Appendix I

List of Publications
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A. Patent filed:

1) “A versatile method for oxidation of carbinols to carbonyls using hydrogen peroxide under triphase catalytic conditions”
DEL. No.: 0645/DEL/2007, Dated 10/03/08
Amrit Goswami, Nishi Bhati and Kuladip Sarma

2) “A novel method of inducing chirality to epoxides using 2,3:4,6-di-O-isopropylidene-2-keto-L-gulonic acid monohydrate in lipase catalysed epoxidation of olefins with hydrogen peroxide”
DEL. No.: 2696/DEL/2008, Dated 17/09/08
Amrit Goswami, Kuladip Sarma and Ajit Kumar Hazarika

B. Papers published/communicated:

1) “A novel method for the synthesis of chiral epoxides from styrene derivatives using chiral acids in presence of Pseudomonas lipase G6 [PSL G6] and hydrogen peroxide”,
Kuladip Sarma, Nishi Bhati, Naleen Borthakur and Amrit Goswami

2) “A rapid 1,2-dihydroxylation of alkenes using a lipase and hydrogen peroxide under microwave conditions”,
Kuladip Sarma, Naleen Borthakur and Amrit Goswami

Kuladip Sarma, Amrit Goswami* and Bhabesh C. Goswami

4) “Tetrapropylammonium perruthenate (Spotlight)”,
Synlett, 2007, 5, 824-825
Kuladip Sarma*

5) “Expedient Method for Oxidation of Alcohol by Hydrogen Peroxide in Presence of Amberlite IRA 400 Resin (basic) as Phase-Transfer Catalyst”,
Synthetic Communications, 2008, 38, 1416-1424.
Nishi Bhati, Kuladip Sarma and Amrit Goswami*
6) “Alcohol Oxidation in Ionic Liquid with UHP and Recyclable Amberlite ER-120 Acidic Resin: A Green Approach”,

*Chemistry Letters, 2008, 37, 496-497.*

Nishi-Bhati, **Kuladip Sarma** and Amrit Goswami*

7) “An efficient method for one-pot reductive cleavage of acetics to primary alcohols using a bimetal redox couple CoCl$_2$.6H$_2$O–Zn

*Letters in Organic Chemistry, 2009* (Communicated)

**Kuladip Sarma** and Amrit Goswami*

8) “Nucleophilic α-methylation of aromatic terminal olefins with dry Methanol in presence of KHSO$_4$ embedded on silica surface”

(Manuscript under preparation)

Amrit Goswami*, Ram Nath Das and **Kuladip Sarma**

C. **Seminar attended and paper presented:**

1) “Microwave assisted dihydroxylation of olefins”

Paper presented at “9th CRSI National Symposium”, February 1-4, 2007 held in Delhi University, Delhi, India.

**Kuladip Sarma**, Nishi Bhati and Amrit Goswami

2) “Conversion of Alcohols to Carbonyls and Monohydroxy Phenols with UHP in Ionic Liquid: Use of Acidic Amberlite Resin (IRA-120) as Catalyst”


Nishi Bhati, **Kuladip Sarma** and Amrit Goswami*

3) “Epoxidation of olefins with hydrogen peroxide: Strategic use of lipase enzyme and chiral organic acid”

Paper abstracted at “11th CRSI National Symposium”, February 6-8, 2009 held in National Chemical Laboratory, Pune, India.

**Kuladip Sarma** and Amrit Goswami*

4) “An efficient method for direct conversion of primary alcohols from acetals using a bimetal redox couple Zn-CoCl$_2$.6H$_2$O”.


**Kuladip Sarma** and Amrit Goswami*