

# Organic Preparations and Procedures International (OPPI)

## Table of Contents Volume 33, 1-621 (2001)

Chemical and Biochemical Hydroxylations of Steroids. A Review by <i>H. Pellissier*</i> and <i>M. Santelli*</i> .....	1
Recent Progress in the Synthesis of <i>bis</i> -Triazenes by <i>K. Vaughan</i> .....	59
Synthesis of 2(3 <i>H</i> )-Benzoxazolinone Derivatives as Potential Melatonin Receptor Ligands by <i>S. Yousef*</i> , <i>F. Klupsch</i> and <i>I. Lesieur</i> .....	75
Synthesis of Novel Tetrapyrroles and Their Zinc Complexes by <i>Y. Zhang</i> and <i>J. S. Ma*</i> .....	81
OPPI Briefs ( <i>J.-P. Anselme, Editor</i> ) .....	87
Direct Regeneration of Carbonyl Compounds From Oximes with PEG-NO <sub>2</sub> by <i>X. Liu</i> , <i>Q. Zhang*</i> , <i>S. Zhang</i> and <i>J. Zhang</i> .....	87
Preparation of 2-Phenyl-4-(1 <i>H</i> -pyrazol-5-yl)quinolines by <i>S. P. Grant</i> , <i>D. R. Hurst</i> , <i>T. L. Cordray</i> and <i>C. F. Beam*</i> .....	91
A Practical Method for the Synthesis of Phenophthalein Spirolactams by <i>M. Adamczyk*</i> and <i>J. Grote</i> .....	95
1,3-Dipolar Cycloadditions of 3-Phenylsydnone with Acetylene Dicarboxylates in Supercritical Carbon Dioxide by <i>A. E. McGowin*</i> , <i>L. Jackson</i> , <i>L. W. Marshall</i> , and <i>K. Turnbull</i> .....	100
Asymmetric 1,3-Dipolar Cycloaddition for the Construction of Enantiomerically Pure Heterocycles. A Review by <i>S. Karlsson</i> and <i>H.-E. Högberg*</i> .....	103
Reaction of Methacryloyl Isocyanate With Sulfonium and Phosphonium Ylides by <i>T. Hatta</i> , <i>S. Ishibashi</i> and <i>O. Tsuge*</i> .....	173
OPPI Briefs ( <i>J.-P. Anselme, Editor</i> ) .....	181
A Novel Synthesis of 2 <i>H</i> -1,4-Benzoselenazines from ( <i>o</i> -Nitrophenyl)diselenides and ω-Bromoketones Promoted by Sm/TiCl <sub>4</sub> System by <i>W. Zhong</i> , <i>Y. Zhang*</i> and <i>X. Chen</i> .....	181
Low-valent Titanium Induced One-Pot Synthesis of Imidazolidines by <i>Z. Li</i> and <i>Y. Zhang*</i> .....	185
Reductive Coupling of Carbonyl Compounds to Pinacols With Samarium/TMSCL System by <i>M. Yu</i> and <i>Y. Zhang*</i> .....	187
A New and Convenient Solvent-Free Method for the Preparation of 1,4-Diarylthio- semicarbazides by <i>J.-P. Li</i> , <i>Q.-F. Luo</i> , <i>Y.-L. Wang*</i> , <i>H. Wang</i> .....	190
Synthesis of 2-Cyano-3-dimethylamino- <i>N</i> -phenylacrylamides Using the Vilsmeier Reaction by <i>S. Selvi</i> and <i>P. T. Perumal*</i> .....	194
Boron Trifluoride Mediated, One-Pot Synthesis of 3-Methyl-1,2-dihydronaphthalenes by <i>R. R. Malladi</i> and <i>G. W. Kabalka*</i> .....	198
New Trends in Peptide Coupling Reagents by <i>F. Albericio</i> , <i>R. Chinchilla</i> , <i>D. J. Dodsworth</i> , and <i>C. Nájera*</i> .....	203
OPPI Briefs ( <i>J.-P. Anselme, Editor</i> ) .....	305
Dry Arenediazonium Nitrates From Aromatic Amines and Ureas with Nitrogen Dioxide Adducts of Dioxane and of Tributyl Phosphate	

by Z. Zhang, X. Liu, Q. Zhang*, S. Zhang and T. Huang .....	305
A Practical Synthesis of (3 $\alpha$ , 6 $\alpha$ )-1,3-Dibenzyl Hexahydro-1H-thieno[3,4- <i>d</i> ]imidazol-2(3h)-one by F.-E. Chen*, G. Meng, Y.-P. He, Y. Cheng and X.-H. Ling .....	311
Recent Progress in the Synthesis and Reactivity of Azetidine-2,3-Diones. A Review by B. Alcaide* and P. Almendros .....	315
Base Catalysis in the Willgerodt-Kindler Reaction by J. H. Poupaert*, K. Bouinidane, M. Renard, D. Lambert, and M. Isa .....	335
Synthesis and Characterization of New 2-Substituted Isoindoline Derivatives of $\alpha$ -Amino Acids by T. Mancilla*, L. Carrillo, L. S. Zamudio-Rivera, H. I. Beltrán and N. Farfán .....	341
Addition of Acetonitrile Anions to Unsaturated Systems Under Ultrasonically Dispersed Potassium System by Y. Gao, H. Wang, M. Xu, H. Lian, Y. Pan*, and Y. Shi .....	351
OPPI Briefs (J.-P. Anselme, Editor) .....	357
Improved Synthesis of Alkyl Diacetylacetates by S. J. Bingham and J. H. P. Tyman* .....	357
Synthesis of 6-Halo-1,2-benzisoxazoles, Chromeno-6,7-isoxazoles and Chromeno-6,7-oxazoles by L. Cires*, H. Ofenberg and C. Craita .....	361
An Improved Solvent-free Preparation of 2-Imidoylphenols by C. Cimarelli, G. Palmieri* and E. Volpini .....	369
Stereoselective Synthesis of (2E)-Cinnamanilides via Desulfonylation of (2E)- $\alpha$ -Amido- $\alpha$ , $\beta$ -Unsaturated Sulfones by Samarium/Glacial Acetic Acid/Ethanol System by Y. Liu and Y. Zhang* .....	372
Microwave-assisted Synthesis of Hexasubstituted Cyclotriphosphazenes by C. Ye*, W. Liu, Y. Chen and Z. Ou .....	376
A Facile Synthesis of N <sup>2</sup> -Benzyloxycarbonyl-(S)-2-amino-3-(dimethylamino)-propanoic Acid by R. Andruszkiewicz* and A. Walkowiak .....	379
An Expeditious Solventless Synthesis of Isoxazoles by M. Kidwai* and P. Sapra .....	381
Two-fold Cycloalkylations of a Bicyclo[3.3.0]Octane-3,7-dione by E. V. Dehmlow*, H.-J. Breyholz, B. Neumann and H.-G. Stammler .....	386
A New Facile and Expeditious Synthesis of <i>N</i> -Hydroxy- <i>N'</i> -phenyloctanediamide, a Potent Inducer of Terminal Cytodifferentiation by A. Mai*, M. Esposito, G. Sbardella and S. Massa .....	391
Efficient Solvent-free Microwave-assisted Esterification of Fusel Oil Using <i>p</i> -TsOH and H <sub>3</sub> PW <sub>12</sub> O <sub>40</sub> as Catalysts by E. R. Pérez, N. C. Carnevalli, P. J. Cordeiro, U. P. Rodrigues-Filho and D. W. Franco* .....	395
The Preparation of 1-Allyluracil. <i>N</i> (1)-Alkylation of <i>N</i> (3)-Protected Uracil Derivatives by Z. Paryzek* and B. Tabaczka .....	400
Convenient <i>N</i> -Protection of L-Pyroglutamic Acid Esters by R. Jain* .....	405
Recent Advances in the Synthesis of Pyrroles by V. F. Ferreira*, M. C. B. V. de Souza, A. C. Cunha, L. O. R. Pereira and M. L. G. Ferreira .....	411
Functionalization of the 18-Methyl Group of Steroids. A Review by H. Pellissier* and M. Santelli* .....	455
Synthesis of Coelenterazine by M. Adamczyk*, D. D. Johnson, P. G. Mattingly, Y. Pan and R. E. Reddy .....	477

Potential Metabolites of Selected Heteroarotinoids with Fused Five-Membered Rings by <i>J. B. Gale, J. Klucik, S. Subramanian, and K. D. Berlin*</i> .....	487
OPPI Briefs ( <i>J.-P. Anselme, Editor</i> ) .....	501
A Novel Synthesis of 2-Acylpyridines via Inverse Electron Demand Diels-Alder Reaction of 5-Acyl-1,2,4-Triazines by <i>A. Rykowski*, E. Olender, D. Branowska and H. C. van der Plas</i> .....	501
Synthesis of Hapten Phosphoramidites by <i>M. Adamczyk*, D. D. Johnson,     P. G. Mattingly and R. E. Reddy</i> .....	505
Synthesis and Synthetic Utility of 3-Isoxazolols. A Review by <i>U. S. Sørensen and P. Krosgaard-Larsen*</i> .....	515
Fragmentation and Cleavage Reactions Mediated by SmI <sub>2</sub> Part 1: X-Y, X-X and C-C Substrates by <i>D. B. G. Williams*, K. Blann and J. Caddy</i> .....	565
Synthesis of Julolidine Derivatives by <i>J. M. Kauffman* and S. J. Imbesi</i> .....	603
Ruthenium Catalyzed Oxidation of Haloindoles to Isatins by <i>G. W. Gribble* and Y. Liu</i> .....	615
OPPI Briefs ( <i>J.-P. Anselme, Editor</i> ) .....	621
A Convenient Preparation of 4-( <i>t</i> -Butyloxycarbonylamino)aniline by <i>B. N. Rao*, T. Venkateswarlu, P. G. Rao and M. K. Divi</i> .....	621
Indexes .....	625