

DR. PINAKI S. BHADURY

Nationality: IND/CAN (Perm. Res.) Phone: 289-990-8615 Email: bhadurypinaki@gmail.com

HIGHLIGHTS OF QUALIFICATIONS

- Extensive research skills in Synthetic Organic Chemistry/Characterization & Analysis/Food Chemistry & Analysis/Organic Synthesis/Pesticide Chemistry/Rational Drug Design/Medicinal Chemistry/Pharmaceutical Chemistry/Asymmetric Synthesis/Reaction Mechanism/Environmental Chemistry/Green Chemistry/Development of Greenhouse Gas Substitutes.
- 15+ years of industry experience and 10+ years of teaching experience both at Undergraduate and Graduate levels.
- Published more than 100 papers in peer-reviewed high impact factor journals (mostly as First/Corresponding Author).
- Bentham Ambassador at Bentham Science Publishers and guest edited "Current Organic Chemistry" (Bentham Science Publishers, Edited Several Issues).
- Editorial board member of Chinese Journal of Biology.
- Co-authored the book (and associated chapters) "Environment-Friendly Antiviral Agents for Plants" Springer-Verlag Berlin Heidelberg 2010.
- Awarded "Friendship Award, 2009" - The biggest national award for Foreign Experts, Conferred by Govt. of China. Link: http://en.chinagate.cn/top_news/2009-09/30/content_18631688.htm
- Passed MCAT General Chemistry Test (Teacher's Exam, Score 88%).

EDUCATION

- Post-Doc Organofluorine Chemistry, under the supervision of Prof. David M. Lemal, Dept. of Chemistry, Dartmouth College, Hanover, USA.
- Ph.D. Organic Chemistry, Thesis Title: Synthetic Studies on Organofluorine Compounds, Jiwaji University, Gwalior, Research Studies at Defence Research & Development Organization, Ministry of Defence, Govt. of India.
- Master of Science Chemistry, Specialization in Organic Chemistry, Indian Institute of Technology, Kharagpur, India.
- Master of Technology Metallurgical Engineering, Indian Institute of Technology, Kanpur, India.
- Bachelor of Science Chemistry, St. Xavier's College, Ranchi, India.

PROFESSIONAL EXPERIENCE

Bentham Ambassador at <i>Bentham Science Publishers</i>	2016 - till date
Research Scientist and Research & Development Manager at <i>NorthernChem Inc., Niagara Falls, ON, Canada</i>	2014 – 2015
Full Professor & Foreign Expert (Organic Chemistry) at <i>Shanghai University of Engineering Science, Dept. of Chemistry, Shanghai</i>	2013
Full Professor & Foreign Expert (Organic Chemistry) at <i>Ministry of Education, Guizhou University, Guiyang, Guizhou, P.R. China</i>	2006 – 2012
Research Associate (Organofluorine Chemistry) at <i>Dept. of Chemistry, Dartmouth College, Hanover, NH, USA</i>	2004 – 2005
Government Scientist Grade A (Gazetted Officer) <i>Govt. of India, Defence Research & Development Organization, Ministry of Defence, India</i>	1991 – 2004

ACADEMIC EXPERIENCE

- Published more than 100 papers in high impact factor international journals with more than 1750 citations.
- Guest edited "Current Organic Chemistry" multiple times (vol 16, 19, 20) and reviewed more than 200 manuscripts submitted to peer reviewed international journals.
- Taught various graduate (both Masters' and Ph.D.) level courses such as: Advanced Organic Chemistry, Professional Chemistry, Food Chemistry and Analysis, Pesticide Chemistry and Organic Spectroscopy.
- Taught undergraduate courses such as Organic Chemistry and Medicinal Chemistry.
- Supervised several post-graduate students; supervised 9 Master students' dissertations.
- Led several national projects including Environment-Friendly Asymmetric Synthesis of Bioactive Compounds.
- As a Foreign Expert, exchanged views in different fields e.g. Renewable Energy Resources, Food Safety, Analysis and Pesticide Chemistry.

RESEARCH INTERESTS

- Synthetic Organic Chemistry, Medicinal Chemistry, Food Chemistry & Analysis, Pesticide Chemistry, Synthesis and Reaction Mechanism, Characterization & Analysis, Enantioselective Organocatalytic Synthesis of Bioactive Compounds from Achiral Molecules, Newer Synthetic Methodologies to Novel Anti-Cancer or Generic Drugs, Asymmetric Synthesis, Organofluorine Chemistry, Bioorganic Chemistry, Green Chemistry, Greenhouse Gas Substitutes.

Published Book

- Environment-Friendly Antiviral Agents for Plants. Song, B., Yang, S., Jin, L., Bhadury, P.S. (SPRINGER); Chemical Industry Press, Beijing and Springer-Verlag Berlin Heidelberg 2010.

List of Major Publications

Major Reviews published are in blue.

Editorial Roles are in red.

2016

- Editorial: (Hot Topic: Multi-Catalysis For Efficient Biomass Conversions And Organic Transformations) Guest Editor(s): Pinaki S. Bhadury, Hu Li, Song Yang. Current Organic Chemistry: 2016, vol 20, no 7. Pp 735-828. Link: <http://benthamscience.com/journals/current-organic-chemistry/volume/20/issue/7/page/735/>

2015

- P.S. Bhadury* and Jun Pang (2015). Anti-Cancer Drug Design using Natural and Synthetic Pharmacophores. Curr. Org. Chem. 2015, vol. 19, no 15, 1460-1490, 31 pages, DOI:10.2174/1385272819666150525234749. (Review paper as the first and corresponding author).
- Editorial: Pinaki S. Bhadury (Guest Editor) (Hot Topic-Thematic Issue: Recent Developments in the Chemistry of Anti-Cancer Drug Research: Current Organic Chemistry: 2015, vol 19, no 10. Pp 870-968. Link: <http://benthamscience.com/journal/contents.php?journalID=coc&issueID=131697>
- Editorial: Bhadury PS (2015) Recent Developments in Gene Chemistry, Gene Technology;4:e111.doi:10.4172/2329-6682.1000e111. Link: <http://omicsgroup.org/journals/recent-developments-in-gene-chemistry-2329-6682-1000e111.php?aid=32796>
- Li, Y.; Lu, P.; Hu, D.; Bhadury, P.S.; Yuping, Z and Zhang, K. Determination of Dufulin residues in vegetables, rice and tobacco using liquid chromatography with tandem mass spectrometry. The Journal of AOAC International, 98(6):1739-1744, December 2015.

2014

- P.S. Bhadury* and Jun Pang (2014). Chiral Brønsted acid catalysed Friedel-Crafts reaction of indoles. Curr. Org. Chem. 2014, vol. 18, issue no. 16, 2108-3124 (17 pages, Review paper as the first and corresponding author).
- Bhadury, PS* and Sun, Z. (2014) Chiral Brønsted acid catalyzed transformations of electrophilic imines. Curr. Org. Chem. 2014, vol. 18, issue no 1, 127-150 (24 pages, Review paper as the first and corresponding author).
- Hu Li, Q. Zhang, P.S. Bhadury* and S. Yang (2014). Furan-type compounds from carbohydrates in Heterogeneous Catalysis. Curr. Org. Chem. vol. 18, issue no 5, 547-597 (51 pages, Review paper as the corresponding author).
- Hu Li.; Bhadury, PS*.; Riisager, A.; Yang, S (2014): One pot transformations of polysaccharides via multi-catalytic processes. Catalysis Science & Technology, Royal Society of Chemistry 2014, vol. 4, 4138-4168 (Invited review as the corresponding author, PERSPECTIVE, 31 pages)
- Y. Wang, Le Wang, L.Y. Chen, P.S. Bhadury, Z. Sun (2014). Transition metal-free synthesis of pinacolarylboronate: regioselective boronation of 1,3-disubstituted benzenes. Australian Journal of Chemistry, 67 (4), 675-678.
- Yuan, Y, Xue Wei, P.S. Bhadury* (2014) Catalysis Survey from Asia; 10.1007/s10563-013-9161-8. Organocatalytic application of enamine intermediate and hydrogen bonding interaction to dissymmetric transformation. (Review paper as the corresponding author)
- Manping Zhao, Xiuli Zhang, Chengxiang He, Pinaki S. Bhadury, and Zhihua Sun (2014) A Facile Synthesis of Tris(indolyl)propanes by Concerted 1,2- and 1,4-Friedel-Crafts Attack of Indoles to α,β -Unsaturated Aldimines. Australian Journal of Chemistry; 68 (2), 327-334.

2013

- Kun Wen, Jinbo Chen, Feng Gao, Pinaki S. Bhadury, Erkang Fan and Zhihua Sun (2013). Metal free catalytic hydroboration of multiple bonds of methanol using N-heterocyclic carbene under open atmosphere. Org. Biomol. Chem., 11 (issue 37), 6350-6356.

- Le Wang, Yan Wang, FangxuGuo, Yue Zheng, Pinaki S. Bhadury, Zhihua Sun (2013). Regioselective formylation of 1,3-disubstituted benzenes through in situ lithiation. *Tetrahedron Letts.*, 54, 6053-6056.

2012

- **Editorial: Pinaki S. Bhadury (Guest Editor) (Hot Topic: Synthesis and Application of Chiral Catalysts in Asymmetric Transformations. *Current Organic Chemistry*: 2012, vol 16, no 15. Pp 1729-1836. Link: <http://www.eurekaselect.com/100952/article>**
- Bhadury, PS*; Yang, S and Song, BA (2012): Catalytic Synthesis of Optically Active β -Amino Acid Derivatives. *Curr. Org. Synth.* 9 (5), 695-726(32 pages). (Review paper as the first and corresponding author).
- Bhadury, PS* and Li Hu (2012): Organocatalytic Asymmetric Hydrophosphonylation/Mannich Reactions Using Thiourea, Cinchona and Brønsted Acid Catalysts. *Synlett*, 23, Vol. 23, issue 08, 1108-1131 (24 pages) (Review paper as the first and corresponding author).
- Bhadury, PS*, Yao. Y and He, Y (2012): Organocatalytic Application of Axially Dissymmetric BINOLs and their Conversion into Binaphthyl Phosphoric Acids. *Curr. Org. Chem.* Vol. 16, no 15, 1730-1753 (23 pages) (Review paper as the first and corresponding author/Guest editor).
- Li, W.H.; Song, B.A.; Bhadury, P.S.; Li, L.; Wang, Z.C.; Zhang, X.Y.; Hu, D.Y.; Chen, Z.; Zhang, Y.P.; Bai, S.; Wu, J.; Yang, S. (2012): Chiral cinchona alkaloid-derived thiourea catalyst for enantioselective synthesis of novel β -amino esters by Mannich reaction. *Chirality*, 24, 223-231.
- Li, W.; Bhadury, P.S.; Yang, S and Song, BA (2012): Immobilized functionalized ionic liquids: efficient, green and reusable catalysts. *RSC Advances*, 2, 12525-12551.
- Wang, R.; Zhou, W.-W.; Hanna, M.A.; Zhang, Y.-P.; Bhadury, P.S.; Wang, Y.; Song, B.-A.; Yang, S. Biodiesel preparation, optimization, and fuel properties from non-edible stock, *Datura Stramonium* (2012). *Fuel*, 91(1), 182-186.
- Liu, J.-Z.; Song, B.-A.; Bhadury, P.S.; Hu, D.-Y.; Yang, S. Synthesis and bioactivities of α -aminophosphonate derivatives containing benzothiazole and thiourea moieties (2012). *Phosphorus, Sulfur and Silicon and the Related Elements*, 187 (1), 61-70.

2011

- Song Bai, Xueping Liang, Baoan Song, Pinaki S. Bhadury, Deyu Hu and Song Yang (2011): Asymmetric Mannich reactions catalyzed by cinchona alkaloid thiourea: enantioselective one-pot synthesis of novel β -amino ester derivatives. *Tetrahedron: Asymmetry*, 22(5), 518-523.
- Liang Li, Bao-An Song, Pinaki S. Bhadury, Yu-Ping Zhang, De-Yu Hu, Song Yang (2011): Enantioselective Synthesis of β -Amino Esters Bearing a Benzothiazole Moiety via a Mannich-type Reaction Catalyzed by a Cinchona Alkaloid. *European Journal of Organic Chemistry*, 2011, 4743-4746.
- Song Bai, Baoan Song, Pinaki S. Bhadury, Song Yang, Deyu Hu, Wei Xue (2011): [BMIM]Cl Catalyzed One-Pot Synthesis of α -Aminophosphonate Derivatives Containing a 4-Phenoxyquinazoline Moiety under Microwave Irradiation. *Chinese Journal of Chemistry*, 29(1), 109-117.
- Jun Zhou, Hui-Tao Fan, Bao-An Song, Lin-Hong Jin, Pinaki S. Bhadury, De-Yu Hu, Song Yang (2011): Synthesis and Antiviral Activities of α -Aminophosphonate Derivatives Containing a Pyridazine Moiety. *Phosphorus, Sulfur, and Silicon and the Related Elements*, 186 (1), 81-87.
- Rui Wang, Milford A. Hanna, Wan-Wei Zhou, Pinaki S. Bhadury, Qi Chen, Bao-An Song, Song Yang (2011): Production and selected fuel properties of biodiesel from promising non-edible oils: *Euphorbia lathyris* L., *Sapium sebiferum* L. and *Jatropha curcas* L. *Bioresource Technology*, 102 (2), 1194-1199.
- Rui Wang, Baoan Song, Wanwei Zhou, Yuping Zhang, Deyu Hu, Pinaki S. Bhadury, Song Yang (2011): A facile and feasible method to evaluate and control the quality of *Jatropha curcas* L. seed oil for biodiesel feedstock: Gas chromatographic fingerprint. *Applied Energy*, 88 (6), 2064-2070.
- Yuping Zhang, Xiaoyan Zhang, Jun Zhou, Baoan Song, Pinaki S Bhadury, Deyu Hu, Song Yang (2011): Analytical and semi-preparative HPLC enantioseparation of novel pyridazin-3(2H)-one derivatives with α -aminophosphonate moiety using immobilized polysaccharide chiral stationary phases. *Journal of Separation Science*, 34 (4), 402-408.
- Lintao Wu, Baoan Song, Pinaki S. Bhadury, Song Yang, Deyu Hu, Linhong Jin (2011): Synthesis and antiviral activity of novel pyrazole amides containing α -aminophosphonate moiety. *Journal of Heterocyclic Chem*, 48 (2), 389-396.
- Jian Wu, Song Yang, Bao-An Song, Pinaki S. Bhadury, De-Yu Hu, Song Zeng, Hua-Peng Xie (2011): Synthesis and insecticidal activities of novel neonicotinoidanalogs bearing an amide moiety. *Journal of Heterocyclic Chem*, 48 (2), 901-906.
- Yi Jin, Baoan Song, Deyu Hu, Xiangyang Li, Pinaki S. Bhadury, Zhenchao Wang, Song Yang (2011): Inorganic base-catalyzed formation of antivirally active N-substituted benzamides from α -amidodisulfones and N-nucleophile. *Chemistry Central Journal*, 2011, 5:21.
- Xuan Yang, Baoan Song, Linhong Jin, Wei Xue, Bhadury, Pinaki S, Xiangyang Li, Song Yang and Deyu Hu (2011): Synthesis and antiviral bioactivities of novel chiral bis-thiourea-type derivatives containing α -aminophosphonate moiety. *Sci China Chem.*, 54(1), 103-109.

- Xiaoqiang Xu, Xiuhong Gao, Linhong Jin, Pinaki S Bhadury, Kai Yuan, Deyu Hu, Baoan Song and Song Yang (2011): Antiproliferation and Cell Apoptosis Inducing Bioactivities of Constituents from *Dysosmaversipellis* in PC3 and Bcap-37 cell lines. *Cell Division*. 2011, 6:14 doi:10.1186/1747-1028-6-14
- Huitao Fan, Baoan Song, Pinaki S. Bhadury, Dandan Yu, Linhong Jin, Deyu Hu and Song Yang (2011): Antiviral activity and mechanism of action of novel thiourea containing chiral phosphonate on tobacco mosaic virus. *International Journal of Molecular Science*, 12(7), 4522-4535.
- Liu XH, Ruan BF, Li J, Song BA, Zhu HL, Bhadury PS, Zhao J (2011): **Synthesis and Biological Activity of Chiral Dihydropyrazole: Potential Lead for Drug Design**. *Mini Rev Med Chem*. 11 (9), 771-821.
- Lin, P.; Song, B.; Bhadury, P.S.; Hu, D.; Zhang, Y.; Jin, L.; Yang, S. Chiral cinchona alkaloid-thiourea catalyzed Mannich reaction for enantioselective synthesis of β -amino ketones bearing benzothiazole moiety (2011). *Chin. J. Chem.* 29 (11), 2433-2438
- Liu, X.-H.; Li, J.; Wua, F.-R.; Song, B.-A.; Bhadury, P.S.; Shi, L. Novel 3-(2-(3-methyl 5-substituted-phenyl-4,5-dihydropyrazol-1-yl)-2-oxoethoxy)-2-substituted-phenyl-4H-chromen-4-one: synthesis and anticancer activity (2011). *Med. Chem.* 7 (6), 605-610.
- Xu, W.; Yang, S.; Bhadury, P.S.; He, J.; He, M.; Gao, L.; Hu, D., Song, B. Synthesis and bioactivity of novel sulfone derivatives containing 2,4-dichlorophenyl substituted 1,3,4-oxadiazole/thiadiazole moiety as chitinase inhibitors (2011). *Pesticide Biochem. & Physiology*. 101 (1), 6-15.
- Ruan, Y.; Jin, L.; He, J.; Yang, S.; Bhadury, P.S.; He, M.; Wang, Z.; Song, B. Synthesis and antifungal activity of new 1-(2,4-dichlorophenyl)-3-aryl-2-(1H-1,2,4-triazol-1-yl)-prop-2-en-1-one derivatives (2011). *African J. Pharmacy & Pharmacology*. 5 (5), 602-607.

2010

- Bhadury, PS*.; Song, BA (2010): **Chemistry of organocatalytic asymmetric Mannich reactions**. *Curr. Org. Chem.*, 14 (20), 1989-2006. (Review paper as the first and corresponding author).
- Xu, W, Song, BA, Bhadury, PS, Song, Y, Hu, D (2010). Synthesis and crystal structure of novel sulfone derivatives containing 1,2,4-triazole moieties. *Molecules*. 15(2), 766-779.
- Yang, JQ, Song, BA, Bhadury, PS, Chen, Z.; Yang, S.; Cai, XJ, Hu, DY, Xue, W (2010): Synthesis and antiviral bioactivities of 2-cyano-3-substituted-amino(phenyl) methylphosphonylacrylates (acrylamides) containing alkoxyethyl moieties. *J. Agric. Food Chem.*, 58 (5), 2730-2735.
- Yuping Zhang, Song Bai, Baoan Song, Pinaki S. Bhadury, Deyu Hu, Song Yang, Xiaoyan Zhang, Huitao Fan and Ping Lu (2010): Enantioseparation and plant virucidal bioactivity of new quinazoline derivatives with α -aminophosphonate moiety. *Journal of Chromatography B*, 878, 1285-1289.
- Jing-Zi Liu, Bao-An Song, Hui-Tao Fan, Pinaki S. Bhadury, Wen-Ting Wan, Song Yang, Weiming Xu, Jian Wu, Lin-Hong Jin, Xue Wei, De-Yu Hu, Song Zeng (2010): Synthesis and in vitro study of pseudo-peptide thioureas containing α -aminophosphonate moiety as potential antitumor agents. *European Journal of Medicinal Chemistry*, 45, 5108-5112.
- Liu, XH, Liu, HF, Shen, X, Song, BA, Bhadury, PS, Zhu, HL, Liu, JX, Qi, XB (2010): Synthesis and molecular docking studies of novel 2-chloro-pyridine derivatives containing flavone moieties as potential antitumor agents. *Bioorg. & Med. Chem. Lett.*, 20 (14), 4163-4167.
- Xu W, Zhang S, Yang S, Jin LH, Bhadury PS, Hu DY, Zhang Y (2010): Asymmetric synthesis of α -aminophosphonates using the inexpensive chiral catalyst 1,1'-binaphthol phosphate. *Molecules*. 15(8), 5782-5796.
- Liu, J.; Yang, S.; Li, X.; Fan, H.; Bhadury, PS; Xu, W.; Wu, J.; Wang, Z. (2010): Synthesis and Antiviral Bioactivity of Chiral Thioureas Containing Leucine and Phosphonate Moieties. *Molecules*. 15(8), 5112-5123.
- Kai Cai, Yu-Ping Zhang, Pinaki S. Bhadury, Bin Liu, De-Yu Hu, Weiming Xu (2010): Derivatization and determination of MCPA in soil by GC. *Chromatographia*, 72(9-10), 933-939.
- Chen Z., Xu W., Liu K., Yang S., Fan H., Bhadury P.S., Huang D.-Y., Zhang Y (2010): Synthesis and Antiviral Activity of 5(4Chlorophenyl)-1,3,4-Thiadiazole Sulfonamides. *Molecules*. 15(12), 9046-9056.

2009

- Bhadury, PS*.; Song, BA ; Yang, S.; Hu, DY; and Xue, W. (2009): **Bifunctional Chiral Organocatalysts in Organic Transformations**. *Curr. Org. Synth.*, 6, 380-399. (Review paper as the first and corresponding author).
- Bhadury, PS; Zhang, YP; Zhang, S.; Song, BA ; Yang, S.; Hu, DY; Chen Z, Xue, W.; Jin, LH (2009): An effective route to fluorine containing asymmetric α -aminophosphonates using chiral Bronsted acid catalyst. *Chirality* . 21(5), 547-557. (First Author).

- Chen MH, Chen Z, Song BA, Bhadury PS, Yang S, Cai XJ, Hu DY, Xue W and Zeng S, (2009): Synthesis and antiviral activities of chiral thiourea derivatives containing an α -aminophosphonate moiety. *J. Agric Food Chem* .57 (4), 1383–1388).
- Wu, J.; Song, BA; Chen, HG; Bhadury, PS; Hu, DH (2009): Synthesis and Antifungal Activity of 5-Chloro-6-Phenylpyridazin-3(2H)-one Derivatives. *Molecules*. 14, 3676-3687.
- Yan, ZK; Cai, XJ; Yang Xuan.; Song BA; Chen, Z.; Bhadury, PS; Hu, DY; Jin LH; Xue, W.; Lu, P.(2009): Synthesis and Antiviral Activities of Chiral Thiourea Derivatives. *Chin. J. Chem.* 27 (03), 593-601.
- Xin-Hua Liu, Jing Zhu, An-na Zhou, Bao-An Song, Hai-Liang Zhu, Lin-Shan bai, Pinaki S.Bhadury, Chun-Xiu Pan (2009): Synthesis, structure and antibacterial activity of new 2-(1-(2-(substituted-phenyl)-5-methyloxazol-4-yl)-3-(2-substitued-phenyl)-4,5-dihydro-1H-pyrazol-5-yl)-7-substitued-1,2,3,4-tetrahydroisoquinoline derivatives. *Bioorg. & Med. Chem.* 17, 1207-1213.

2008

- Liu, XH; Song, BA ; Bhadury, PS; Zhu, HL; Cui, P; Hou, KK; Xu, HL (2008): Novel 5-(3-(Substituted)-4,5-dihydroisoxazol-5-yl)-2-methoxyphenyl Derivatives: Synthesis and Anticancer Activity. *Aust. J. Chem* . 61(11), 864-869.
- Hu, DY; Wan, QQ; Yang, S.; Song, BA; Bhadury, PS; Jin, LH; Yan, K.; Liu, F; Chen, Z.; Xue, W. (2008): Synthesis and Antiviral Activities of Amide Derivatives Containing α -Aminophosphonate Moiety. *J. Agric Food Chem.*, 56 (3), 998-1001.
- Ouyang, GP; Cai, XJ; Chen, Z.; Song, BA; Bhadury, PS; Yang, S.; Jin, LH; Xue, W. ; Hu, DY; Zeng, S. (2008): Synthesis and Antiviral Activities of Pyrazole Derivatives Containing Oxime Ethers Moiety. *J. Agric Food Chem* ., 56, 10160–10167).
- Ouyang, GP; Chen, Z.; Cai, XJ; Song, BA; Bhadury, PS; Yang, S.; Jin, LH; Xue, W.; Hu, DY; Zeng, S. (2008): Synthesis and Antiviral Activities of Pyrazole Derivatives Containing Oxime Esters Group. *Bioorg. & Med. Chem.*, 16, 9699–9707.
- Long, N.; Cai, XJ; Song, BA; Yang, S.; Chen, Z.; Bhadury, PS; Hu, DY; Jin, LH; Xue, W. (2008): Synthesis and Antiviral Activities of Cyanoacrylate Derivatives Containing an α -Aminophosphonate Moiety. *J. Agric Food Chem* ., 56(13), 5242- 5246.
- Yuping Zhang, Baoan Song, Pinaki S. Bhadury, Deyu Hu, Song Yang, Xia Shi, Dongmei Liu, Linhong Jin.(2008): Analytical and semi-preparative enantioseparation of organic phosphonates on derivatized amylose chiral stationary phases. *J. Sep. Sci* . 31, 2946–2952.
- Liu, F; Luo, XQ; Song, BA; Bhadury, PS; Yang, S.; Jin, LH; Xue, W.; Hu, DY (2008): Synthesis and antifungal activity of novel sulfoxidederivatives containing trimethoxyphenyl substituted 1, 3, 4-thiadiazole and 1, 3, 4-oxadiazole moiety. *Bioorg. & Med. Chem.* 16, 3632-3640.
- Liu, XH; Cui, P; Song, BA; Bhadury, PS; Zhu, HL; Wang, SF (2008): Synthesis, structure and antibacterial activity of novel 1-(5-substituted-3-substituted-4, 5- dihydropyrazol-1-yl)ethanoneoximeester derivatives. *Bioorg. & Med. Chem.* 16, 4075-4082.
- Chen, Z.; Wang, XY; Song, BA; Wang, H.; Bhadury, PS; Yan, K.; Yan, K.; Zhang, HP; Yang, S.; Jin, LH; Hu, DY; Xue, W.; Zeng, S.; Wang, J. (2008): Synthesis and antiviral activities of novel chiral cyanoacrylate derivatives with (E) configuration. *Bioorg. & Med. Chem.* 16, 3076-3083.
- Bhadury, PS*; Song, BA; Yang, S.; Zhang, Y.-P.; Zhang, S. (2008): Some Potential Chiral Catalysts for Preparation of Asymmetric α -Aminophosphonates. *Current Organic Synthesis*. 5, 134-150. (Review paper as the first and corresponding author).
- Chen, Z.; Liu, YM; Yang, S.; Song, BA; Xu, GF; Bhadury, PS; Jin, LH; Hu, DY; Liu, F; Xue W.; and Zhou, X.(2008): Studies on the chemical constituents and anticancer activity of *Saxifragastolonifera* (L) Meeb. *Bioorg. & Med. Chem.* 16, 1337-1344.
- Wu, Q.; Song, BA; Yang, S.; Bhadury, PS; Hu, DY; Xue, W.; Jin, LH; Chen, Z.(2008): In(OTf)₃-Mediated Facile Preparation of 2-Substituted methyl thio-5-([5-(3, 4, 5-trimethoxyphenyl)-1, 3, 4-thiadiazol-2-yl]thio)-methyl)-1, 3, 4-oxadiazole Derivates in Aqueous Media. *Chin J Chem*. 26(6), 1327-1331.
- Lu, P.; Zhang, Y P; Song, BA; Yang, S.; Bhadury, PS.; Hu, DY; Xue, W.; Chen, Z, Jin, LH. (2008): Chiral Separation of Novel α -Aminophosphonates Containing a Benzothiazole Moiety by Liquid Chromatography Using an Amylose Stationary Phase. *Chin. J. Chem* . 26(5), 1659-1665.
- Rui Wang, Song Yang, Shitao Yin, Baoan Song, Pinaki S. Bhadury, Wei Xue, Shuwei Tao, ZhaohuiJia, Da Liu and Liang Gao.(2008): Development of solid base catalyst X/Y/MgO/Y-Al₂O₃ for optimization of preparation of biodiesel from *Jatropha curcas* L. seed oil. *Frontiers of Chemical Engineering in China*, 2(4): 468-472.

2007

- Xu, GF; Song, BA; Bhadury, PS; Yang, S.; Zhang, PQ; Jin, LH; Wei Xue, W.; Hu, DY; Lu, P. (2007): Synthesis and antifungal activity of novel s-substituted 6-fluoro- 4-alkyl(aryl)thioquinazoline derivatives. *Bioorg. & Med. Chem.* 15, 3768-3774.
- Chen, CJ; Song, BA; Yang, S.; Xu, GP; Bhadury, PS; Jin, LH; Hu, DY; Li, QZ; Liu, F.; Xue, W.; Lu, P.; Chen, Z.. (2007): Synthesis and antifungal activities of sulfone derivatives containing trimethoxyphenyl substituted 1, 3, 4- thiadiazole and 1, 3, 4-oxadiazole moiety. *Bioorg. & Med. Chem.* 15, 3981–3989.
- Liu, G.; Hu, DY; Jin, L. H; Song, BA; Yang, S.; Liu, Bhadury, PS; Ma, Y.; Luo, H.; and Zhou, X. (2007): Synthesis and bioactivities of 6, 7, 8-trimethoxy-N-aryl- 4-aminoquinazoline derivatives. *Bioorg. & Med. Chem.* 15, 6608–6617.
- Lv, YP; Wang, XY; Song, BA; Yang, S.; Yan, K.; Xu, GF; Bhadury, PS; Liu, F.; Jin, LH; and Hu, DY (2007): Synthesis, Antiviral and Antifungal Bioactivity of 2-Cyanoacrylate Derivatives Containing Phosphonyl Moieties. *Molecules* 12, 965-978.
- Bhadury, P.S*, Singh, S., Sharma, M., and Palit, M. (2007): Pyrolysis of polytetrafluoroethylene (teflon) in a quartz assembly. *J. Analytical and Applied Pyrolysis.* 78, 288-290 (First and Corresponding Author).

2006

- Bhadury, P.S*. isur (2006): Sintezaiarakterizacija 2H-heptafluoropropana (HFC-227 ea) Pregledtehničke literature idokumentacije, *Kem. Ind.*55 (1), 59–64(First and Corresponding Author).

2005

- Bhadury, P. S*, Dubey, V., Singh, S., and Saxena, C. (2005):Synthesis and characterization of 2,2-bis (3-allyl-4-hydroxyphenyl) hexafluoropropane and fluorosiloxane for sensor interface material. *J. Fluorine Chem.* 126, 1252-1256 (First and Corresponding Author).

2004

- Bhadury, P.S*, Singh, S., Sharma, M., Palit, M and Jaiswal, D.K. (2004): Fluorine chemistry. Part 1: Wittig Based Synthesis of Volatile Organofluorine Compounds. *Can. J. Chem.* 82, 1186-1191 (First and Corresponding Author).
- Singh, S., Bhadury, P.S*, Sharma, M., Palit, M.andJaiswal, D.K. (2004):Difluorocarbene induced facile Synthesis of Chlorohydrins from Glycidyl ethers. *Can. J. Chem.* 82, 1249-1253 (Corresponding Author).
- Bhadury, P. S*, Singh, S., Sharma, M., Malhotra, R. C., and Sekhar, K. (2004): Fluorine chemistry. Part 2: Synthesis and characterization of 2H-heptafluoropropane (HFC-227ea). *Can. J. Chem.* 82, 1381-1385 (First and Corresponding Author).

2002

- Bhadury, P.S., Palit, M., Sharma., Raza, S.K. and Jaiswal, D.K. (2002): Synthesis, characterization and mass spectrometric fragmentation of –O– (Chlorodifluoroacylated) alcohols. *J. Fluorine Chem.* 113, 47-50 (First Author).
- Bhadury, P.S., Palit, M., Sharma., Raza, S.K. and Jaiswal, D.K. (2002) : Fluorinated phosphoniumylides: versatile in situ Wittig intermediates in the Synthesis of Hydrofluorocarbons. *J. Fluorine Chem.* 116, 75-80 (First Author).
- Rao, M.K., Bhadury, P.S., Sharma, M., Bhaskar, A.S.B., Dangi, R.S., Raza, S.K. and Jaiswal, D.K. (2002): A facile methodology for the synthesis and detection of N7-Guanine adduct of Sulfur- mustard as a Biomarker. *Can. J. Chem.* 80, 504-509.

1999

- Bhadury, P.S., Raza, S.K. and Jaiswal, D.K. (1999): A semi-molten mixture of Hexadecyltrybutylphosphonium bromide and Potassium fluoride in the synthesis of Organofluorine compounds. *J. Fluorine Chem.* 99, 115-117 (First Author).

1997

- Bhadury, P.S., Pant, B.P., Palit, M.andJaiswal, D.K. (1997): Synthesis of 2-Phenylperfluoropropene and 1,1,1,3,3,3- Hexafluoro-2- Phenylpropane. *J. Fluorine Chem.* 85, 115-116 (First Author).

1995

- Bhadury, P.S., Pandey, M. and Jaiswal, D.K. (1995): A Facile synthesis of Organofluorine compounds using a Semi-molten mixture of Tetra-butylammonium bromide and an Alkali metal fluoride. J. Fluorine Chem. 73, 185-187 (First Author).

1990

- Batra, N.K., and Bhadury, P.S. (1990): Silica reduction studies in a blast furnace. Ironmaking and Steelmaking, 17, 389-393.