

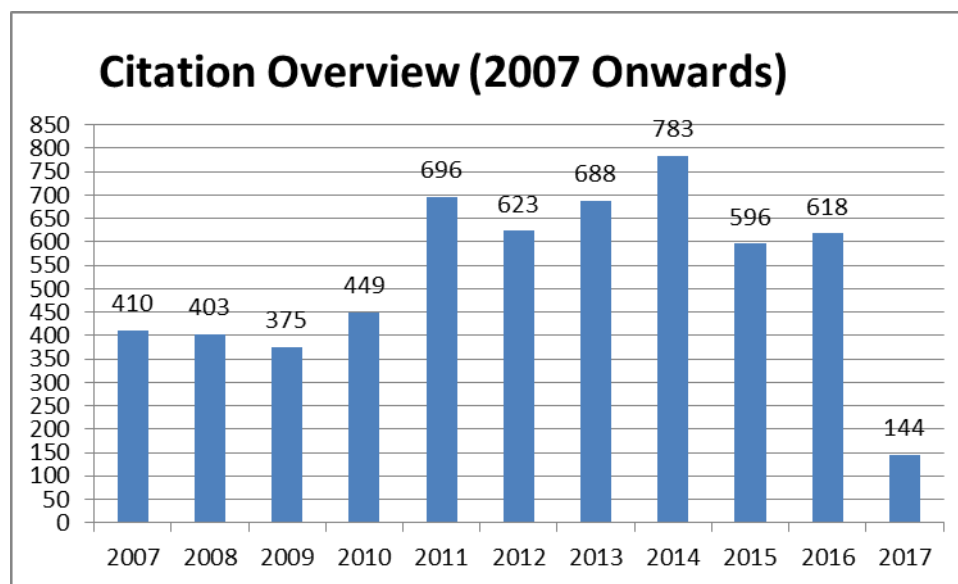
COMPLETE LIST OF PUBLICATIONS

DR. ASIT KUMAR CHAKRABORTI

Research Output/Contribution:

- I) **Publications:** Research Article 159; Review Article 4; Book Chapter 2
[Scopus Citation: 6643; Citation per paper 40.75; *h*-Index: 50]
[Google Scholar: 7360; Citation per paper 45.15; *h*-Index: 51; *i10*-Index: 122]
[Impact Factor (IF) 2015/16: Cumulative IF: 583.298; Average IF: 3.578]

Website: <http://akcresearchgroup.weebly.com/>



Research Articles: Total 159 [Scopus citation against each article provided]

1. Priyank Purohit, Kapileswar Seth, Asim Kumar, and Asit K Chakraborti,* “C-O Bond Activation by Nickel-Palladium Hetero-Bimetallic Nano-Particles for Suzuki-Miyaura Reaction of Bioactive Heterocycle-Tethered Sterically Hindered Aryl Carbonates,” *ACS Catal.*, **2017**, DOI: 10.1021/acscatal.6b02912. **IF: 9.307**.
2. Bhavin Pipaliya and Asit K. Chakraborti, “Cross Dehydrogenative Coupling of Heterocyclic Scaffolds with Unfunctionalised Aroyl Surrogates by Palladium(II) Catalyzed C(sp²)-H Aroylation through Organocatalytic Dioxxygen Activation,” *J. Org. Chem.*, **2017**, DOI: 10.1021/acs.joc.7b00226. **IF: 4.785**
3. Babita Tanwar, Asim Kumar, Perumal Yogeewari, Dharmarajan Sriram, Asit K Chakraborti,* “Design, Development of New Synthetic Methodology, and Biological Evaluation of Substituted Quinolines as New Anti-tubercular Leads,” *Bioorg. Med. Chem. Lett.*, **2016**, 26, 5960-5966. **IF: 2.486**.
4. Tarun Handa, Shalu Jhajra, Shweta Bhagat, P. V. Bhartam, Asit K. Chakraborti, Saranjit Singh* “Molecular insight into atypical instability behavior of fixed-dose combination containing amlodipine mesylate and losartan potassium,” *J. Pharm. Biomed. Anal.* <http://dx.doi.org/10.1016/j.jpba.2016.12.035>. **IF: 3.169**.
5. Minhajul Arfeen, Shweta Bhagat, Rahul Patel, Shivcharan Prasad, Ipsita Roy, Asit K. Chakraborti and Prasad V. Bharatam* “Design, synthesis and biological evaluation of 5-benzylidene-2-iminothiazolidin-4-ones as selective GSK-3 β Inhibitors,” *Eur. J. Med. Chem.*, DOI:10.1016/j.ejmech.2016.04.075. **IF: 3.902**

6. Sumit Sunil Chourasiya, Deepika Kathuria, Sampada Sunil Nikam, Ashok Ramakrishnan, Sadhika Khullar, Sanjay K. Mandal, * Asit K Chakraborti,* and Prasad V. Bharatam,* “On the Azine-Hydrazone Tautomerism of Guanylhyazones: Evidence for the Preference Towards the Azine Tautomer,” *J. Org. Chem.*, **2016**, *81*, 7574-7583. **IF: 4.785**
7. Kapileswar Seth, Sudipta Raha Roy and Asit K. Chakraborti,* “The palladium and copper contrast: a twist to products of different chemotypes and altered mechanistic pathways,” *Catal. Sci. Technol.*, **2016**, *6*, 2892–2896. **Cited 2 times. IF: 5.287**
8. Pradeep S. Jadhavar, Tejas M. Dhameliya, Maulikkumar D. Vaja, Dinesh Kumar, Jonnalagadda Padma Sridevi, Perumal Yogeshwari, Dharmarajan Sriram and Asit K. Chakraborti,* “Synthesis, biological evaluation and structure–activity relationship of 2-styrylquinazolones as anti-tubercular agents,” *Bioorg. Med. Chem. Lett.*, **2016**, *26*, 2663–2669. **Cited 1 time. IF: 2.486.**
9. Sahaj Pancholia, Tejas M. Dhameliya, Parth Shah, Pradeep S. Jadhavar, Jonnalagadda Padma Sridevi, Perumal Yogeshwari, Dharmarajan Sriram and Asit K. Chakraborti,* “Benzo[d]thiazol-2-yl(piperazin-1-yl)methanones as New Anti-mycobacterial Chemotypes: Design, Synthesis, Biological Evaluation and 3D-QSAR Studies,” *Eur. J. Med. Chem.*, **2016**, *116*, 187–199. **Cited 2 times. IF: 3.902**
10. Kapileswar Seth, Sudipta Raha Roy and Asit K. Chakraborti,* “Synchronous Double C-N Bond Formation via C-H Activation as a Novel Synthetic Route to Phenazine,” *J. Chem. Soc. Chem. Commun.*, **2016**, *52*, 922-925. **Cited 4 times. IF: 6.567**
11. Naisargee Parikh, Sudipta Raha Roy, Kapileswar Seth, Asim Kumar and Asit K. Chakraborti,* ““On-water” multicomponent reaction for the diastereoselective synthesis of functionalized tetrahydropyridines and mechanistic insight,” *Synthesis* **2016**, *48*, 547-556. **Cited 2 times. IF: 2.652**
12. Vaibhav A. Dixit, Prakash Chandra Rathi, Shweta Bhagat, Holger Gohlke, Rasmus K. Petersen, Karsten Kristiansen, Asit K. Chakraborti, Prasad V. Bharatam,* "Design and synthesis of novel Y-shaped barbituric acid derivatives as PPAR γ activators," *Eur. J. Med. Chem.*, **2016**, *108*, 423-435. **Cited 1 time. IF: 3.902.**
13. Prasad V. Bharatam,* Minhajul Arfeen, Neha Patel, Priyanka Jain, Sonam Bhatia, Asit K. Chakraborti,* Sadhika Khullar, Vijay Gupta and Sanjay K. Mandal,* “Design, Synthesis, Structural Analysis of Novel Divalent N(I) Compounds and the Identification of a new Electron Donating Ligand,” *Chem. Eur. J.*, **2016**, *22*, 1088-1096. **Cited 2 times. IF: 5.771**
14. Babita Tanwar, Dinesh Kumar, Asim Kumar, Md. Imam Ansari, Mohammad Mohsin Qadri, Maulikkumar D. Vaja, Madhulika Singh, and Asit K. Chakraborti,* “Friedländer annulation: Scope and limitations of metal salt Lewis acid catalysts in selectivity control for the synthesis of functionalised quinolines,” *New J. Chem.*, **2015**, *39*, 9824-983. **Cited 3 times. IF: 3.277**
15. Sumit S. Chourasiya, Deepika Kathuria, Shaminder Singh, Vijay C. Sonwane, Asit K. Chakraborti and Prasad V. Bharatam,* “Design, Synthesis and Biological Evaluation of Novel Unsymmetrical Azines as Quorum Sensing Inhibitors,” *RSC Advances*, **2015**, *5*, 80027-80038. **Cited 1 time. IF: 3.289**
16. Dinesh Kumar, Pradeep S. Jadhavar, Manesh Nautiyal, Himanshu Sharma, Prahlad K. Meena, Legesse Adane, Sahaj Pancholia, and Asit K. Chakraborti,* “Convenient synthesis of 2,3-disubstituted quinazolin-4(H)-ones and 2-styryl-3-substituted

- quinazolin-4(3H)-ones: Applications towards the synthesis of drugs,” *RSC Advances*, **2015**, 5, 30819-30825. **Cited 10 times. IF: 3.289**
17. Babita Tanwar, Priyank Purohit, Banothu Naga Raju, Dinesh Kumar, Damodara N. Kommi, and Asit K. Chakraborti,* “An “all-water” strategy for regiocontrolled synthesis of 2-aryl quinoxalines,” *RSC Advances*, **2015**, 5, 11873-11883. **Cited 12 times. IF: 3.289**
 18. Kapileswar Seth, Manesh Nautiyal, Priyank Purohit, Naisargee Parikh, and Asit K. Chakraborti,* “Palladium Catalyzed C_{sp2}-H Activation for Direct Aryl Hydroxylation: Unprecedented Role of 1,4-Dioxane as Source of Hydroxyl Radical,” *J. Chem. Soc. Chem. Commun.*, **2015**, 51, 191-194. **Cited 20 times. IF: 6.567**
 19. Dinesh Kumar, Asim Kumar, Mohammad Mohsin Qadri, Md. Imam Ansari, Abhishek Gautam and Asit K. Chakraborti,* “In(OTf)₃-catalyzed synthesis of 2-styryl quinolines: scope and limitations of metal Lewis acids for tandem Friedländer annulation–Knoevenagel condensation,” *RSC Advances*, **2015**, 5, 2920-2927. **Cited 6 times. IF: 3.289**
 20. Shaminder Singh, Pravin J. Wanjari, Sonam Bhatia, Vijay C. Sonwane, Asit K. Chakraborti and Prasad V. Bharatam,* “Design, synthesis, biological evaluation and toxicity studies of *N,N*-disubstituted biguanides as quorum sensing inhibitors,” *Med. Chem. Res.*, **2015**, 24, 1974-1987. **Cited 3 times. IF: 1.436**
 21. Parth Shah, Tejas M. Dhameliya, Rohit Bansal, Manesh Nautiyal, Damodara N. Kommi, Pradeep S. Jadhavar, Jonnalagadda Padma Sridevi, Perumal Yogeewari, Dharmarajan Sriram, and Asit K. Chakraborti,* “*N*-Arylalkylbenzo[*d*]thiazole-2-carboxamides as anti-mycobacterial agents: Design, new methods of synthesis and biological evaluation,” *Med. Chem. Commun.* **2014**, 5, 1489-1495. **Cited 5 times. IF: 2.319**
 22. Kapileswar Seth, Sanjeev K. Garg, Raj Kumar, Priyank Purohit, Vachan S. Meena, Rohit Goyal, Uttam C. Banerjee and Asit K. Chakraborti,* “2-(2-Arylphenyl)benzoxazole As a Novel Anti-Inflammatory Scaffold: Synthesis and Biological Evaluation,” *ACS Med. Chem. Lett.* **2014**, 5, 512-516. **Cited 16 times. IF: 3.355**
 23. Kapileswar Seth, Priyank Purohit, and Asit K. Chakraborti,* “Cooperative Catalysis by Palladium-Nickel Binary Nanocluster for Suzuki-Miyaura Reaction of *Ortho*-Heterocycle-Tethered Sterically Hindered Aryl Bromides,” *Org. Lett.* **2014**, 16, 2334-2337. **Cited 12 times. IF: 6.732**
 24. Linga Banoth, Bhukya Chandarrao, Brahmam Pujala, Asit K. Chakraborti,* U. C. Banerjee, “New and Efficient Chemo-enzymatic Synthesis of (*R*)- and (*S*)-Bunitrolol,” *Synthesis* **2014**, 46, 479-488. **Cited 3 times. IF: 2.652**
 25. L Adane, S. Bhagat, M. Arfeen, S. Bhatia, R. Sirawaraporn, W. Sirawaraporn, Asit K. Chakraborti, P. V. Bharatam, “Design and synthesis of guanylthiourea derivatives as potential inhibitors of *Plasmodium falciparum* dihydrofolate reductase enzyme,” *Bioorg. Med. Chem. Lett.* **2014**, 24, 613-617. **Cited 8 times. IF: 2.486**
 26. Kapileswar Seth, Sudipta Raha Roy, Damodara N. Kommi, Bhavin V. Pipaliya and Asit K. Chakraborti,* “Silver nanoparticle-catalysed phenolysis of epoxides under neutral conditions: scope and limitations of metal nanoparticles and applications

- towards drug synthesis,” *J. Mol. Catal. A: Chem.* **2014**, 392C, 164-172. **Cited 6 times. IF: 3.958**
27. Srikant Bhagat, Parth Shah, Sanjeev K. Garg, Shweta Mishra, Preet Kamal, Sushma Singh and Asit K. Chakraborti,* “ α -Aminophosphonates as novel antileishmanial chemotypes: synthesis, biological evaluation, and CoMFA studies,” *Med. Chem. Commun.* **2014**, 5, 665-670. **Cited 10 times. IF: 2.319**
 28. Linga Banoth, Brahmam Pujala, Asit K. Chakraborti and Uttam C. Banerjee,* “Development and validation of HPLC method for the resolution of derivatives of 1-bromo-3-chloro-2-propanol: a novel chiral building block for the synthesis of pharmaceutically important compounds,” *J. Anal. Chem.* **2014**, 69, 1206-1213. **IF: 0.694**
 29. Dinesh Kumar, Mukesh Sonawane, Brahmam Pujala, Varun K. Jain, Srikant Bhagat and Asit K. Chakraborti,* “Supported protic acid-catalyzed synthesis of 2,3-disubstituted thiazolidin-4-ones: enhancement of the catalytic potential of protic acid by adsorption on solid support,” *Green Chem.* **2013**, 15, 2872-2884. **Cited 20 times. IF: 8.506**
 30. Dinesh Kumar, Kapileswar Seth, Damodara N. Kommi, Srikant Bhagat and Asit K. Chakraborti,* “Surfactant micelles as microreactors for the synthesis of quinoxalines in water: scope and limitations of surfactant catalysis,” *RSC Advances*, **2013**, 3, 15157-15168. **Cited 23 times. IF: 3.289**
 31. Kapileswar Seth, Sudipta Raha Roy, Bhavin V. Pipaliya and Asit K. Chakraborti,* “Synergistic Dual Activation Catalysis by Palladium Nanoparticles for Epoxide Ring Opening with Phenols,” *J. Chem. Soc. Chem. Commun.*, **2013**, 49, 5886 - 5888. **Cited 23 times. IF: 6.567**
 32. Damodara N. Kommi, Dinesh Kumar, Kapileswar Seth, and Asit K. Chakraborti,* “Protecting group-free concise synthesis of (*RS*)/(*S*)-lubeluzole,” *Org. Lett.* **2013**, 15, 1158-1161. **Cited 19 times. IF: 6.732**
 33. Damodara N. Kommi, Dinesh Kumar, and Asit K. Chakraborti,* ““All-water chemistry” for a concise total synthesis of the novel class antianginal drug (*RS*), (*R*), (*S*)-ranozaline,” *Green Chem.* **2013**, 15, 756-767. **Cited 20 times. IF: 8.506**
 34. Damodara N. Kommi, Pradeep S. Jadhavar, Dinesh Kumar, and Asit K. Chakraborti,* “All water” one-pot diverse synthesis of 1,2-disubstituted benzimidazoles: hydrogen bond driven ‘synergistic electrophile-nucleophile dual activation’ by water,” *Green Chem.* **2013**, 15, 798-810. **Cited 40 times. IF: 8.506**
 35. Dinesh Kumar, Damodara N. Kommi, Rajesh Chebolu, Sanjeev K. Garg, Raj Kumar and Asit K. Chakraborti,* “Selectivity control during the solid supported protic acid catalysed synthesis of 1,2-disubstituted benzimidazoles and mechanistic insight to rationalize selectivity,” *RSC Advances* **2013**, 3, 91-98. **Cited 13 times. IF: 3.289**
 36. Linga Banoth, Thete K Narayana, Brahmam Pujala, Asit K. Chakraborti and Uttam Chand Banerjee “New chemo-enzymatic synthesis of (*R*)-1-chloro-3-(piperidin-1-yl) propan-2-ol,” *Tetrahedron Asymmetry* **2012**, 23, 1564-1570. **Cited 3 times. IF: 2.108**
 37. Damodara N. Kommi, Dinesh Kumar, Rohit Bansal, Rajesh Chebolu and Asit K. Chakraborti,* ““All-water” chemistry of tandem *N*-alkylation-reduction-condensation for synthesis of *N*-arylmethyl-2-substituted benzimidazoles,” *Green Chem.* **2012**, 14, 3329-3335. **Highlighted in RSC Blog by Mary Badcock, Development**

Editor, *Green Chemistry*, and may also be included in future promotional material or press releases for *Green Chemistry*. Cited 29 times. IF: 8.506

38. Rajesh Chebolu, Damodara N. Kommi, Dinesh Kumar, Narendra Bollineni and Asit K. Chakraborti,* "Hydrogen-bond driven electrophilic activation for selectivity control: the scope and limitations of fluorous alcohol promoted selective formation of 1,2-disubstituted benzimidazoles and mechanistic insight for rational of selectivity," *J. Org. Chem.* **2012**, *77*, 10158-10167. **Cited 41 times. IF: 4.785**
39. Dinesh Kumar, Damodara N. Kommi, Alpesh R. Patel and Asit K. Chakraborti,* "L-Proline catalysed activation of methyl ketones/active methylene compounds and DMF-DMA for synthesis of (2*E*)-3-dimethylamino-2-propen-1-ones," *Eur J. Org. Chem.* **2012**, 6407-6413. **Cited 6 times. IF: 3.068**
40. Dinesh Kumar, Damodara N. Kommi, Alpesh R. Patel and Asit K. Chakraborti,* "Catalytic procedures for multicomponent synthesis of imidazoles: selectivity control during the competitive formation of tri- and tetra-substituted imidazoles," *Green Chem.* **2012**, *14*, 2038-2049. **Cited 31 times. IF: 8.506**
41. Anirban Sarkar, Sudipta Raha Roy, Dinesh Kumar, Chetna Madaan, Santosh Rudrawar, Asit K. Chakraborti,* "Lack of correlation between catalytic efficiency and basicity of amines during the reaction of aryl methyl ketones with DMF-DMA: an unprecedented supramolecular domino catalysis," *Org. Biomol. Chem.* **2012**, *10*, 281-286. **Cited 10 times. IF: 3.559**
42. Brahmam Pujala, Shivani Rana, Asit K. Chakraborti,* "Zinc Tetrafluoroborate Hydrate as a Mild Catalyst for Epoxide Ring-opening with Amines: Scope and Limitations of Metal Tetrafluoroborates and Applications in the Synthesis of Anti-hypertensive Drugs (*RS*)/(*R*)/(*S*)-Metoprolols," *J. Org. Chem.* **2011**, *76*, 8768-8780. **Cited 39 times. IF: 4.785**
43. Abhishek Kaler, Vachan Singh Meena, Manpreet Singh, Brahmam Pujala, Asit K. Chakraborti, Uttam Chand Banerjee, "Lipase-mediated kinetic resolution of (*RS*)-1-bromo-3-[4-(2-methoxy-ethyl)-phenoxy]-propan-2-ol to (*R*)-1-bromo-3-(4-(2-methoxyethyl) phenoxy) propan-2-yl acetate," *Tetrahedron Lett.* **2011**, *52*, 5355-5358. **Cited 2 times. IF: 2.347**
44. Anirban Sarkar, Sudipta Raha Roy, Naisargee Parikh, Asit K. Chakraborti,* "Non-solvent application of ionic liquids: organo-catalysis by 1-alkyl-3-methylimidazolium cation based room temperature ionic liquids for chemoselective *N*-tert-butylloxycarbonylation of amines and the influence of the C-2 hydrogen on catalytic efficiency," *J. Org. Chem.* **2011**, *76*, 7132-7140. **Cited 58 times. IF: 4.785**
45. Sudipta Raha Roy, Pradeep S. Jadhavar, Kapileswar Seth, Kulin K. Sharma, Asit K. Chakraborti,* "Organo-catalytic Application of Room Temperature Ionic Liquids: [bmim][MeSO₄] as a Recyclable Organo-catalyst for One-pot Multicomponent Reaction for Preparation of Dihydropyrimidinones and -thiones," *Synthesis* **2011**, 2261-2267. **Cited 34 times. IF: 2.652**
46. Sachin Bindal, Dinesh Kumar, Damodara N. Kommi, Sonam Bhatiya, Asit K. Chakraborti,* "An Efficient Organocatalytic Dual Activation Strategy for Preparation of the Versatile Synthons 2(*E*)-1-Aryl/heteroaryl/styryl-3-dimethylamino-2-propen-1-ones and α -(*E*)-Dimethylaminoformylidene cycloalkanones," *Synthesis* **2011**, 1930-1935. **Cited 9 times. IF: 2.652**
47. Anirban Sarkar, Sudipta Raha Roy and Asit K. Chakraborti,* "Ionic Liquid Catalysed Reaction of Thiols with α,β -Unsaturated Carbonyl Compounds- Remarkable

- Influence of the C-2 Hydrogen and the Anion,” *J. Chem. Soc. Chem. Commun.* **2011**, 47, 4538-4540. **Cited 60 times. IF: 6.567**
48. Naisargee Parikh, Dinesh Kumar, Sudipta Raha Roy and Asit K. Chakraborti,* “Surfactant mediated oxygen reuptake in water for green aerobic oxidation: mass-spectrometric determination of discrete intermediates to correlate oxygen uptake with oxidation efficiency,” *J. Chem. Soc. Chem. Commun.* **2011**, 47, 1797-1799. **Cited 58 times. IF: 6.567**
 49. Sudipta Raha Roy and Asit K. Chakraborti,* “Supramolecular Assemblies in Ionic Liquid catalysis for Aza-Michael Reaction,” *Org. Lett.* **2010**, 12, 3866-3869. **Cited 69 times. IF: 6.732**
 50. Anuradha Ghosh, Meenu Khurana, Archana Chauhan, Masahiro Takeo, Asit K. Chakraborti, and Rakesh K. Jain, “Degradation of 4-nitrophenol, 2-chloro-4-nitrophenol, and 2,4-dinitrophenol by *Rhodococcus imtechensis* strain RKJ300,” *Environ. Sci. Technol.* **2010**, 44, 1069-1077. **Cited 47 times. IF: 5.393**
 51. Asit K. Chakraborti* and Sudipta Raha Roy, “On Catalysis by Ionic Liquids,” *J. Am. Chem. Soc.* **2009**, 131, 6902-6903. **Selected for display in Nature Publishing Groups Asia Materials website. Cited 139 times. IF: 13.038**
 52. Asit K. Chakraborti* and Sunay V. Chankeshwara, “Counterattack Mode Differential Acetylative Deprotection of Phenylmethyl Ethers: Applications to Solid Phase Organic Reactions,” *J. Org. Chem.* **2009**, 74, 1367-1370. **Cited 15 times. IF: 4.785**
 53. Asit K. Chakraborti,* Bavneet Singh, Sunay V. Chankeshwara and Alpesh R. Patel, “Protic acid immobilised on solid support as an extremely efficient recyclable catalyst system for a direct and atom economical esterification of carboxylic acids with alcohols,” *J. Org. Chem.* **2009**, 74, 5967-5974. **Selected by the Editorial Board of SYNFACTS for its important insights and published the highlights in SYNFACTS Issue 11/09. Cited 59 times. IF: 4.785**
 54. Aditya M. Kaushal, Asit K. Chakraborti and Arvind K. Bansal,* “FTIR Studies on Different Intermolecular Association in the Crystalline and Amorphous States of Structurally Related Non Steroidal Anti-inflammatory Drugs,” *Molecular Pharmaceutics* **2008**, 5, 937-945. **Cited 39 times. IF: 4.342**
 55. Dinesh Kumar, Santosh Rudrawar and Asit K. Chakraborti,* “One-pot synthesis of 2-substituted benzoxazoles directly from carboxylic acids,” *Aust. J. Chem.* **2008**, 61, 881-887. **Cited 25 times. IF: 1.427**
 56. Sunay V. Chankeshwara, Rajesh Chebolu and Asit K. Chakraborti*, “Organocatalytic methods for chemo-selective *O-tert*-butoxycarbonylation of phenols and their regeneration from the *O-t*-Boc derivatives,” *J. Org. Chem.* **2008**, 73, 8615-8618. **Cited 18 times. IF: 4.785**
 57. Asit K. Chakraborti,* Sudipta Raha Roy, Dinesh Kumar, Pradeep Chopra, “Catalytic application of room temperature ionic liquids: [bmim][MeSO₄] as a recyclable catalyst for synthesis of bis(indolyl)methanes. Ion-fishing by MALDI-TOF-TOF MS and MS/MS studies to probe the proposed mechanistic model of catalysis,” *Green Chem.* **2008**, 10, 1111-1118. **Cited 104 times. IF: 8.506**
 58. S. Sundriyal, B. Viswanad, P. Ramarao, Asit K. Chakraborti, P. V. Bharatam, “New PPAR γ Ligands Based on Barbituric acid: Virtual Screening, Synthesis and Receptor

- Binding Studies,” *Bioorg. Med. Chem. Lett.* **2008**, *18*, 4959-4962. **Cited 17 times. IF: 2.486**
59. Srikant Bhagat and Asit K. Chakraborti*, “Zirconium(IV) compounds as efficient catalysts for synthesis of α -aminophosphonates,” *J. Org. Chem.* **2008**, *73*, 6029-6032. **Cited 96 times. IF: 4.785**
 60. Gaurav Sharma, Raj Kumar and Asit K. Chakraborti*, “Fluoroboric Acid Adsorbed on Silica-gel as a New, Highly Efficient and Reusable Heterogeneous Catalyst for Thia-Michael Addition to α,β -Unsaturated Carbonyl Compounds,” *Tetrahedron Lett.* **2008**, *49*, 4272-7275. **Cited 67 times. IF: 2.347**
 61. Gaurav Sharma, Raj Kumar and Asit K. Chakraborti*, “On Water” Synthesis of 2,4-Diaryl-2,3-dihydro-1,5-benzothiazepines Catalysed by Sodium Dodecyl Sulphate (SDS),” *Tetrahedron Lett.* **2008**, *49*, 4269-4271. **Cited 64 times. IF: 2.347**
 62. Sandeep Sundriyal, Bhoomi Viswanad, Elumalai Bharathy, Poduri Ramarao, Asit K. Chakraborti and Prasad V. Bharatam,* “New PPAR γ Ligands Based on 2-Hydroxy-1,4-naphthoquinone: Computer-Aided Design, Synthesis and Receptor Binding Studies,” *Bioorg. Med. Chem. Lett.* **2008**, *18*, 3192-3195. **Cited 10 times. IF: 2.486**
 63. Rajesh Chebolu, Sunay V. Chankeshwara and Asit K. Chakraborti*, “Triphenylphosphine as a novel organo-catalyst for chemo-selective *O*-tert-butoxycarbonylation of phenols,” *Synthesis* **2008**, 1448-1455. **Cited 7 times. IF: 2.652**
 64. Dinesh Kumar, Raj Kumar and Asit K. Chakraborti*, “Tetrafluoroboric Acid Adsorbed on Silica-Gel as a Reusable Heterogeneous Dual-Purpose Catalyst for Conversion of Aldehydes/Ketones into Acetals/Ketals and Back Again,” *Synthesis* **2008**, 1249-1256. **Cited 19 times. IF: 2.652**
 65. Asit K. Chakraborti*, Santosh Rudrawar, Kirtikumar B. Jadhav, Gurmeet Kaur and Sunay V. Chankeshwara, “On Water” Organic Synthesis: A Highly Efficient and Clean Synthesis of 2-Aryl/Heteroaryl/Styryl Benzothiazoles and 2-Alkyl/Aryl Alkyl Benzothiazolines,” *Green Chem.* **2007**, *9*, 1335-1340. **Cited 130 times. IF: 8.506**
 66. Sonia Bhardwaj, Anshuman Shukla, Sourav Mukherjee, Swati Sharma, Purnananda Guptasarma, Asit K. Chakraborti, Arunaloke Chakraborti, “Putative structure and characteristics of a red water-soluble pigment secreted by *Penicillium Marneffeii*,” *Medical Mycology* **2007**, *45*, 419-427. **Cited 10 times. IF: 2.644**
 67. Hashim F. Motiwala, Raj Kumar and Asit K. Chakraborti,* “Microwave-Accelerated Solvent- and Catalyst-free Synthesis of 4-Aminoaryl/alkyl-7-chloroquinolines and 2-Aminoaryl/alkylbenzothiazoles,” *Aust. J. Chem.* **2007**, *60*, 369-374. **Cited 34 times. IF: 1.427**
 68. Shivani, Brahmam Pujala and Asit K. Chakraborti* “Zinc(II) perchlorate hexahydrate catalysed opening of epoxide ring by amines: applications to synthesis of (*RS*)/(*R*)-propranolols and (*RS*)/(*R*)/(*S*)-naftopidils,” *J. Org. Chem.* **2007**, *72*, 3713-3722. **Cited 103 times. IF: 4.785**
 69. Hemant Bhutani, Saranjit Singh, Sanjay Vir, K. K. Bhutani, Raj Kumar, Asit K. Chakraborti, K. C. Jindal, “LC and LC-MS study of stress decomposition behaviour of isoniazid and establishment of validated stability-indicating assay method,” *J. Pharm. Biomed. Anal.* **2007**, *43*, 1213-1220. **Cited 36 times. IF: 3.169**

70. Shivani, Rajesh Gulhane and Asit K. Chakraborti,* "Zinc perchlorate hexahydrate [Zn(ClO₄)₂·6H₂O] as acylation catalyst for poor nucleophilic phenols, alcohols and amines: Scope and limitations." *J. Mol. Catal. A: Chem.* **2007**, *264*, 208-213. **Cited 40 times. IF: 3.958**
71. Srikant Bhagat and Asit K. Chakraborti,* "An extremely efficient three-component reaction of aldehydes/ketone, amines, and phosphates (Kabachnik-Fields reaction) for the synthesis of α -aminophosphonates catalysed by magnesium perchlorate," *J. Org. Chem.* **2007**, *72*, 1263-1270. **Cited 228 times. Listed under Top 20 Most-Cited Articles Published in the Last Three Years in the Journal of Organic Chemistry (ACS Citation Alert of Oct 6, 2009). IF: 4.785**
72. Gopal L. Khatik, Raj Kumar and Asit K. Chakraborti,* "Magnesium perchlorate as a novel and highly efficient catalyst for synthesis of 2,3-dihydro-1,5-benzothiazepine," *Synthesis* **2007**, 541-546. **Cited 27 times. IF: 2.652**
73. Shivani and Asit K. Chakraborti,* "Zinc Perchlorate Hexahydrate as a New and Highly Efficient Catalyst for Synthesis of 2-Hydroxysulfides by Opening of Epoxide Rings with Thiols under Solvent-free Conditions: Application for Synthesis of the Key Intermediate of Diltiazem," *J. Mol. Catal. A: Chem.* **2007**, *263*, 137-142. **Cited 28 times. IF: 3.958**
74. Gaurav Sharma, Raj Kumar and Asit K. Chakraborti,* "A Novel Environmentally Friendly Process for Carbon-Sulfur Bond Formation Catalyzed by Montmorillonite Clays," *J. Mol. Catal. A: Chem.* **2007**, *263*, 143-148. **Cited 43 times. IF: 3.958**
75. Hemlata Tamta, Sukriti Kalra, Ramasamy Thilagavathi, Asit K. Chakraborti and Anup K. Mukhopadhyay, "Nature and Position of the Functional Group on the Thiopurine Substrates Influence the Activity of Xanthine Oxidase- Enzymatic Reaction Pathway of 6-Mercaptopurine and 2-Mercaptopurine are Different," *Biochemistry (Moscow)* **2007**, *72*, 170-177. **Cited 4 times. IF: 1.421**
76. Gopal L. Khatik, Gaurav Sharma, Raj Kumar and Asit K. Chakraborti,* "Scope and Limitations of HClO₄-SiO₂ as an Extremely Efficient, Inexpensive, and Reusable Catalyst for Chemoselective Carbon-Sulfur Bond Formation," *Tetrahedron* **2007**, *63*, 1200-1210. **Cited 67 times. IF: 2.347**
77. Raj Kumar, Dinesh Kumar and Asit K. Chakraborti,* "Perchloric Acid Adsorbed on Silica-Gel (HClO₄-SiO₂) as an Inexpensive, Extremely Efficient, and Reusable Dual Catalyst System for Acetal/Ketal Formation and their Deprotection to Aldehydes/Ketones," *Synthesis* **2007**, 299-303. **Cited 37 times. IF: 2.652**
78. Srikant Bhagat, Ratnesh Sharma, Asit K. Chakraborti,* "Dual-activation protocol for tandem cross aldol condensation: an easy and highly efficient synthesis of α,α' -bis(arylmethylidene) ketones," *J. Mol. Catal. A: Chem.* **2006**, *260*, 235-240. **Cited 44 times. IF: 3.958**
79. Santosh Rudrawar, Ram C. Besra and Asit K. Chakraborti,* "Perchloric Acid Adsorbed on Silica Gel (HClO₄-SiO₂) as an Extremely Efficient and Reusable Catalyst for 1,3-Dithiolane/Dithiane Formation," *Synthesis* **2006**, 2767-2771. **Cited 40 times. IF: 2.652**

80. Sunay V. Chankeshwara and Asit K. Chakraborti,* “Indium(III) Halides as New and Highly Efficient Catalysts for *N*-*tert*-Butoxycarbonylation of Amines,” *Synthesis* **2006**, 2784-2788. **Cited 30 times. IF: 2.652**
81. Asit K. Chakraborti* and Shivani, “Magnesium bistrifluoromethanesulfonimide as a new and efficient acylation catalyst,” *J. Org. Chem.* **2006**, *71*, 5785-5788. **Cited 72 times. IF: 4.785**
82. Sunay V. Chankeshwara and Asit K. Chakraborti* , “Catalyst-free chemoselective *N*-*tert*-butyloxycarbonylation of amines in water,” *Org. Lett.* **2006**, *8*, 3259-3262. **Cited 129 times. IF: 6.732**
83. Asit K. Chakraborti* and Sunay V. Chankeshwara, “HClO₄-SiO₂ as a new, highly efficient, inexpensive and reusable catalyst for *N*-*tert*-butoxycarbonylation of amines,” *Org. Biomol. Chem.* **2006**, *4*, 2769-2771. **Cited 66 times. IF: 3.559**
84. Sunay V. Chankeshwara and Asit K. Chakraborti,* “Montmorillonite K 10 and Montmorillonite KSF as New and Reusable Catalysts for Conversion of Amines to *N*-*tert*-Butylcarbamates,” *J. Mol. Catal. A: Chem.* **2006**, *253*, 198-202. **Cited 56 times. IF: 3.958**
85. Gopal L. Khatik, Raj Kumar and Asit K. Chakraborti,* “Catalyst-free conjugated addition of thiols to α,β -unsaturated carbonyl compounds in water,” *Org. Lett.* **2006**, *8*, 2433-2436. **Cited 196 times. IF: 6.364**
86. Raj Kumar, Ramasamy Thilagavathi, Rajesh Gulhane and Asit K. Chakraborti,* “Zinc(II) perchlorate as a new and highly efficient catalyst for formation of aldehyde 1,1-diacetate at room temperature and under solvent-free conditions,” *J. Mol. Catal. A: Chem.* **2006**, *250*, 227-232. **Cited 22 times. IF: 3.958**
87. Navnath S. Gavande, Sonia Kundu, Naresh S. Badgujar, Gurmeet Kaur and Asit K. Chakraborti,* “Ph₂S₂-CaH₂ in *N*-methyl-2-pyrrolidone as an efficient protocol for chemoselective cleavage of aryl alkyl ethers,” *Tetrahedron* **2006**, *62*, 4201-4204. **Cited 9 times. IF: 2.645**
88. Sawraj Singh, Gurmeet Kaur, Asit K. Chakraborti, Rakesh K. Jain and Uttam C. Banerjee “Study of the experimental conditions for the lipase production by a newly isolated strain of *Pseudomonas aeruginosa* for the enantioselective hydrolysis of (\pm)-methyl *trans*-3(4-methoxyphenyl) glycidate,” *Bioprocess Biosyst Eng.* **2006**, *28*, 341-348. **Cited 7 times. IF: 1.901**
89. Sunay V. Chankeshwara and Asit K. Chakraborti,* “Copper(II) tetrafluoroborate as a novel and highly efficient catalyst for *N*-*tert*-butoxycarbonylation of amines under solvent-free conditions and at room temperatures,” *Tetrahedron Lett.* **2006**, *47*, 1087-1091. **Cited 56 times. IF: 2.347**
90. Srikant Bhagat, Ratnesh Sharma, Devesh M. Sawant, Lalima Sharma and Asit K. Chakraborti,* “LiOH·H₂O as a Novel Dual Activation Catalyst for Highly Efficient and Easy Synthesis of 1,3-Diaryl-2-propenones by Claisen-Schmidt Condensation under Mild Conditions,” *J. Mol. Catal. A: Chem.* **2006**, *244*, 20 – 24. **Cited 47 times. IF: 3.958**
91. Raj Kumar and Asit K. Chakraborti,* “Copper(II) tetrafluoroborate as a novel and highly efficient catalyst for acetal formation,” *Tetrahedron Lett.* **2005**, *46*, 8319-8323. **Cited 38 times. IF: 2.347**

92. Hemant Bhutani, Saranjit Singh, K. C. Jindal and Asit K Chakraborti, "Mechanistic Explanation to the Catalysis by Pyrazinamide and Ethambutol of Reaction Between Rifampicin and Isoniazid in anti-TB FDCs," *J. Pharm. Biomed. Anal.* **2005**, 39, 892-899. **Cited 31 times. IF: 3.169**
93. Santosh Rudrawar, Atul Kondaskar and Asit K Chakraborti,* "An Efficient Acid- and Metal-Free One-Pot Synthesis of Benzothiazoles from Carboxylic Acids," *Synthesis* **2005**, 2521-2526. **Cited 66 times. IF: 2.652**
94. Piyush Gupta, R Thilagavathi, Asit K Chakraborti and Arvind K Bansal, "Differential Molecular Interactions between Crystalline and Amorphous Phase of Celecoxib," *J. Pharm. Pharmacol.* **2005**, 57, 1271-1278. **Cited 7 times. IF: 2.363**
95. Ram C. Besra, Santosh Rudrawar and Asit K Chakraborti,* "Copper(II) tetrafluoroborate as extremely efficient catalyst for 1,3-dithiolane formation from carbonyl compounds under solvent-free conditions at room temperature," *Tetrahedron Lett.* **2005**, 46, 6213-6217. **Cited 30 times. IF: 2.347**
96. Piyush Gupta, R Thilagavathi, Asit K Chakraborti and Arvind K Bansal, "Role of Molecular Interaction in Stability of Celecoxib-PVP Amorphous Systems," *Molecular Pharmaceutics* **2005**, 2, 384-391. **Cited 74 times. IF: 4.342**
97. Ramasamy Thilagavathi and Asit K Chakraborti,* "Importance of Alignment in Developing 3-D QSAR Models of 1,5-Diaryl Pyrazoles for Prediction of COX-2 Inhibitory Activity," *Int. Elec. J. Mol. Des.* **2005**, 4, 603-612.
98. Hemlata Tamta, Ramasamy Thilagavathi, Asit K Chakraborti* and Anup K. Mukhopadhyay,* "6-(*N*-Benzoylamino)purine as a novel and potent inhibitor of xanthine oxidase: Inhibition mechanism and molecular modeling studies," *J. Enzyme Inhibit. Med. Chem.* **2005**, 20, 317-324. **Cited 14 times. IF: 2.332**
99. Pankaj Soni, Gurmeet Kaur, Asit K. Chakraborti and Uttam C. Banerjee, "*Candida viswanathii* as a novel biocatalyst for stereoselective reduction of heteroaryl methyl ketones: a highly efficient enantioselective synthesis of (*S*)- α -(3-pyridyl)ethanol," *Tetrahedron Asymmetry* **2005**, 16, 2425-2428. **Cited 22 times. IF: 2.108**
100. Sanjeev K. Garg, Raj Kumar and Asit K Chakraborti,* "Zinc Perchlorate Hexahydrate catalysed Conjugate Addition of Thiols to α,β -Unsaturated Ketones," *Synlett* **2005**, 1370-1374. **Cited 61 times. IF: 2.323**
101. Raj Kumar, C. Selvam, Gurmeet Kaur and Asit K. Chakraborti,* "Microwave-Assisted Direct Synthesis of 2-Substituted Benzoxazoles from Carboxylic Acids under Catalyst and Solvent Free Conditions." *Synlett* **2005**, 1401-1404. **Cited 42 times. IF: 2.323**
102. C. Selvam, Sanjay M. Jachak, Ramasamy Thilagavathi and Asit K. Chakraborti, "Design, synthesis, biological evaluation and molecular docking of curcumin analogues as antioxidant, cyclooxygenase inhibitory and anti-inflammatory agents," *Bioorg. Med. Chem. Lett.* **2005**, 15, 1793-1797. **Cited 182 times. IF: 2.486**
103. Sanjeev K. Garg, Raj Kumar and Asit K Chakraborti,* "Copper(II) Tetrafluoroborate as a Novel and Highly Efficient Catalyst for Michael Addition of Mercaptans to α,β -Unsaturated Carbonyl Compounds," *Tetrahedron Lett.* **2005**, 46, 1721-1724. **Cited 98 times. IF: 2.347**

104. Ramasamy Thilagavathi, Raj Kumar, Vema Aparna, M. Elizabeth Sobhia, Bulusu Gopalakrishnan and Asit K Chakraborti,* “Three-Dimensional Quantitative Structure Activity Relationship Studies on Imidazolyl and *N*-Pyrrolyl Heptenoates as 3-Hydroxy-3-methylglutaryl-CoA Reductase (HMGR) Inhibitors by Comparative Molecular Similarity Indices Analysis,” *Bioorg. Med. Chem. Lett.* **2005**, *15*, 1027-1032. **Cited 9 times. IF: 2.486**
105. Chittur V. Srikanth, Asit K Chakraborti and Anand K. Bachhawat, “Acetaminophen toxicity and resistance in the yeast *Saccharomyces cerevisiae*,” *Microbiol.* **2005**, *151*, 99-111. **Cited 6 times. IF: 2.957**
106. Asit K. Chakraborti,* Srikant Bhagat and Santosh Rudrawar, “Magnesium perchlorate as an efficient catalyst for synthesis of imines and phenylhydrazones,” *Tetrahedron Lett.* **2004**, *45*, 7641-7644. **Cited 94 times. IF: 2.347**
107. Asit K. Chakraborti,* Atul Kondaskar and Santosh Rudrawar, “Scope and Limitations of Montmorillonite K-10 Catalysed Opening of Epoxide Rings by Amines,” *Tetrahedron* **2004**, *60*, 9085-9091. **Cited 96 times. IF: 2.645**
108. Asit K. Chakraborti,* Santosh Rudrawar and Atul Kondaskar, “Lithium Bromide as an Inexpensive and Efficient Catalyst for Opening of Epoxide Rings by Amines at Room Temperature under Solvent-free Condition,” *Eur. J. Org. Chem.* **2004**, 3597-3600. **Cited 81 times. IF: 3.068**
109. Asit K. Chakraborti,* Santosh Rudrawar, Lalima Sharma and Gurmeet Kaur, “An Efficient Conversion of Phenolic Esters to Benzothiazoles under Mild and Virtually Neutral Conditions,” *Synlett* **2004**, 1533-1536. **Cited 53 times. IF: 2.323**
110. A. Dunge, Asit K. Chakraborti and Saranjit Singh, “Mechanistic explanation to the variable degradation behaviour of stavudine and zidovudine under hydrolytic, oxidative and photolytic conditions,” *J. Pharm. Biomed. Anal.* **2004**, *35*, 965-970. **Cited 17 times. IF: 3.169**
111. C. Selvam, Sanjay M. Jachak, R. Gnana Oli, Ramasamy Thilagavathi, Asit K. Chakraborti and K. K. Bhutani, “A New Cyclooxygenase (COX) Inhibitory Pterocarpan from *Indigofera aspalathoides*: Structure Elucidation and Determination of Binding Orientation in the Active Sites of the Enzyme by Molecular Docking,” *Tetrahedron Lett.* **2004**, *45*, 4311- 4314. **Cited 31 times. IF: 2.347**
112. Asit K. Chakraborti,* Santosh Rudrawar and Atul Kondaskar, “An Efficient Synthesis of 2-Amino Alcohols by Silica Gel Catalysed Opening of Epoxide Rings by Amines,” *Org. Biomol. Chem.* **2004**, *2*, 1277-1280. **Cited 87 times. IF: 3.559**
113. Asit K. Chakraborti* Ramasamy Thilagavathi and Raj Kumar, “Copper Tetrafluoroborate-Catalysed Formation of Aldehyde-1,1-diacetates,” *Synthesis* **2004**, 831-833. **Cited 47 times. IF: 2.652**
114. Asit K. Chakraborti,* C. Selvam, Gurmeet Kaur and Srikant Bhagat, “An Efficient Synthesis of Benzothiazoles by Direct Condensation of Carboxylic Acids with 2-Aminothiophenol under Microwave Irradiation,” *Synlett* **2004**, 851-855. **Cited 76 times. IF: 2.323**
115. Asit K. Chakraborti* and Rajesh Gulhane, “Zirconium (IV) Chloride as a New, Highly Efficient, and Reusable Catalyst for Acylation of Phenols, Thiols, Amines,

- and Alcohols under solvent Free Conditions,” *Synlett* **2004**, 627-630. **Cited 75 times. IF: 2.323**
116. Rohit Sharma, Jitesh P. Iyer, Asit K. Chakraborti and U. C. Banerjee, “Determination of Gibberellins in Fermentation Broth Produced by *Fusarium verticillioides* MTCC 156 by High-performance Liquid Chromatography Tandem Massspectrometry,” *Biotech. Appl. Biochem.* **2004**, 39, 83-88. **Cited 6 times. IF: 1.606**
117. Asit K. Chakraborti,* Rajesh Gulhane and Shivani, “Copper(II) Tetrafluoroborate Catalysed Acylation of Phenols, Thiols, Alcohols, and Amines,” *Synthesis* **2004**, 111-115. **Cited 46 times. IF: 2.652**
118. Asit K Chakraborti* and Ramasamy Thilagavathi, “Computer-Aided Design of Selective COX-2 Inhibitors: Molecular Docking of Structurally Diverse Cyclooxygenase-2 Inhibitors using FlexX Method,” *Int. Elec. J. Mol. Des.* **2004**, 3, 704-719.
119. Asit K. Chakraborti* and Atul Kondaskar, “ZrCl₄ as a New and Efficient Catalyst for Opening of Epoxide Ring by Amines,” *Tetrahedron Lett.* **2003**, 44, 8315-8319. **Cited 157 times. IF: 2.347**
120. Asit K. Chakraborti,* B. Gopalakrishnan, M. Elizabeth Sobhia and Alpeshkumar Malde, “3D-QSAR Studies of Indole derivatives as Phosphodiesterase IV Inhibitors,” *Eur. J. Med. Chem.* **2003**, 38, 975-982. **Cited 27 times. IF: 3.902**
121. Garima Chawla, Piysuh Gupta, R Thilagavathi, Asit K. Chakraborti and Arvind K Bansal, “Characterization of Solid-state Forms of Celecoxib,” *Eur. J. Pharm. Sci.* **2003**, 20, 305-317. **Cited 93 times. IF: 3.773**
122. Asit K. Chakraborti,* Rajesh Gulhane and Shivani, “Bismuth Oxide Perchlorate as a Highly Efficient Catalyst for Heteroatom Acylation under Solvent-Free Conditions,” *Synlett* **2003**, 1805-1808. **Cited 60 times. IF: 2.323**
123. Asit K. Chakraborti,* Lalima Sharma, Rajesh Gulhane and Shivani, “Electrostatic Catalysis by Ionic Aggregates: Scope and Limitations of Mg(ClO₄)₂ as Acylation Catalyst,” *Tetrahedron* **2003**, 59, 7661-7668. **Cited 106 times. IF: 2.645**
124. Asit K. Chakraborti* and R. Thilagavathi, “Computer-aided Design of Non Sulphonyl COX-2 Inhibitors: An Improved Comparative Molecular Field Analysis Incorporating Additional Descriptors and Comparative Molecular Similarity Indices Analysis of 1,3-Diarylisindole Derivatives,” *Bioorg. Med. Chem.* **2003**, 11, 3989-3996. **Cited 16 times. IF: 2.923**
125. Asit K. Chakraborti* and Rajesh Gulhane, “Indium(III) Chloride as a New, Highly Efficient, and Versatile Catalyst for Acylation of Phenols, Thiols, Alcohols, and Amines,” *Tetrahedron Lett.* **2003**, 44, 6749-6753. **Cited 116 times. IF: 2.347**
126. Asit K. Chakraborti* and Rajesh Gulhane, “Perchloric Acid Adsorbed on Silica Gel as New, Highly Efficient, and Versatile Catalyst for Acetylation of Phenols, Thiols, Alcohols, and Amines,” *J. Chem. Soc. Chem. Commun.* **2003**, 1896-1897. **Cited 221 times. IF: 6.567**
127. Asit K. Chakraborti,* B. Gopalakrishnan, M. Elizabeth Sobhia and Alpeshkumar Malde, “Comparative Molecular Field Analysis (CoMFA) of Phthalazine Derivatives

- as Phosphodiesterase IV Inhibitors,” *Bioorg. Med. Chem. Lett.* **2003**, *13*, 2473-2479. **Cited 34 times. IF: 2.486**
128. Asit K. Chakraborti* and Rajesh Gulhane, “Fluoroboric Acid Adsorbed on Silica Gel as a New and Efficient Catalyst for Acylation of Phenols, Thiols, Alcohols and Amines,” *Tetrahedron Lett.* **2003**, *44*, 3521-3525. **Cited 122 times. IF: 2.347**
129. Asit K. Chakraborti*, B. Gopalakrishnan, M. Elizabeth Sobhia and Alpeshkumar Malde, “3D-QSAR Studies on Thieno[3,2-*d*]pyrimidines as Phosphodiesterase IV Inhibitors,” *Bioorg. Med. Chem. Lett.* **2003**, *13*, 1403-1408. **Cited 37 times. IF: 2.486**
130. Tina Ojha, Monika Bakshi, Asit K. Chakraborti and Saranjit Singh, “The ICH guidance in practice: stress decomposition studies on three piperazinyl quinazoline adrenergic receptor-blocking agents and comparison of their degradation behaviour,” *J. Pharm. Biomed. Anal.* **2003**, *31*, 775-783. **Cited 14 times. IF: 3.169**
131. Asit K. Chakraborti*, Lalima Sharma and Mrinal K. Nayak, “Demand-Based Thiolate Anion Generation under Virtually Neutral Conditions: The Influence of Steric and Electronic Factors on Chemo- and Regio-selective Cleavage of Aryl Alkyl Ethers,” *J. Org. Chem.* **2002**, *67*, 6406-6414. **Cited 54 times. IF: 4.785**
132. Asit K. Chakraborti*, Lalima Sharma and Mrinal K. Nayak, “The influence of Hydrogen Bonding in Activation of Nucleophile: PhSH – (Catalytic) KF in NMP as an Efficient Protocol for Selective Cleavage of Alkyl/Aryl Esters and Aryl Alkyl Ethers under Nonhydrolytic and Neutral Conditions,” *J. Org. Chem.* **2002**, *67*, 2541-2547. **Cited 56 times. IF: 4.785**
133. Asit K. Chakraborti*, Mrinal K. Nayak and Lalima Sharma, “Diphenyl Disulfide and Sodium in NMP as an Efficient Protocol for in Situ Generation of Thiophenolate Anion: Selective Deprotection of Aryl Alkyl Ethers and Alkyl/Aryl Esters under Nonhydrolytic Conditions,” *J. Org. Chem.* **2002**, *67*, 1776-1780. **Cited 46 times. IF: 4.785**
134. Saranjit Singh, Sanjeev Kumar, Nishi Sharda and Asit K. Chakraborti, “New Findings on Degradation of Famotidine under Basic Conditions: Identification of a Hitherto Unknown Degradation Product and the Condition for Obtaining the Propionamide Intermediate in Pure Form,” *J. Pharma. Sci.* **2002**, *91*, 253-257. **Cited 13 times. IF: 2.590**
135. Asit K. Chakraborti*, Lalima Sharma and Upasana Sharma, “A Mild and Chemoselective Method for Deprotection of Aryl Acetates and Benzoates Under Non-hydrolytic Condition,” *Tetrahedron* **2001**, *57*, 9343-9346. **Cited 29 times. IF: 2.645**
136. Asit K. Chakraborti*, Gurmeet Kaur and Susmita Roy (née Bhattacharya), “A Simple and Highly Efficient One-Pot Chemoselective Synthesis of Nitriles from Aldehydes: Mechanistic Insight and Selectivity Control through Modulation of Electronic and Steric Factors,” *Indian. J. Chem.* **2001**, *40B*, 1000-1006. **Cited 8 times. IF: 0.471**
137. Bharat Bhusan, Sudip K. Samanta, Ashvini Chauhan, Asit K. Chakraborti and Rakesh K. Jain, “Chemotaxis and Biodegradation of 3-Methyl-4-nitrophenol by *Ralstonia* sp. SJ98,” *Biochem. Biophys. Res. Commun.* **2000**, *275*, 129-133. **Cited 59 times. IF: 2.371**

138. Ashvini Chauhan, Asit K. Chakraborti and Rakesh K. Jain, "Plasmid-encoded Degradation of *p*-Nitrophenol and 4-Nitrocatechol by *Arthrobacter Protosphormiae*," *Biochem. Biophys. Res. Commun.* **2000**, 270, 733-740. **Cited 65 times. IF: 2.371**
139. Saranjit Singh, T. T. Mariappan, Nishi Sharda, Sanjeev Kumar and Asit K. Chakraborti, "The Reason for an Increase in Decomposition of Rifampicin in the Presence of Isoniazid under Acid Conditions," *Pharm. Pharmacol. Commun.* **2000**, 6, 405-410. **Cited 62 times. IF: 2.363** (*J. Pharm. Pharmacol.*)
140. Sudip K. Samanta, Asit K. Chakraborti and Rakesh K. Jain, "Degradation of Phenanthrene by Different Bacteria: Evidence for Novel Transformation Sequences Involving the Formation of 1-Naphthol," *Appl. Microbiol. Biotech.* **1999**, 53, 98-107. **Cited 140 times. IF: 3.376**
141. Asit K. Chakraborti* and Gurmeet Kaur, "One-Pot Synthesis of Nitriles from Aldehydes Under Microwave Irradiation: Influence of the Medium and Mode of Microwave Irradiation on Product Formation," *Tetrahedron*, **1999**, 55, 13265-13268. **Cited 35 times. IF: 2.645**
142. Asit K. Chakraborti*, Anindita Basak (née Nandi) and Vikas Grover, "Chemoselective Protection of Carboxylic Acid as Methyl Ester: A Practical Alternative to Diazomethane Protocol," *J. Org. Chem.* **1999**, 64, 8014-8017. **Cited 87 times. IF: 4.785**
143. Asit K. Chakraborti*, Mrinal K. Nayak and Lalima Sharma, "Selective Deprotection of Aryl Acetates, Benzoates, Pivalates and Tosylates Under Non-Hydrolytic and Virtually Neutral Condition," *J. Org. Chem.* **1999**, 64, 8027-8030. **Cited 44 times. IF: 4.785**
144. Lalima Sharma, Mrinal K. Nayak and Asit K. Chakraborti* "A Mild and Chemoselective Method for Ester *O*-Alkyl Cleavage Using *in situ* Generated Potassium Thiophenoxide from Catalytic Quantities of Base," *Tetrahedron* **1999**, 55, 9595-9600. **Cited 19 times. IF: 2.645**
145. Mrinal K. Nayak and Asit K. Chakraborti*, "PhSH-(Catalytic) KF as an Efficient Protocol for Chemoselective Ester *O*-Alkyl Cleavage Under Non-hydrolytic Condition," *Chemistry Lett.* **1998**, 297-298. **Cited 27 times. IF: 1.550**
146. Susmita Roy (née Bhattacharya) and Asit K. Chakraborti*, "An Efficient Synthesis of *anti*-(1*R*)-(+)-Camphorquinone-3-oxime," *Tetrahedron Letters*, **1998**, 39, 6355-6356. **Cited 9 times. IF: 2.347**
147. Anindita Basak (née Nandi), Mrinal K. Nayak and Asit K. Chakraborti*, "Chemoselective *O*-Methylation of Phenols under Non-aqueous Condition," *Tetrahedron Lett.* **1998**, 39, 4883-4886. **Cited 53 times. IF: 2.347**
148. Mrinal K. Nayak and Asit K. Chakraborti*, "Chemoselective Aryl Alkyl Ether Cleavage by Thiophenolate Anion Through its *In Situ* Generation in Catalytic Amount," *Tetrahedron Lett.* **1997**, 38, 8749-8752. **Cited 52 times. IF: 2.347**
149. Mark Cushman, Dhanapalan Nagarathnam, D. Gopal, Asit K. Chakraborti, Chii M. Lin and Ernest Hamel, "Synthesis and Evaluation of Stilbene and Dihydrostilbene Derivatives as Potential Anti-Cancer Agents that Inhibit Tubulin Polymerisation," *J. Med. Chem.* **1991**, 34, 2579-2588. **Cited 265 times. IF: 5.589**

150. Mark Cushman, Pennamuthiriar Chinnasamy, Asit K. Chakraborti, J. Jurayj, Robert L. Geahlen and Rudiger D. Haugwitz, "Synthesis of [β -(4-Pyridyl-1-oxide)-L-alanine]-angiotensin I as a Potential Suicide Substrate for Proteintyrosine Kinases," *Int. J. Pept. Protein Res.* **1990**, *36*, 538-543. **Cited 11 times. IF: 2.802** (*Chem. Biol. Drug Des.*)
151. Asit K. Chakraborti, Bijali Saha, Chhanda Ray and Usha Ranjan Ghatak, "Alkali Metal-Liquid Ammonia Reduction of γ -Lactones to Diols and Cyclic Hemiacetals: Stereochemical Influence by the Neighbouring Group on the Nature of the Products," *Tetrahedron* **1987**, *43*, 4433-4437. **IF: 2.645**
152. Asit K. Chakraborti and Usha Ranjan Ghatak, "Stereocontrolled Total Synthesis of (+) 9,10-Secoabieta-8,11,13-trien-18,10-olide: A Minor Component of Distilled Tall Oil," *Indian. J. Chem.* **1987**, *26B*, 295-296. **IF: 0.471**
153. Bimal K. Banik, Asit K. Chakraborti and Usha Ranjan Ghatak, "An Efficient Synthesis of 2-Substituted-3,3-Dimethylcyclohexan-1-ones. A Simple Synthetic Route to Podocarpa-8,11,13-triene Intermediates," *J. Chem. Res. (S)*. **1986**, 406-407. **IF: 1.085**
154. Asit K. Chakraborti, Shaikh Khairul Alam, Prabir C. Chakraborti, Rupak Dasgupta, Jyotirmoy Chakravarty, Usha Ranjan Ghatak, Apurba Kabiraj and Sundar Gopal Biswas, "Condensed Cyclic and Bridged-Ring Systems. Part 13. Synthesis of the Insect Attractant Hydrocarbon 9a-Carba-morphinan and X-Ray Structural Analyses of 9a-Carbamorphinan-10-one and 9a-Carba-14 α -morphinan-10-one," *J. Chem. Soc., Perkin Trans. 1* **1986**, 1243-1248. **IF: 3.559** (*Org. Biomol. Chem.*)
155. Asit K. Chakraborti and Usha Ranjan Ghatak, "A Highly Effective Ligand-Bound Ruthenium Catalyst for the Chemoselective Degradation of Aromatic Rings to Carboxylic Acids," *J. Chem. Soc., Perkin Trans 1* **1985**, 2605-2609. **Cited 5 times. IF: 3.559** (*Org. Biomol. Chem.*)
156. Asit K. Chakraborti, Jayanta K. Ray, Kalyan K. Kundu, Sephali Chakraborti, Debabrata Mukherjee and Usha Ranjan Ghatak, "Regioselectivity in the Intramolecular Carbon- Hydrogen Insertion in the Decomposition of some *cis*-1-Methyl-3-arylcyclohexyl Diazomethyl Ketones: A Highly Efficient Homogeneous Nickel Catalyst for Carbenoid Insertion," *J. Chem. Soc., Perkin Trans. 1* **1984**, 261-273. **Cited 6 times. IF: 3.559** (*Org. Biomol. Chem.*)
157. Asit K. Chakraborti, Bimal K. Banik and Usha Ranjan Ghatak, "A Novel Oxidation Catalyst Derived from a Ruthenium (II)-2,2-Bipyridine Complex for Chemoselective Degradation of Aromatic Rings to Carboxylic Acid," *Indian J. Chem.* **1984**, *23B*, 291-292. **IF: 0.471**
158. Asit K. Chakraborti and Usha Ranjan Ghatak, "Extension of an Improved Procedure for the Ruthenium Tetroxide-Catalysed Degradation of Aromatic Rings: A Highly Efficient and Stereo-controlled Synthesis of Functionalised Bridged-Ring and Carbocyclic Esters," *Synthesis* **1983**, 746-748. **IF: 2.652**
159. Asit K. Chakraborti, Bijali Saha and Usha Ranjan Ghatak, "A Highly Efficient Homogenous Nickel Catalyst for Intramolecular α -Ketocarbenoid Addition to Double Bond," *Indian J. Chem.* **1981**, *20B*, 911-912. **IF: 0.471**

Review Articles: 4

1. Asit K. Chakraborti,* Sanjeev K. Garg, Raj Kumar, Hashim F. Motiwala, Pradeep S. Jadhavar, "Progress in COX-2 Inhibitors: A Journey So Far," *Curr. Med. Chem.* **2010**, *17*, 1563-1593. **Cited 70 times. IF: 3.455**
2. Pradeep S. Jadhavar, Moulikkumar D. Vaja, Tejas M. Dhameliya, Asit K. Chakraborti,* "Oxazolidinones as Anti-tubercular Agents: Discovery, Development and Future Perspectives," *Curr. Med. Chem.* **2015**, *22*, 4379-4397. **IF: 3.455**
3. Naisargee Parikh and Asit K. Chakraborti,* "Phosphodiesterase 4 (PDE4) inhibitors in the treatment of COPD: Promising drug candidates and future directions," *Curr. Med. Chem.* **2016**, *23*, 129-141. **Cited 2 times. IF: 3.455**
4. Kapileswar Seth, Priyank Purohit and Asit K. Chakraborti,* "Microwave-Assisted Synthesis of Biorelevant Benzazoles," *Curr. Med. Chem.* **2016**, Doi: 10.2174/092986732366616161025142005. **IF: 3.455**

Book Chapters: 2

1. Pradeep S. Jadhavar, Dinesh Kumar, Priyank Purohit, Bhavin V. Pipaliya, Asim Kumar, Srikant Bhagat, and Asit K. Chakraborti,* "Sustainable Approaches towards the Synthesis of Quinoxalines," in *Green Chemistry: Synthesis of Bioactive Heterocycles*, K. L. Ameta, A. Dandia (eds.), Ch 2. **2014**, ISBN 978-81-322-1849-4, Springer.
2. Asit K. Chakraborti* and Sunay V. Chankeshwara, *Magnesium Perchlorate*. In *Encyclopaedia of Reagents for Organic Synthesis [Online (eEROS)]*. L. A. Paquette Ed. John Wiley & Sons Ltd., (2008), (**Invited contribution**; Unique ID RN1002).

Articles (not abstracts) Published in Seminars, Symposia, Conference Volumes: 10

1. Asit K. Chakraborti,* "Mass spectrometry in supramolecular assemblies of small molecules in understanding organo-catalysis by ionic liquids," *18th ISMAS Symposium cum Workshop on Mass Spectrometry*, Timber Trail Heights, Parwanoo, HP, India, Mar. 9 – 13, **2014**. Invited Talk No. IT-24. Page 97-102.
2. Asit K. Chakraborti,* "Non-heme model of dioxygen activation in aqueous medium: Mass spectrometric methods to identify the catalytic species and understanding the rational of catalysis," *14th ISMAS Symposium cum Workshop on Mass Spectrometry*, Tea County, Munnar, Kerala, India, Nov. 7 – 11, **2011**. Invited Talk No. IT-16. Page 81-88.
3. Asit K. Chakraborti,* "Role of mass spectrometry in conceptual advancement towards sustainable development in pharmaceutical research," *11th ISMAS Triennial International Conference on Mass Spectrometry*, Ramoji Film City, Hyderabad, AP, India, Nov. 24 – 28, **2009**. Award Winning Lecture No. AL-1. Page 3-11.
4. Asit K. Chakraborti* and S. V. Chankeshwara, "Mass spectrometry in pharmaceutical research," *13th ISMAS Symposium cum Workshop on Mass Spectrometry*, BARC, Mumbai, India, Jan. 27 – 31, **2008**. Invited Talk No. IT-4. Page 11-16.
5. Asit K. Chakraborti* and Anirban Sarkar, "Mass spectrometry identification of ionic liquids," *12th ISMAS Symposium cum Workshop on Mass Spectrometry*, Cedade-de-Goa, Dona Paola, Goa, India, Mar. 25 – 30, **2007**. Invited Talk No. IT 3 (Proceedings on CD).

6. Sunay V. Chankeshwara, Santosh Rudrawar and Asit K. Chakraborti,* “Investigation of the Ambiphilic Dual Activation Role of Water in Catalysing Organic Reactions: Electro Spray Ion Mass Spectrometry,” *12th ISMAS Symposium cum Workshop on Mass Spectrometry*, Cedade-de-Goa, Dona Paola, Goa, India, Mar. 25 – 30, **2007**. Innovative Research Scholar Presentation No IRP-2 (Proceedings on CD).
7. Asit K. Chakraborti,* “Application of mass spectrometric in combinatorial synthesis of chalcone and stilbene libraries,” *11th ISMAS Workshop on Mass Spectrometry*, Shimla, India, Oct. 7 – 12, **2004**. Invited Talk No. IT-4. Page 41-50.
8. Santosh. Rudrawar, Kirtikumar B. Jadhav, Gurmeet Kaur, Asit K. Chakraborti,* “Application of Mass Spectrometric Techniques for Characterization and Quantification of Solution and Solid Phase Combinatorial 2-Aryl Benzothiazole Libraries,” *11th ISMAS Workshop on Mass Spectrometry*, Shimla, India, Oct. 7 – 12, **2004**. Paper No. RS-16. Page 316-318.
9. Asha Rani, Gurmeet Kaur, Asit K. Chakraborti,* S. Majumdar, N. K. Ganguly, Anuradha Chakraborti, “Use of Mass Spectrometric Analysis in Establishing Siderophore Mediated Iron Acquisition in Group A Streptococcus (GAS),” *11th ISMAS Workshop on Mass Spectrometry*, Shimla, India, Oct. 7 – 12. Paper No. RS-20, **2004**. Page 338-341.
10. Asit K. Chakraborti,* Gurmeet Kaur, Smriti Khanna, Harshvardhan Jain, “Solution and Solid Phase Combinatorial Synthesis of Chalcone Libraries: Application of APCIMS and LCMS in Identification of the Constituents,” *ISMAS Silver Jubilee Symposium on Mass Spectrometry*, National Institute of Oceanography, Goa, India. Jan 27-31, **2003**. Invited Talk: Contributed Papers, *Vol II*, 912-916