

## APPENDIX A

### LIST OF PUBLICATIONS

1. “*Synthesis of some novel class of peptides from  $\alpha$ -amino nitrones and their potential biological activities*”

Bhaskar Chakraborty, Amalesh Samanta, Govinda Prasad Luitel, **Neelam Rai**, Debmalya Mitra, *Journal of Heterocyclic Chemistry (Wiley), New York, USA, 2016*, 53, 1222-1230. Impact Factor: 1.220 ; ISSN : 1943-5193; UGC approval list of journal Sr.No: 20872.

2. “*Solvent free one pot 1,3-dipolar cycloaddition reactions of dihydropyran derived nitrone*”

Bhaskar Chakraborty\*, Prawin Kumar Sharma, **Neelam Rai** & Chiran Devi Sharma, *Journal of Chemical Sciences (Springer), USA, 2012*, 124 (3), 679-685. Impact Factor: 1.126 ; ISSN : 0973-7103; UGC approval journal Sr.No: 19615.

3. “*Green synthesis of novel isoxazoline derivatives using N-phenyl- $\alpha$ -amino nitrone under microwave irradiation*”

Bhaskar Chakraborty\* & **Neelam Rai**, *Journal of Indian Chemical Society (ICS, Kolkata), 2012*, 89 (5), 671- 674. Impact Factor: 0.410 ; ISSN: 0975-0983; UGC approved journal Sr.No: 230.

4. “*Green synthesis of isoxazolidines: One pot facile cycloaddition reactions of novel N-phenyl- $\alpha$ -amino nitrone in water*”

Bhaskar Chakraborty\* & **Neelam Rai**, *Asian Journal of Research in Chemistry, 2011*, 4 (2), 289-292. Impact Factor: 0.342 ; ISSN: 0974-4150; UGC approved journal Sr.No: 4008.

5. “ *$\alpha$ -N-methyl/phenyl furan derivatives as dipolarophiles for the synthesis of novel spiro isoxazolidine derivatives using  $\alpha$ -chloro and simple nitrones*”

Bhaskar Chakraborty\*, Prawin Kumar Sharma, **Neelam Rai**, Saurav Kafley & Manjit Singh Chhetri, *Journal of Chemical Research (RSC), UK, 2010*, 34 (3), 147-150. Impact Factor: 0.600; ISSN: 1747-5198; UGC approved journal Sr.No: 19612.

6. “*Green synthesis of nitrone and isoxazolidines: A convenient method of synthesis in water*”,

Bhaskar Chakraborty,\* **Neelam Rai**, Manjit Singh Chhetri & Prawin Kumar Sharma, *Asian Journal of Research in Chemistry, 2011*, 4 (2), 191-194. Impact Factor: 0.342 ; ISSN: 0974-4150; UGC approved journal Sr.No: 4008.

7. “*Synthetic potentiality of  $\alpha$ -amino nitrones as oxidizing reagent in the conversion of alkyl halides to aldehydes*”

Bhaskar Chakraborty\*, **Neelam Rai**, Manjit Singh Chhetri, Saurav Kafley, Prawin Sharma. *Journal of the Indian Chemical Society, 2010*, 87, 1399-1402. Impact Factor: 0.410 ; ISSN: 0019-4522; UGC approved journal Sr.No: 230.

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8. “*One pot facile stereo and regioselective synthesis of spiro isoxazolidine derivatives using  $\gamma$ -butyrolactone and novel  $\alpha$ -methyl/phenyl furan derivatives with  $\alpha$ -amino nitrones and their antibacterial activity*”

Bhaskar Chakraborty,\* **Neelam Rai** & Manjit Singh Chettri, *Rasayan Journal of Chemistry*, **2010**, 3 (1),110-116. Impact Factor: 0.354 ; ISSN: 0974-1496; UGC approved journal Sr.No: 272.

## APPENDIX B

### SEMINARS & CONFERENCES

1. Presented “*Poster*” entitled “*Green protocol for the synthesis of  $\alpha$ -amino nitrone and isoxazolidine derivatives*” by the authors : Bhaskar Chakraborty\*, **Neelam Rai**, Prawin Kumar Sharma & Manjit Singh Chhetri at the **100<sup>th</sup> Indian Science Congress** held at Calcutta University, Kolkata, West Bengal from 3<sup>rd</sup> January – 7<sup>th</sup> January, **2013**.
2. Presented “*Poster*” entitled “*Synthetic potentiality of  $\alpha$ -amino nitrones in the synthesis of novel class of peptides*” by the authors : Bhaskar Chakraborty\*, **Neelam Rai**, Prawin Kumar Sharma & Manjit Singh Chhetri at the **99<sup>th</sup> Indian Science Congress** held at KIIT University, Bhubaneswar, Odissa from 3<sup>rd</sup> January – 7<sup>th</sup> January, **2012**.
3. Presented “*Poster*” entitled “*Synthesis of some novel isoxazoline derivatives using N-Phenyl- $\alpha$ -amino nitrone under microwavr irradiation via cycloaddition reaction and their antibacterial activities*” by the authors : Bhaskar Chakraborty\*, **Neelam Rai**, Prawin Kumar Sharma & Manjit Singh Chhetri at the **98<sup>th</sup> Indian Science Congress** held at SRM University, Chennai, Tamilnadu from 3<sup>rd</sup> January – 7<sup>th</sup> January, **2011**.
4. Presented “*Poster*” entitled “*Green synthesis of novel  $\alpha$ -amino nitrone and isoxazolidines : one pot convenient cycloaddition reactions in water*” by the authors: Bhaskar Chakraborty\*, Prawin Kumar Sharma & **Neelam Rai**, at the **14<sup>th</sup> CRSI Conference** held at University of North Bengal, Siliguri, West Bengal 3<sup>rd</sup> July – 4<sup>h</sup> July, **2011**.
5. As a member of the organizing committee, has taken part actively in the “**Science Academie’s Lecture Workshop**” at *Sikkim Government College*, Tadong, Gangtok, Sikkim sponsored by *Indian Academy of Sciences, Bangalore, National Academy of Science, Allahabad and Indian National Science Academy, New Delhi* from 12<sup>th</sup> April – 13<sup>th</sup> April **2013**.