

**Journal of the Indian Institute of Science  
Bangalore 560 012, India**

Volume 74

January–February 1994

Number 1

**Special Issue on Organic Synthesis–1**

**CONTENTS**

Preface		1
Special Issues on Organic Synthesis—List of Contributions		3
Jesus J. Juarez-Brambila and Bakthan Singaram	Use of mesityllithium in the $\alpha$ -alkylation reaction of B-alkyl-9-borabicyclo [3.3.1]nonanes	7
Brindaban C. Ranu Sanjay Bhar Rupak Chakraborty Asish Ranjan Das Manika Saha Arunkanti Sarkar Ratna Chakraborti and Dipak C. Sarkar	Surface-mediated reaction—A powerful technique in organic synthesis. Use of alumina and silica gel as active surface for useful synthetic transformations	15
Pemmaraju N. Rao C. Kirk Acosta Dorothy M. Peterson and Hyun K. Kim	Synthesis of new immunogens for the development of radioimmunoassay of levonorgestrel and its 3-oximes	35
S. Chattopadhyay and V. R. Mamdapur	Synthesis of chiral insect pheromones	51
Arpita Datta Gupta Debnath Bhuniya and Vinod K. Singh	Recent aspects of enantioselective epoxidation reactions	71
Subrata Ghosh and Subrata Sarkar	Recent developments in the synthesis of taxane diterpenes	91
Sanjay Jain Rahul Jain Jujhar Singh and Nitya Anand	Lactam acetals: Part XXIII. Synthesis of lactam spirocyclic acetals and their use in $\omega$ -hydroxyalkylation reactions	117
Janet A. Gaboury and Mukund P. Sibi	Synthesis of tetrahydrofuran lignans	135
Mariappan Periasamy Ch. Kishan Reddy and J. V. Bhaskar Kanth	Synthetic applications of $BI_3 \cdot N(C_2H_5)_2Ph$ complex	149
A. Srikrishna K. Krishnan and S. Nagaraju	A methodology for the synthesis of cyclopentanoid natural products containing two vicinal quaternary carbon atoms	157
Mugio Nishizawa and Hidetoshi Yamada	Synthesis and structure revision of intensely sweet saponin, osladin	169