

SUBJECT INDEX TO VOLUME 2

- Acetolysis671
of 1,6-anhydrohexopyranoses671
- 1-Acetyl-1'-benzyl-4-methyl-3,4-dihydrospiro[(1*H*)
quinoline-2,4'-piperidines]29
under debenzilation conditions29
- 5-Acetylamino-2-methyl furoate86
- 5-Acetylamino-4-[*N,N'*-bis-(tert-butoxycarbonyl)
guanidino]-2-methyl furoate87
- 5-Acetylamino-4-amino-2-methyl furoate87
- 5-Acetylamino-4-nitro-2-methyl furoate86
- Activated exo-glycals226
- Acyl iminiums410
gold-catalyzed coupling of410
- Alcohols544,644
iodination method of644
using cesium iodide/*p*-toluenesulphonic acid644
- Aldehydes151
effect of microwave irradiation in solvent-free
conditions151
rapid selective acetalization of151
role of anhydrous copper sulfate supported151
- Alkenes602
reaction of602
with AgNO₂/TMSCl602
- Alkoxyallene oxide648
alkoxyacetone enolate by648
for conjugate addition reaction648
use of648
- 3-Alkoxyacetyl 3-carboxamido-3-tropene derivatives..124
high-yielding synthesis of124
in homogeneous carbonylation reaction of
3-iodo-2-tropene124
- Alkyl cyanides725
from alcohols725
from thiols725
method of generating725
role of 2,4,6-trichloro [1,3,5]triazine/*n*-Bu₄NCN725
- Alkynes293,410
gold-catalyzed coupling of410
- Amides265
coupling reactions of269
preparation of265,269
reduction to amines in ionic liquids265
Weinreb reactions of269
- Amine receptor172
with terphenyl structure172
- Amino phosphonates428
synthesis of428
- 6-Amino-1*H*-indole-4,7- quinones378
chemistry of379
synthesis of378
- 5-Amino-2-methyl furoate86
- Amino- -hydroxy-polyethylene glycol oligodeoxyribo-
nucleotide conjugate690
synthesis of690
- Annulation176
of 4-pyrrolylbutanal to 5,6-dihydroindolizine
core176
- Arene-catalyzed lithiation reaction6
- Aromatic alcohols559
oxidation of559
to carbonyl compounds559
with oxygen559
- Arsole469
aromaticity of469
- Arylboronic acid-lead tetraacetate-copper diacetate407
one-pot system for407
- 3-(Aryloxyacetyl)-2,3-dihydrotheino [3,2-*c*] [1]
benzothiopyran-4-ones231
regioselective synthesis of231
tandem [2,3]/[3,3]sigmatropic rearrangement
approach to231
- Al₂O₃-supported P₄S₁₀330
thioamide for330
- Azides293,659
1,3-dipolar cycloaddition reaction of293
electrophilic substitution in659
- Azlactones415
synthesis of415
under microwave irradiation415
- Benzlation electrophilic aromatic substitutions139
via hyperdeaminatively generated benzyl
carbocations139
- Benzoquinone pharmacophore515
on labdane platform515
- 2-Benzothiazolyl 1-thiofuranosides271
application of271
synthesis of271
- Benzylidenation672
of hexopyranoses672
- Benzylsulfanyl- -trifluoromethyl- -amino acids156
role of Et₃N/LiBr156
synthesis of156
via Michael addition156
- 5,5'-Bicalix [4] arenes252

- Bis {3-(pyridin-2-yl)*H*-imidazo[1, 5-*b*]pyridine}712
 crystal structure of712
 fluorescent properties of712
 1,1'-solvothermal *in situ* ligand synthesis of712
- 4,4-Bis(alkylthio)but-3-en-2-one755
 acid-promoted cleavage of755
 thio-Michael addition to α,β -unsaturated
 ketones755
- Bromination767
 in micro reactor768
 in micro-reactor rig768
 of thiophene in micro reactors767
- Bronsted base catalysis398
- t*-Butyldimethylsilyl (TBS) ethers57
 role of *t*-butyldiphenylsilyl57
 zirconium (IV) chloride catalyzed highly
 selective deprotection of57
- C=N functionalities77
 procedure for cleavage of77
 with IDC/alumina system77
- C1-C6 fragment of erythronolides312
 synthesis of312
- C1-functionalized 8-oxabicyclo[3.2.1] oct-6- β -ones480
 stereocenter on48
- Carba- C-fucopyranosides247
 as inhibitors of α 1,6-fucosyltransferase247
 kinetic studies of247
 molecular modeling studies of247
 structure/activity relationship of247
- Carbamate derivatives535
 by reaction with amino acid ester isocyanates535
- Carbamate esters742
 basic resin catalyzed novel synthesis of742
 one-pot synthesis of742
via alcoholic tosylates742
- Carbohydrate synthesis670
 metal trifluoromethanesulfonates as versatile
 catalysts in670
per-O-acetylation of670
- Carbon-nitrogen bonds354
 catalyst for construction of354
- Carbon-sulfur354
 catalyst for construction of354
- Cardiomyogenesis122
- Cascade cross enyne/intramolecular RCM684
- Cascade cross enyne/ROM/intramolecular RCM685
- Cascade enyne/RCM678
 in organic synthesis678
- Cascade intramolecular enyne/RCM679
- Cascade intramolecular enyne/ROM/RCM684
- Catalytic enantioselective addition302
 effect of additional chiral ligands in302
 of ketene silyl acetals to nitrones302
- Catalytic Shapiro reaction11
- CeCl₃·7H₂O·SiO₂763
 as reusable catalyst763
 for synthesis of α -keto enol ethers763
- Cerium (III) triflate51
 as catalysts51
 in Friedel-Crafts acylation51
- Cesium iodide/aluminum chloride309
 and role of alcohols309
 selective iodination method for309
- Chemical synthesis521
 of sialic acid related oligosaccharides521
- Chemoselective carbonyl benzylation61
 mediated by Zn/CdCl₂/InCl₃ in tap water61
- Chiral isocyanate-phenol404
 derived from tyrosines404
 facile synthesis of404
- Chiral *N*-monosubstitute 1,2-diphenyl-2-aminoethanols605
- 2-Chloro-4,6-dimethoxy-1,3,5-triazine25
 for synthesis of 4,4-dimethyl-2-*R*-2-oxazolines
 use of25
- Chloromethoxymethyl polystyrene (CMM resin)371
 as acid labile resin371
 for anchoring/cleavage of *N*-heterocycles371
 for oxygen aromatic compounds cleavage371
- Chiral secondary amines33
 addition of33
- Chromium trioxide544,760
 in solution544,760
 in solvent free conditions544
 oxidation of544
 supported on NaHSO₄·H₂O544,760
 under solvent free conditions760
- Cis-4-(*N*-alkylamino)-L-prolines15
 high yield route to15
- Copoly(succinimide-aspartate)687
 in supercritical carbon dioxide687
 polymerization of L-aspartic acid to687
- Copper-catalyzed *N*-arylation407
- DC-cholesterol79
 analogues of79
 for gene therapy79
 simple approach to79

- 1-Deoxy-homonojirimycin316
 from α -ketoester bearing sugar316
 stereoselective preparation of316
- DFT analysis70
 based on reactivity indexes70
- Diastereoselective Baylis-Hillman type reaction721
 mediated by SmI_2 721
 use of enantiomerically pure α,β -unsaturated
N-acyloxazolidin-2-one in721
- Diastereoselective synthesis176,608
 of (\pm)-indolizidine 167B176
 of 3-phosphinoxido-/3-phosphono-1,2,3,4,5,6-
 hexahydrophosphinine oxides608
- (*1H*)-1,5-Diazaanthracene-2,9,10-triones374
 synthesis of374
- Dicarba-analog278
 in human serum278
 NMR data of278
 stability of278
- Diethylzinc addition605
 to *in situ* formed imines605
- 2,3-Dihydrobenzo [1,4] dioxin238
 as chiral tetrahydroquinoxaline238
 stereospecific synthesis of238
- Dihydrofullerene595
 preparation of595
 reversion to fullerene595
- 2,3-Dihydro-naphtho [2,3-] [1,4]-dioxin derivatives238
- 3,4-Dihydropyrimidin-2(*1H*)-ones561
 one-pot synthesis of561
 using CoCl_2 doped hydroxyapatite561
 using NiCl_2 561
 using ZuCl_2 , CuCl_2 561
- Dinucleoside analog synthesis613
 via microwave activated cross coupling
 metathesis613
- Diphenylzinc66
 procedure for conjugated addition of66
 to 2-cyclohexenone66
- Disecundary phosphines198
 role of CsOH 198
 synthesis of198
- DOTA peptide labeling160
 at phenylalanine residues160
 chemistry for160
 role in peptide ligand tagged libraries160
- Electrogenerated cyanomethyl anion731
 in organic synthesis731
- Embryonic stem cells122
- Enamines566
 to α -fluoro- α -nitroalkenes566
- Enantiopure bicyclic piperidinones21
 stereocontrolled cycloadditions of21
- Enantioselective bronsted acid398
- Enantioselective copper-catalysed conjugate addition65
 of diphenylzinc65
 to cyclohexenone65
- 1,10-Epoxyhypocretenolides461
 from leontodon rigens461
- Ethoxy benzopyrans458
 one-pot synthesis of458
- Facile synthesis419
 for novel pyrimido [1,3,4] triazepine419
- Ferrocenylalkynes219
 partially intramolecular cyclotrimerization of219
- Ferrocenylbenzenes219
 synthesis of219
 via CP^*RuCl -catalyzed219
- Fluorinated building-blocks566
 functionalized566
 via Michael addition566
- Furano benzopyrans458
 one-pot synthesis of458
- Furanosic sialylmimetic83
 as influenza neuraminidase viral
 inhibitor83
 design of83
 synthesis of83
 synthetic procedure for86
- Fused 1,3-oxazolidine-2-thiones47
 functional modulation processes of47
 on ketohexose backbones47
- (+)-Gloeosporone547
 enantiomeric synthesis of547
- Glycals676
 Ferrier-glycosylation of676
- Glycosidation242
 and alcohols242
 of 1-*C*-alkyl-2,3,4,6-tetra-*O*-benzyl-
 β -D-glucopyranosyl acetates242
 $\text{Sc}(\text{OTf})_3$ catalyzed242
- Glycosyl(aryl) dihydropyrimidinones450
 synthesis of450
 tetrabutylammonium hydrogensulphate450
- Glycosylation673
- Glycosyl trichloroacetimidates674

- High-throughput screening119
in small molecules identification119
- Homoallylic fluorine atoms148
effect on regioselectivity of Wacker reaction148
influence of148
- Hydrindanes364
formation of highly functionalized364
role of cross conjugated α -carbomethoxy-
enone system364
via polyene cyclization promoted364
- Hydroazulenes364
formation of highly functionalized364
role of cross conjugated α -carbomethoxy
enone system364
via polyene cyclization promoted364
- 24(S)/24(R)-Hydroxylcholesterol319
pathway of319
- Hyperdeaminative Friedel-Crafts139
brown selectivity disobedience of139
- Imidazo[1,2-*b*]pyridines184
solution/solid phase functionalization of184
- Imidazolium cyclophanes507
methodology to507
synthesis of509
- Imidazolium dichromate77
adsorption on alumina77
as reagent for cleavage of C=N functionalities77
preparation of77
- 2-Imidazolone derivatives501
by imidazole N^3 -oxide rearrangement501
- Iron (III) chloride/supported559
on dieselguguhr559
- Isocyanurates734
catalyzed by potassium phthalimide under
solvent-free conditions734
method for synthesis of734
- Ketones465,745
direct α -iodination of465
direct-thiocyanation of745
induced by aqueous hydrogen peroxide465
using cerium (IV) ammonium nitrate745
- α -Ketonitriles280
from 3-bromoisoxazoles.....280
synthesis of280
- Lanthanide-catalysed cross-Cannizzaro reduction145
of aromatic aldehydes with formaldehyde145
- Library generation118
- Lithium naphthalenide-mediated6
lithiation reaction6
- Long-chain-alkanes258
in thermal system of carbonate/sodium258
- Lyngbyabellin A699
total synthesis of699
- Lysozyme554
photocleavage of554
role of chiral probe554
- 1,2-Mannich condensation reaction40
between *o*-phthalaldehyde/primary amine40
reaction systems peripheral to40
- Mannich-type reaction235
of methylene active compounds235
- 14-Membered ring jaspamide derivatives528
synthesis of528
- 9-[2-*O*-(2-Methoxyethyl)- β -D-ribofuranosyl] purines343
synthesis of343
using 1-methanesulfonyloxy-2-methoxyethane343
- p*-Methoxybenzylation360
FeCl₃/FeCl₃-SiO₂ catalysed selective360
of alcohols with *p*-methoxybenzyl alcohol
(PMB-OH)360
- 3-Methylphenalen-1-one640
chiral heptacyclic oxocin by640
dimerization of640
- Microwave334
for solvent-free reactions334
- Microwave irradiation444
amides from ketones in dry media under444
- Monosubstituted epoxides752
role of dithiophosphorus acid752
Ti(IV)-catalyzed asymmetric
ring-opening of752
- Multidentate amino alcohol524
as chiral ligand524
enantioselective Nozaki-Hiyama allylations using 524
- N*-(*O*-aryl)-4-alkyl-thiazolin-2-one atropisomers433
absolute configuration of433
barrier to rotation of433
chiral separation of433
synthesis of.....433
- N,N'*-bis[formamidine]ureas621
facile synthesis of621
- Na₂CaP₂O₇428
three components coupling catalysed by428

Naphthoquinone series	367	One-pot reaction	10
intramolecular S _{RN} 1 reaction in	367	recycle use of bases/nucleophiles in	10
Natural biphenyls	214	One-pot redox procedures	5
by -1,1- dimethyleneallylpalladium complexes	214	reuse of reagents by	5
diethylzinc-mediated allylation of	214	One-pot synthesis	444
Negishi cross-coupling reaction	115	alumina supported sodium hydrogen sulfate	444
Neurogenesis	121	Organic synthesis	33,444
<i>N</i> -isopropyl arylidene amines	334	chiral acetylenic sulfoxide in	33
solvent-free reactions of	334	in solid media	444
with alkyl cyanoacetates	334	Organoiron methodology	222
Nitrile oxides	226	development of	222
cycloaddition of	226	Osteogenesis	119
5-Nitro-2-methyl furoate	86	1,2,5-Oxadiazole-2-oxides (furoxans)	602
3-Nitro-2-trihalomethyl-2 <i>H</i> -chromenes	616	synthesis of	602
Nitrones	226	<i>via</i> nitroso nitrates	602
cycloaddition of	226	1,3,4-Oxadiazoline derivatives	599
Nozaki-Hiyama-Kishi-Takai reaction	7	synthesis of	599
catalytic in chromium	7	Oxidative coupling	188
Nucleoside heterocycles	496	chemical/stereochemical aspects of	188
function of	496	of H-phosphonate	188
modification of	496	of H-phosphonothioate diesters	189
to expand nucleic acid	496	reactions with <i>N,N</i> -, <i>N,O</i> -/ <i>O,O</i> -binucleophiles	188
to probe	496	Oxidative palladium couplings	707
Octreotide	274	preparation of azepinoindole derivatives <i>via</i>	707
NMR data of	278	Oxiranes	652
pharmacophore in water solution	274	regioselective ring opening of	652
synthesis of dicarba-analog of	274	to halohydrins	652
type II -turn of	274	Palladium-catalyzed coupling reactions	113
Olefins	8	recent developments in	113
aminopicoline-assisted indirect hydroacylation of	9	Paterno-büchi reaction	132
catalytic oxyselenenylation-deselenenylation	8	on chiral allylic alcohols	132
sequence of	8	stereoselectivity in	132
chelation-assisted hydroiminoacylation of	9	PEG-linked acetoacetate	89
triply catalytic dihydroxylation reaction of	8	Baker's yeast reduction of	89
Oligodeoxynucleotide	179	Peptide coupling method	628
mild/facile deprotection for	179	application to synthesis of /natural antioxidant	628
synthesis of	179	trans-clovamide	628
with 6- <i>O</i> -ethyl-deoxyguanosine	179	in synthesis of <i>N</i> -furylamino/ <i>N</i> eruloylamino	628
Oligosaccharides	580	acid derivatives	628
active-latent strategy to	585	Perylene bismide dye	349
and steric	586	DNA-binding fourfold spermine functionalized	349
armed-disarmed	584	Phenylpyruvic acid	415
block synthesis of	582	synthesis of	415
by <i>in-situ</i> pre-activation	584	under microwave irradiation	415
by tow-step activation	584	Phoshine macrocycles	198
chemical synthesis of	580	Phosphonium ionic liquids	550
chemo-selective strategies to	584	as solvents	550
orthogonal/semi-orthogonal strategies to	586	role in nitration reactions of arenes	550
regioselective/acceptor-based strategies to	587		
strategic approach to	580		

Photo-reactive fluorescent glycosyl donor	323	Ratiometric fluorescence sensing	54
design of	323	novel mechanism of	54
for fabrication of carbohydrate-based functional		of d10 metal ions	54
materials	323	response in	54
Pitipeptolide A	703	specificity of	54
total synthesis of	703	Regioselective[2+2]cycloaddition	68
Polycyclic aromatic hydrocarbons (PAHs)	258	computational methods for	69
in thermal system of carbonate/sodium	258	DFT analysis of	68
Polyfunctionalized cycloheptanes	480	model for	69
stereocenters on	480	of benzyne possessing fused four-membered ring ..	68
Polyfunctionalized cycloheptane synthons	475	origin of	72
by hydrolytic cleavage of oxygen bridge	475	PES analysis of	70
in C1-functionalized 8-oxabicyclic [4+3]-		strain-induced	68
cycloadducts	475	Shapiro reaction	10
methodology to prepare	475	-Silyloxyallylstannanes	512
Polysuccinimide	687	application to synthesis of erythro-sphingosine ..	512
in supercritical carbon dioxide	687	diastereoselective allylation of imines with	512
polymerization of L-aspartic acid to	687	role of trimethylsilyl triflate	512
Preclamol	136	SmI ₂ -catalyzed pinacol coupling	7
synthesis of	136	Sodium hypochlorite/montmorillonite K10	485
Protection/deprotection sequence	8	as oxidant	485
recycle use of activating additives by	8	in oxidation of thiols to disulfides	485
<i>p</i> -tert-butyl-5,5'-bicalix [4] arene	252	Sodium nitrate	354
synthesis of	252	natural phosphate modified with	354
Pyrano benzopyrans	458	Solvent-free synthesis	718
one-pot synthesis of	458	of 3,4-dihydropyrimidin-2(<i>IH</i> -ones using	
Pyranoid sugar -amino acid derivatives	165	trichloroiso/cycnuric acid	718
from 2-oxo-D-gluconic acid	165	Spiro-4-piperidines	29
synthesis of	165	acetyl migration in	29
Pyrazoles	37	synthesis of	29
from pseudo-cross-conjugated mesomeric		transformations of	29
betaines	37	Stem cells	118
nucleophilic carbenes of	37	differentiation of	118
Pyrazolinyl carbazoles	569	Stereoselective aldol-reduction	312
synthesis of	569	approach to polyoxygenated natural products	312
Pyrazolyl	569	Stereospecific <i>N</i> -substituted chiral morpholines	306
synthesis of	569	synthesis of	306
Pyrazolyl-1,3,4-oxadiazoline	599	Steroidal alkyne	319
synthesis of	599	highly stereoselective alkynylation with	319
Pyrrolo-pyrones	739	Stoichiometric organic synthesis	5
facile regioselective synthesis of	739	catalytic version of	5
Quercetin	535	Streptogramin antibiotics	222
syntheses of carbamate derivatives of	535	C8-C16 dienylamine segment of	222
Quinolindione derivatives	340	3-Substituted isocoumarins	532
assisted by microwave irradiation	340	microwave-assisted synthesis of	532
synthesis of	340	4-Substituted-2-oxazolidinones	637
		asymmetric synthesis of	637
		Sulfamic acid	458
		as catalyst	458

- Suzuki-Miyaura cross-coupling reaction113
- Symmetrical *N,N'*-disubstituted formamidines621
 facile synthesis of621
- Synthesis694,731
 of novel coumarin derivatives 7,8-fused
 onto thiazole694
 of 1,3-oxazolidine-2,4-diones731
- Tandem reaction739
 of 4-*N*-(4'-aryloxy-2'-ynyl), *N*-methyl pyran-2-
 ones with 3-chloroperoxybenzoic acid739
- TBS deprotection59
 experimental procedure for59
- Ternstroemia gymnanthera*262
 aromatic compounds from262
 degraded terpenoids from262
- Terphenyl thioglycosides665
 synthetic pathways to665
- Terphenyl derivatives172
 synthesis of172
- 5,11,17,23-Tetra(tert-butyl)590
 25,27-bis(ethoxymethoxy)-26,28-bis
 (diethylaminocarbonylmethoxy)calix[4]arene590
 cation binding properties by590
 synthesis of590
- Tetrabutylammonium halide652
 in water652
 role of β -cyclodextrin652
- 2,3,2',3'Tetrahydro-1*H*,1'*H*-[2,2'] biindenyl539
 combined theoretical/experimental approach to ...539
- Tetrahydroazocino[4,5-*b*]indoles18
- Tetrahydropyrrolo[2,3-*d*]azocines18
 first efficient one-pot synthesis of18
- Tetraphenylethene systems518
 fluorine-substituted518
- Tetrasaccharide749
 in motif B of *Mycobacterium tuberculosis*
 cell wall749
 synthesis of749
- Thioglycosides674
- Thionation330
 of amides330
 thioamides from330
- Titanium tetraiodide/titanium tetraisopropoxide648
 alkoxyacetone enolate by648
 for conjugate addition reaction reaction648
 use of648
- Triaryl isocyanuranurates737
 procedure for synthesis of737
- 1,2,4-Triazine derivatives415
 synthesis of415
 under microwave irradiation415
- Trifluorocasodex (Bicalutamide)447
 anti-proliferative activity of447
 synthesis of447
- (*S*)- -Trifluoromethyl-aspartic acid235
 stereoselective synthesis of235
- Trifluoropyruvate235
 chiral sulfinimine of235
- Trimethylsilyl ethers760
 in solution760
 oxidative deprotection of760
 under solvent free conditions760
- 2,3,4-Trisubstituted chromans616
 by N/C/S-nucleophiles616
 synthesis of616
 via nucleophilic addition of616
- 1,3,5-Trisubstituted hydantions44
 and / -unsaturated carboxylic acids44
 and asymmetric carbodimides44
 by domino condensation/aza-Michael/O \rightarrow N acyl
 migration44
 regioselective synthesis of44
- / -Unsaturated carbonyl compounds128
 highly diastereoselective epoxidation of128
 role of sodium peroxide128
- Unsaturated polyesters74
 alternative cross-linking of74
 model studies of74
- Unsymmetrical urea404
 derived from tyrosines404
 facile synthesis of404
- Vitamin D-based cationic lipids79
 for gene therapy79
- Y-27632634
 as selective rho-kinase inhibitor634
 enantiomer of634
 short synthesis of634
- Zn-tetraphenylporphyrins424
 solid-state supramolecular chemistry of424
 with 4,4'-dipyridyl *N,N'*-dioxide424
 with hexamethylenethylenetetramine424
 X-ray crystallography of425

