*
10. *Bulgarian Chemical Communications*
11. *Research on Chemical Intermediates*
12. *Open Chemistry Journal*
13. *Journal of Heterocyclic Chemistry*

Signature of Teacher

## Annexure-I

### List of Books / Chapters

1. "Nanoparticles for Pharmaceutical Applications", R. P. Pawar, **S. R. Bhusare** and Y. B. Vibhute, **American Scientific Publishers, California, USA**, 320-333, **2007**.
2. "Natural-Based Polymers for Biomedical Applications", 'Polysaccharides as Carriers of Bioactive agents for Medical Applications', R. Pawar, W. Jadhav, **S. Bhusare**, R. Borade, S. Farber, D. Itzkowitz and A. Domb, **Woodhead Publishing Limited, Cambridge, England**, 3-45, **2008**.
3. **Arylboronic acids: An Versatile Catalyst in Synthetic Organic Chemistry**, **S. R. Bhusare**, S. V. Goswami, LAP Lambert Academic Publishing, Germany, 2015 (ISBN: 978-659-68357-2).
4. **Synthesis, Characterization and Applications of Organocatalysts**, S. R. Bhusare and P. B. Thorat, LAP Lambert Academic Publishing, Germany, 2015 (ISBN: 978-659-68287-2).

### List of Research Papers Published

#### 1999-2000

01. R. P. Pawar, N. M. Andurkar, **S. R. Bhusare** and Y. B. Vibhute, Synthesis and antibacterial activity of some new simple and heterocyclic Schiff bases, *Orient. J. Chem.*, 15 (1), 157-160, **1999**.
02. **W. N. Jadhav**, S. R. Bhusare and R. P. Pawar, Kinetic of bromination of substituted acetophenones by phenyltrimethylammonium-tribromide, *Oriental J. Chem.*, 16 (3), 545-548, **2000**.
03. D. V. Jarikote, P. S. Patil, W. N. Jadhav, **S. R. Bhusare**, N. M. Andurkar and R. P. Pawar, Synthesis and antimicrobial activity of some new anilinic acids, *Orient. J. Chem.*, 16 (1), 135-138, **2000**.

#### 2000-2001

04. S. V. More, S. A. Siddiqui, Asif Ali, R. F. Siddiqui, **S. R. Bhusare**, R. P. Pawar and Y. B. Vibhute, Synthesis of some new 2, 4-(substituted diaryl)-2, 3-dihydro, 8-Methoxy 1, 5-benzothiazepines as antibacterial agents, *Orient. J. Chem.*, 17 (2), 319-322, **2001**.
05. **S. R. Bhusare**, R. P. Pawar and Y. B. Vibhute, Synthesis and antibacterial activity of some new 2-(substituted phenyl sulfonamido)-6-substituted benzothiazoles, *Indian J. Heterocyclic Chem.*, 11, 79-80, **2001**.

#### 2001-2002

06. S. A. Siddiqui, **S. R. Bhusare**, D. V. Jarikote, R. P. Pawar and Y. B. Vibhute, New novel synthesis and antibacterial activity of 1-(substituted phenyl)-2-phenyl-4-(3'-halo, 4'-hydroxy, 5'-methoxy benzylidene)-imidazole-5-ones, *Bull. Korean Chem. Soc.*, 22 (9), 1033-1036, **2001**.
07. W. N. Jadhav, **S. R. Bhusare**, R. P. Pawar and B. R. Arbad, Kinetic of bromination of substituted acetophenones by phenyltrimethylammonium-tribromide, *J. Indian Chem. Soc.*, 78 (6), 310-312, **2001**.

08. P. S. Kendrekar, S. V. More, P. S. Patil, **S. R. Bhusare** and R. P. Pawar, Synthesis of 2-(2-hydroxy-3-iodo-5-bromo phenyl)-3-(substituted phenyl)-4-thiazolidinones, *Orient. J. Chem.*, 18 (2), 1771, **2002**.
09. **S. R. Bhusare**, S. S. Ardhapure, W. N. Jadhav, R. P. Pawar and Y. B. Vibhute, Synthesis and antimicrobial activity of some new Schiff bases, 4-thiazolidinones and 2-azetidionones, *Asian J. Chem.*, 14 (1), 209-212, **2002**.
10. S. V. More D. V. Dongarkhadekar, R. N. Chavan, W. N. Jadhav, **S. R. Bhusare** and R. P. Pawar, Synthesis and antibacterial activity of some new Schiff bases, 4-thiazolidinones and 2-azetidionones, *J. Indian Chem. Soc.*, 79, 768-769, **2002**.

### 2002-2003

11. V. G. Pawar, **S. R. Bhusare**, R. P. Pawar and B. M. Bhawal, Studies in large ring compounds: Synthesis of some new morphanthridines and diazocines, *Synth. Commun.*, 32 (13), 1929-1936, **2002**.
12. **S. R. Bhusare**, P. S. Patil, V. P. Chavan, R. P. Pawar, B. M. Bhawal and Y. B. Vibhute, Synthesis of 1-(substituted phenyl)-2-phenyl-4-(2'-hydroxy 3'-iodo-5'-choro benzylidene) -imidazole-5-ones, *Mendeleev Commun.*, 12 (3), 94-95, **2002**.
13. P. P. Karunakar, W. N. Jadhav, R. P. Pawar and **S. R. Bhusare**, Efficient synthesis of 4, 4'-diamino diphenyl methanes in a water suspension medium, *Intl. J. Chem. Sci.* 1 (3), 277-280, **2003**.
14. **S. R. Bhusare**, V. G. Pawar, S. B. Shinde R. P. Pawar and Y. B. Vibhute, Synthesis of some new heterocyclic Schiff bases, 4-thiazolidinones, 2-azetidionones as an antibacterial and antifungal agent, *Intl. J. Chem. Sci.*, 1 (1), 31-36, **2003**.
15. **S. R. Bhusare**, J. L. Shekapure, R. P. Pawar, Y. B. Vibhute and B. M. Bhawal. New synthesis of 1-aryl-4-(4-hydroxy-3,5-diiodo- $\alpha$ -methylbenzylidene)-2-phenylimidazol-5-ones, *Chem. Heterocyclic Compounds*, N6 (432), 853-856, **2003**.
16. P. S. Kendrekar, R. F. Siddiqui, P. S. Patil, **S. R. Bhusare** and R. P. Pawar, Synthesis and antibacterial activity of Schiff bases and 4-thiazolidinones, *Indian J. Pharm. Sci.*, 65 (3), 313-315, **2003**.

### 2003-2004

17. **S. R. Bhusare**, D. V. Jarikote, R. R. Deshmukh, W. N. Jadhav, R. P. Pawar and Y. B. Vibhute, A facile synthesis of 1, 3, 4, 6-tetrahydro-1, 6-benzodiazocine-2, 5-diones, *Bull. Korean Chem. Soc.* 24 (9), 1377-1378, **2003**.
18. S. B. Patwari, M. A. Baseer, Y. B. Vibhute and **S. R. Bhusare**, Pyridinium bromochromate: a new and efficient reagent for bromination of hydroxy aromatics, *Tetrahedron. Lett*, 44 (26), 4893-4894, **2003**.
19. **S. R. Bhusare**, A. B. Shinde, R. P. Pawar and Y. B. Vibhute, Synthesis and antimicrobial activity of heterocyclic Schiff bases, 4-thiazolidinones and 2-azetidionones, *Indian J. Pharm. Sci.*, 2, 228-231, **2004**.
20. E. Farkas, Y. Katz, **S. Bhusare**, R. Reich, G. V. Roschenthaler, M. Konigsmann and E. Breuer, Carbamoylphosphonate based matrix metalloproteinase (MMP) inhibitor metal complexes-solution studies and stability constants. Towards a zinc selective binding group, *J. Biol. Inorg. Chem.*, 9 (3), 307-315, **2004**.

21. D. V. Jarikote, V. G. Pawar, **S. R. Bhusare**, R. V. Hangarge, Y. B. Vibhute and R. P. Pawar, A facile synthesis of 1,3,4,6-tetrahydro-1,6-benzodiazocine-2,5-diones, *Russ. J. Org. Chem.*, 40(4), 575-577, **2004**.
22. S. B. Shinde, W. N. Jadhav, R. P. Pawar and **S. R. Bhusare**, Synthesis and antibacterial activity of some 3,5-diphenyl and 1,3,5-triaryl-2-pyrazolines, *J. Chin. Chem. Soc.*, 51 (4), 775-778, **2004**.

#### 2004-2005

23. S. S. Mokle, M. A. Sayyed, R. P. Pawar, **S. R. Bhusare** and Y. B. Vibhute, Synthesis and antibacterial activity of new pyrazoline and benzothiazepine derivatives, *Chemistry: an Indian Journal*, 2 (9), **2005**.
24. A. V. Joshi, **S. R. Bhusare**, M. Baidossi, N. Qafisheh and Y. Sasson, Oxidative coupling of thiols to disulfides using a solid anhydrous potassium phosphate catalyst, *Tetrahedron Lett.*, 46, 3583-3585, **2005**.
25. B. R. Patil, **S. R. Bhusare**, R. P. Pawar and Y. B. Vibhute, Iodine and iodic acid: an efficient reagent combination for iodination of aryl hydroxy ketones, *Tetrahedron Lett.*, 46, 7179-7181, **2005**.
26. R. S. Bhosale, S. R. Sarda, S. S. Ardhapure, W. N. Jadhav, **S. R. Bhusare** and R. P. Pawar, An efficient protocol for the synthesis of quinoxaline derivatives at room temperature using iodine as the catalyst, *Tetrahedron Lett.*, 46, 7183-7186, **2005**.
27. S. V. More, S. S. Ardhapure, N. H. Naik, **S. R. Bhusare**, W. N. Jadhav and R. P. Pawar, Room temperature ionic liquid promoted Williamson's synthesis of ethers: a facile synthesis of diaryloxymethanes, *Synth. Commun.*, 34, 3113-3118, **2005**.

#### 2005-2006

28. B. R. Patil, **S. R. Bhusare**, R. P. Pawar and Y. B. Vibhute, Regioselective iodination of hydroxylated aromatic ketones, *Arkivoc*, 1 (i), 104-108, **2006**.
29. M. Sayyed, S. Mokle, M. Bokhare, A. Mankar, S. Surwase, **S. R. Bhusare** and Y. B. Vibhute, Synthesis of some new 2, 3-diaryl-1, 3-thiazolidin-4-ones as antibacterial agents, *Arkivoc*, 1 (ii), 187-192, **2006**.

#### 2006-2007

30. L. Huberman, N. Gollop, K. Y. Mumcuoglu, E. Breuer, **S. R. Bhusare**, Y. Shai and R. Galun, Antibacterial substances of low molecular weight isolated from the blowfly, *Lucilia Sericata*, *Medical and Veterinary Entomology*, 21, 127-131, **2007**.

#### 2007-2008

31. Amnon Hoffman, Bashir Qadri, Julia Frant, Yiffat Katz, S. R. Bhusare, Eli Breuer, Rivka Hadar, and Reuven Reich, Carbamoylphosphonate Matrix Metalloproteinase Inhibitors 6: cis-2-Aminocyclohexyl-carbamoylphosphonic Acid, A Novel Orally Active Antimetastatic Matrix Metalloproteinase-2 Selective Inhibitors, Synthesis and Pharmacodynamic and Pharmacokinetic Analysis, *J. Med. Chem.*, 51(5), 1406-1414, **2008**.
32. S. A. Dake, S. U. Tekale, S. R. Sarda, W. N. Jadhav, **S. R. Bhusare** and R. P. Pawar, Anhydrous Zinc Chloride: An efficient catalyst for one pot synthesis of 2,3,4,12-tetrahydrobenzo-[4,5]-thiazolo-[2,3b]-quinazolin-1-ones, *Arkivoc*, 17, 241-247, **2008**.

### 2008-2009

33. S. R. Sarda, W. N. Jadhav, **S. R. Bhusare**, S. K. Wasmatkar, S. A. Dake, R. P. Pawar, Solvent-free NaOH-Al<sub>2</sub>O<sub>3</sub> supported synthesis of 1,3-diaryl-2-propene-1-ones, *Int. J. ChemTech. Res.*, 1 (2), 265-269, **2009**.
34. S. S. Kottawar, S. A. Siddiqui, V. P. Chavan, W. N. Jadhav and S. R. Bhusare, Scandium (III) triflate catalyzed efficient synthesis of substituted 1-pyridylimidazo-[1,5-a]-pyridines, *Synth. Commun*, 39, 3546-3549, **2009**.

### 2009-2010

35. H. R. Sonawane, S. P. Patil, S. V. Goswami, V. L. Deshmukh and **S. R. Bhusare**, L-Proline catalyzed three component one-pot efficient synthesis of 2,3-diaryl-1,3-thiazolidin-4-ones, *Organic Chemistry: An Indian Journal*, 6(1), **2010**.
36. S. S. Idhole, V. B. Dhotre, S. V. Goswami, S. P. Hangirgekar and **S. R. Bhusare**, L-Proline: An Efficient Catalyst for the Synthesis of Coumarins via Pechmann Reaction, *Int. J. Chem. Sci.*, 8(1), 553-558, **2010**.
37. B. C. Khade, P. M. Deore, S. R. Bhusare and B. R. Arbad, Investigation and Speciation of Ternary Complexes of Copper Metal on With Pharmaceutical Ligand Salbutamol and Aminoacids, *International Journal of Pharmaceutical Sciences Review and Research*, 4(2), 3-8, **2010**.
38. S. S. Kottawar, S. A. Siddiqui and **S. R. Bhusare**, A novel one-pot synthesis of 1,2-dihydro-1-phenyl-naphtho [1,2-e] [1,3] oxazin-3-ones, *Rasayan J. Chem.*, 3(4), 646-648, **2010**.

### 2010-2011

39. B. V. Kendre, M. G. Landge, Suleman R. Maujan and **S. R. Bhusare**, Synthesis and Pharmacological Evaluation of Novel Aldimines containing Aryl Sulfonate moiety, *Chemistry & Biology Interface*, 1(1), 116-122, **2011**.
40. S. V. Goswami, P. B. Thorat, S. S. Dhone and S. R. Bhusare, Phenylboronic acid-Catalyzed Synthesis of 9,9-Dimethyl-12-phenyl-9,10-dihydro-8H-benzo[a] xanthen-11(12H)-one Derivatives, *J. Chem. Pharm. Res.*, 3(5), 632-635, **2011**.
41. S. V. Goswami, P. B. Thorat and **S. R. Bhusare**, Phenylboronic acid catalyzed synthesis of 2- aryl substituted benzimidazoles at ambient temperature, *J. Chem. Bio. Phy. Sci.*, 1(2), 164-168, **2011**.
42. P. B. Thorat, P. S. Nilwarn, S. V. Goswami and S. R. Bhusare, L-Proline as an Efficient Organocatalyst for Synthesis of Pyridine Derivatives, *Der Pharma Chemica*, 213-217, 3(5), **2011**.
43. S. S. Kottawar, S. V. Goswami, P. B. Thorat and S. R. Bhusare, L-Proline as an Efficient Catalyst for Synthesis of Aldimines at Ambient Temperature Condition, *E-Journal of Chemistry*, 8(4), 1859-1863, **2011**.

### 2011-2012

44. V. P. Sondankar, V. B. Deshmukh, K. R. Rathod, and **S. R. Bhusare** Manganese Acetate: as an Efficient Environmentally Benign Catalyst for Acetylation of Phenols, *J. Chem., Bio. Phy. Sci.*, 2(1), 97-100, **2012**.
45. K. George Abraham, M. V. Lokhande and **S. R. Bhusare**, Synthesis and Characterization of Mn(II), Co(II), Ni(II), Cu(II) and Zn(II) complexes with 4-{(E)-[(2-chlorophenyl)imino]methyl}benzene-1,2-diamine, *J. Chem. Bio. Phy. Sci.*, 2(1), 137-144, **2012**.

46. R. N. Adude, R. M. Tigote and **S. R. Bhusare**, 3-Nitrophenylboronic acid- catalyzed synthesis of  $\alpha$ -enaminones under solvent-free conditions, *Der Chemica Sinica.*, 3(1), 231-235, **2012**.
47. K. George Abraham, M. V. Lokhande and **S. R. Bhusare**, Some Transition Metal Ion Complexes with 4- $\{(E)\text{-}[(2\text{-chlorophenyl) imino] methyl\}$  benzene-1,2-diamine, *J. Chem. Pharm. Res.*, 4(1), 192-196, **2012**.
48. P. B. Thorat, S. V. Goswami and **S. R. Bhusare**, A facile organocatalysis protocol for one-pot synthesis of 3,4-dihydropyrimidin-2-(1*H*)-one derivatives, *Int. J. ChemTech Res.*, 4(2), 493-496, **2012**.

### 2012-13

49. R. N. Adude, R. M. Tigote, S. V. Goswami and **S. R. Bhusare**, 3-Nitro-benzeneboronic acid catalyzed efficient one-pot synthesis of 1, 4-dihydropyridines and polyhydroquinolines, *Int. J. Ind. Chem.*, 3, 6, **2012**.
50. S. V. Goswami, P. B. Thorat, B. C. Khade and **S. R. Bhusare**, A Convenient one-pot synthesis of 2-amino-4-phenyl-1,8-naphthyridine-3-carbonitrile derivatives, *Chemistry & Biology Interface*, 2(4), 228-233, **2012**.
51. B. V. Kendre, M. G. Landge and **S. R. Bhusare**, Microwave Assisted and  $\text{Al}_2\text{O}_3 / \text{K}_2\text{CO}_3$  Catalyzed Synthesis of Azetidines Derivatives Containing Aryl Sulfonate Moiety with Anti-inflammatory and Anti-microbial Activity, *Open J. Med. Chem.*, 2, 98-104, **2012**.
52. P. B. Thorat, S. V. Goswami, B. C. Khade and **S. R. Bhusare**, Organocatalyzed Baylis-Hillman Reaction: An Enantioselective Approach, *Tetrahedron Asymmetry*, 23, 1320-1325, **2012**.
53. P. B. Thorat, S. V. Goswami, B. C. Khade and S. R. Bhusare, Synthesis and Application of Proline Based Organocatalyst for Highly Enantioselective Aldol condensation by Hydrogen bonding, *Tetrahedron Lett.* 53, 6083-6086, **2012**.
54. S. V. Goswami, P. B. Thorat, and S. R. Bhusare, A Facile One-pot Synthesis of Dicycloalkenopyridines at Ambient Temperature Conditions, *Tetrahedron Lett.* 53(50), 6771-6774, **2012**.
55. B. V. Kendre, M. G. Landge and S. R. Bhusare, Synthesis of Some Pyrazole, Isoxazole, Benzoxazepine and Benzothiazepine Derivatives as Anti-inflammatory and Antimicrobial Agents, *Am. J. PharmTech. Res.*, 2(6), 490-500, **2012**.
56. S. V. Goswami, P. B. Thorat and **S. R. Bhusare**, An Efficient One-pot Multicomponent Synthesis of Highly Functionalized Piperidines, *Heterocyclic Commun.*, 18(5-6), 245-248, **2012**.
57. S. S. Kottawar, S. A. Siddiqui and **S. R. Bhusare**, Scandium triflate-catalyzed one-pot multicomponent synthesis of 2-amino-3,5-dicarbonitrile-6-thio-pyridines, *Heterocyclic Commun.*, 18(5-6), 249-252, **2012**.
58. R. N. Adude, S. V. Goswami, B. Y. Pagare and **S. R. Bhusare**, Solid-supported fluoroboric acid: an efficient reagent combination for S-alkylation of thiols, *Chem. Sci. Trans.*, 2(1), 282-286, **2013**.
59. S. S. Kottawar, S. V. Goswami, W. N. Jadhav and **S. R. Bhusare**, Synthesis and Antimicrobial Evaluation of Some Heterocyclic Sulfonamide Derivatives, *Heterocyclic Lett.*, 3(1), 31-36, **2013**.

## 2013-2014

60. S. V. Goswami, P. B. Thorat, A. V. Chakrawar and **S. R. Bhusare**, A Mild and Efficient One Pot Synthesis of  $\beta$ -Amino Carbonyl Compounds *via* Mannich Reaction under Ambient Temperature Condition, *Molecular Diversity*, 17, 33-40, **2013**.
61. B. V. Kendre, M. G. Landge, W. N. Jadhav and **S. R. Bhusare**, Synthesis and anti-inflammatory activity of novel 6-(1-phenyl-1*H*-pyrazol-5-yl)-phenyl-4-methylbenzene sulfonate derivatives, *Chin. Chem. Lett.*, 24, 325-328, **2013**.
62. S. V. Goswami, P. B. Thorat, V. N. Kadam, S. A. Khiste and **S. R. Bhusare**, A convenient one-pot three component synthesis of 3-aminoalkylated indoles catalyzed by 3-chlorophenylboronic acid, *Chin. Chem. Lett.*, 24, 422-424, **2013**.
63. P. B. Thorat, S. V. Goswami, W. N. Jadhav and S. R. Bhusare, Water Assisted Organocatalysis: An Enantioselective green protocol for Henry Reaction, *Aust. J. Chem.* 66(6), 661-666, **2013**.
64. S. V. Goswami, P. B. Thorat and S. R. Bhusare, Phenylboronic Acid Catalyzed Synthesis of 1,5-Benzodiazepines *via* Cyclocondensation of *o*-Phenylenediamine and Ketones, *J. Chem. Sci.*, 125(4), 745-749, **2013**.
65. P. B. Thorat, S. V. Goswami, R. L. Magar, B. R. Patil and S. R. Bhusare, An Efficient Organocatalysis: A One Pot Synthesis of Highly Enantioselective  $\alpha$ -Aminophosphonates, *Eur. J. Org. Chem.*, 5509-5516, 24, **2013**.
66. S. V. Goswami, S. S. Wagh, S. S. Pendalwar, and S. R. Bhusare, A Facile and Convenient Approach for the One-Pot Synthesis of Naphtho-1,3-oxazine Derivatives, *Current Catalysis*, 2(3), 244-248, **2013**.
67. P. B. Thorat, S. V. Goswami, R. L. Magar and S. R. Bhusare, Organocatalysis for the Synthesis of Optically Active  $\beta$ -Malanophosphonates, *J. Chem. Sci.*, 125(5), 1109-1114, **2013**.
68. P. B. Thorat, S. V. Goswami and **S. R. Bhusare**, An Efficient Route for Allylation of Arylaldehydes to give Enantiopure Homoallylic Alcohols, *Tetrahedron: Asymmetry*, 24, 1324-1330, **2013**.

## 2014-2015

69. P. B. Thorat, S. V. Goswami, R. L. Magar, S. S. Pendalwar and **S. R. Bhusare**, Organocatalyzed one-pot three component synthesis of 3,4,5,6-tetrahydro-4,5-bis(phenyl)pyrimido[4,5-*d*]pyrimidine-2,7(1*H*,8*H*)-dione/thione, *Chemistry & Biology Interface*, 4(3), 200-205, **2014**.
70. S. S. Kottawar, S. A. Siddiqui, S. S. Pendalwar, W. N. Jadhav and **S. R. Bhusare**, Molecular iodine catalyzed coupling reaction of indole with 1, 3-dicarbonyl compounds, *Res. Chem. Intermed.*, 40(8), 2929-2934, **2014**.
71. B. V. Kendre, M. G. Landge and **S. R. Bhusare**, Synthesis, structure activity relationships and biological evaluation of some novel thiazolidin-4-ones as antimicrobial and anti-inflammatory drugs, *Indo American Journal of Pharm Research*, 1420-1427, 4(2), **2014**.
72. V. P. Sondankar, N. R. Rathod and **S. R. Bhusare**, Zinc acetate catalyzed an efficient synthesis of 2,4,5-triphenyl-1*H*-imidazole derivatives under solvent-free condition, *Heterocyclic Lett.*, 5(1), 131-135, **2015**.



73. S. V. Goswami, P. B. Thorat, M. V. Shukla, and S. R. Bhusare, 3-Chlorophenylboronic acid Promoted One-pot Aza-Friedel Craft Reaction of Indoles, *Res. Chem. Intermed.*, 41, 2583-2589, **2015**.
74. S. C. Jadhvar, H. M. Kasraliker and S. R. Bhusare, Synthesis and Evaluation of Anticancer Activity of Some New 3-Aminoalkylated Indole Derivatives, *Am. J. PharmTech. Res.*, 5(2), 477-487, **2015**.
75. S. V. Goswami, Nilam B. Suryawanshi, A. V. Chakrawar and S. R. Bhusare, An Efficient Synthesis of  $\alpha$ -Hydroxy Phosphonates Catalyzed by Phenylboronic Acid, *Chemistry & Biology Interface*, 5(1), 29-33, **2015**.
76. S. S. Kottawar, T. M. Potewar, S. V. Goswami and **S. R. Bhusare**, Remarkably Fast and Mild Conversion of Phenacyl Bromide into 2-Aminothiazole Catalyzed by Molecular Iodine at Ambient Temperature Conditions, *Heterocyclic Letters.*, 5(2), 279-283, **2015**.
77. S. C. Jadhvar, H. M. Kasraliker, S. V. Goswami and S. R. Bhusare, A Convenient One-pot Multi-component Synthesis of Dihydropyrimido[4,5-b] quinolinetriones and Evaluation of Their Anticancer Activity, *World Journal of Pharmacy and Pharmaceutical Sciences*, 4(5), 1106-1116, **2015**.
78. B. C. Khade, **S. R. Bhusare** and W. N. Jadhav, Anti malarial drug sulphadoxine: a computational Studies on the formation constant with copper (ii) and some amino acids, *World Journal of Pharmacy and Pharmaceutical Sciences*, 4(5), 1385-1396, **2015**.
79. S. S. Sarwade, W.N. Jadhav, B.C. Khade and **S.R. Bhusare**, Synthesis and evaluation of Zn (II) Imiquimod complex, *Der Chemica Sinica*, 6(2), 1-4, **2015**.
80. S. S. Sarwade, W.N. Jadhav, B.C. Khade and **S.R. Bhusare**, Synthesis and characterization of Ag (I) complex with Candesartan, *Der Chemica Sinica*, 6(4), 18-22, **2015**.

### 2015-16

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93. S. S. Pendalwar, A. V. Chakrawar, and S. R. Bhusare, Novel Proline Based Organocatalysts for Michael Addition of 1,3-Dicarbonyls to Nitrostyrene, *J. Chem. Pharm. Res.*, 8 (7), 19-21, **2016**.
94. B. V. Kendre, M. G. Landge and **S. R. Bhusare**, Synthesis and biological evaluation of some novel pyrazole, isoxazole, benzoxazepine, benzothiazepine and benzodiazepine derivatives bearing an aryl sulfonate moiety as antimicrobial and anti-inflammatory agents, *Arabian J. Chem.*, (Published online) **2015**.

## Annexure-II

### Conferences/ Seminars/ Workshops Conducted:

- 01) **Convener:** State Level Seminar on *New Emerging Trends in Chemistry*, held at Shri Shivaji College, Parbhani on dated 18-19.03.2006.
- 02) **Member:** Workshop on Scope of *Syllabus in Chemistry at UG & PG level* held at Dnyanopasak College, Parbhani on dated 18.11.2008.
- 03) **Member:** International Conference on *Drug Discovery & Nanotechnology* held at Yeshwant College, Nanded on dated 27-29.01.2008
- 04) **Organizing Secretary:** Workshop on *Chemistry: Our Life Our Future* held at Dnyanopasak College, Parbhani on dated 03-04.03.2012.
- 05) Co-ordinator: National Conference on “Newest Developments in Chemical Sciences for Civilized society (NDCSCS-2016)”, held at Dnyanopasak College, Parbhani on dated 09-10.12.2016.

### Symposia, Conferences, Workshops and Seminars attended

- 01) 15<sup>th</sup> National conference of Indian Council of Chemist held at Dr. B. A. M. University, Aurangabad on 24-26 October 1996.
- 02) Workshop on Syllabus and Scope in M. Sc. Chemistry held at Science College, Nanded on 20 November 1997.
- 03) Workshop on Scope of Syllabus of B. Sc. Chemistry Second Year held at Yeshwant College on 10 October 1998.
- 04) National Conference of Industry Education-Initiatives in Chemistry held at Dr. B. A. M. University, Aurangabad on 6-8 February 1998.
- 05) National Seminar on Drugs Scenario of 21<sup>st</sup> Century: Emerging Trends of Chemistry, Biology and Medicine, held at Swami Ramanand Teerth Marathwada University, Nanded on 21-22 December 1999.
- 06) Workshop on Scope of Syllabus in Chemistry at B. Sc. Third Year Level held at Yeshwant College, Nanded on 17<sup>th</sup> July 1999.
- 07) Regional Seminar on Modern trends in Spectroscopy and Stereochemistry, held at Yeshwant College, Nanded on 30-31 March 2000.
- 08) 4<sup>th</sup> National Symposium on Chemistry held at National Chemical Laboratory on 1-3 February 2002.
- 09) National Conference on Recent Trends in Synthetic Organic Chemistry held at School of Chemical Sciences, North Maharashtra University, Jalgaon on 16-17 December 2005.
- 10) NAAC sponsored State Level Seminar on Post Accreditation Quality Sustenance Awareness Activities in Higher Education, held at Balbhim College, Beed on 13-14 March 2005.
- 11) Joint International Conference on Building Bridges Forging Bonds for 21<sup>st</sup> Century Organic Chemistry and Chemical Biology Conducted by American Chemical Society and National Chemical Laboratory, Pune held at National Chemical Laboratory, Pune on 6-9 January 2006.

- 12) National Conference on Drug Designing and synthesis held at Dr. Ambedkar College, Nagpur on 19-20, January 2007.
- 13) Workshop on Scope of Syllabus in Chemistry at UG & PG Level held at Dnyanopasak College, Parbhani on 18<sup>th</sup> November 2008.
- 14) International conference on Drug Discovery & Nanotechnology held at Yeshwant College, Nanded on 27-29 January 2008.
- 15) Discussion Meeting on Chemical Reactions in Unusual Media held at National Chemical Laboratory, Pune from 08.10.2009 to 09.10.2009.
- 16) Workshop on scope of new syllabus of UG and PG Chemistry and allied subjects held at N. E. S. Science College, Nanded on 26.09.2009.
- 17) 11<sup>th</sup> CRSI National symposium in Chemistry held at National Chemical Laboratory, Pune on 6-8 February 2009.
- 18) Workshop on scope of syllabus in Chemistry for B. Sc. S. Y. and T. Y. held at Bahirji Mahavidyalaya, Basmatnagar, Dist. Parbhani on 18.09.2010.
- 19) 14th ISCB International Conference on Chemical Biology for Discovery: Perspectives and Challenges held at Central Drug Research Institute, Lucknow from 15.01.2010 to 18.01.2010.
- 20) National Conference on Recent Trends in Chemical Research-2010 held at GSG College, Umerkhed from 12-13.03.2010.
- 21) *15th ISCB International Conference Bridging Gaps in Discovery and Development: Chemical and Biological Sciences for Affordable Health, Wellness and Sustainability* held at Saurashtra University, Rajkot from 04.02.2011 to 07.02.2011.
- 22) *National Conference on Advanced Tools in Chemical Analysis* held at Deogiri College, Aurangabad from 26.08.2011 to 27.08.2011.
- 23) *National Seminar on Eco-friendly Synthesis of Organic Compounds*, held at Dayanand Science College, Latur from 04-05.11.2011.
- 24) National Symposium on Chemistry Innovations for Human Well being held at Himachal Pradesh University, Shimla from 21-22.10.2011.

### **2012-2013**

- 25) National conference on Current Trends in Chemical Research held at Vasant Rao Naik College, Aurangabad from 30-31.08.2012.
- 26) Indo-Japan Conference on Catalysis: A Green Chemistry Approach held at Institute of Chemical Technology, Mumbai on 13.02.2013.
- 27) International Conference on Emerging Trends in Chemical Sciences held at Central University of Gujarat, Gandhinagar from 14-15.03.2013.
- 28) National Seminar on Research Aptitude in Sciences: A Thought held at N. S. B. College, Nanded on 31.03.2013.

### **2013-2014**

- 29) Workshop on 'Patents: Rules and regulations' held at S. R. T. M. University, Nanded on 18.07.2013.
- 30) National Conference on "Upcoming Trends in Chemical Science" held at Shri Anand College of Science, Pathardi, Ahmadnagar from 06-07.09.2013.

- 31) Workshop on Revised Curriculum and its scope: Chemistry and allied Subjects held at N. E. S. Science College, Nanded on 08.10.2013.
- 32) National Conference on “Frontiers of Chemical Research” Held at Jawaharlal Neharu Technical University, Hyderabad from 25-26.10.2013.
- 33) National conference on “Recent Trends in Chemistry Education” held at Sir Sayyed College, Aurangabad from 13-14.12.2013.
- 34) International conference on Global Opportunities for latest developments in chemistry and technology-2014 held at North Maharashtra University, Jalgaon from 06-08.02.2014.

#### **2014-15**

- 35) National conference on “Current Innovations in Chemical Research” held at K. J. Somaiya College of Arts, Commerce & Science, Kopergaon from 22-23.12.2014.
- 36) National conference on “New Research Trends in Chemistry & Its Applications in Environmental Science” at SPSJ Science College, Chandvad-423101, Nashik from 30-31.12.2014.

#### **2015-16**

- 37) Workshop on ‘Scope of Revised (CBCS) Curriculum of M. Sc. (I & II) Chemistry and allied Subjects’ held at LBS College, Dharmabad on dated 09.09.2015.
- 38) International Conference on ‘New Horizons in Synthetic and Material Chemistry’ held at University of Mumbai on dated 26-28 November 2015.
- 39) National conference on ‘Recent trends and advances in chemical sciences’ held at B. Raghunath College, Parbhani on dated 12-13.01.2016.
- 40) National conference on ‘*Recent trends and advances in chemical sciences*’ held at Sant Gadage Baba Amravati University, Amravati on dated 29-30.01.2016.

#### **2016-17**

- 41) National Symposium on Recent Advances in Chemical & Material Sciences, held at Rajiv Gandhi University of Knowledge and Technology, Basar, AP on dated 20-21.08.2016.