

Keyword Index (Volume 5)

<i>Ab initio</i>	74	Bamboo multi-walled carbon nanotubes	279
Acetals and ketals	420	Batch equilibration	252
Acetaminophen	296	Baylis-Hillman reaction	159
Acetates	407	1,3,5-Benzenetricarboxylic acid	48
ω-Aceto khellinone	506	Biginelli reaction	62, 96
Acetonitrile	309	Bimetallic complexes	122
Activation parameters	623	Binding constants	553
Adenosine deaminase	464	Biological activity	106, 579
Adriamycin	140	Biomimetic oxidation	244
Adsorption	394, 425	Biosensors	1, 476
Ag-Ag interaction	48	Bis(5-bromosalicylaldehyde) orthophenylenediamine	677
Alanine	430	Bis-chalcones	262
Alcohols	90, 316, 420	Bis-pyrimidines	262
Aldehydes	694	Bis-thiazines	262
Allyl glycidyl ether	37	Bromide	400
Alumina sulfuric acid	62	Bulky ligands	458
AM1	498	Bulky substituents	375
Amide	100	Cadmium pentacyanonitrosylferrate	296
Amines	384	Calix[4]resorcinarene	646
β-Amino alcohols	384	Captopril	324
Amperometric determination	296	Carbon dioxide	286
Anilines	436	Carbon nanotube	641
Anthelmintic activity	445	Carbonyl compounds	699
Antifungal	150	Carboxylic acid	413
Anti-HIV	228	Catalyst impurities	279
Antimicrobial activity evaluation	67	Catechol	712
Antimicrobial properties	122	Cathodic adsorptive stripping voltammetry	83
Antimycobacterial agents	150	Ceric sulfate	631
Antipyrilquinoneimine dyes	436	Cerium complex	342
Antivirals	228	Cerium(IV) salt	407
AOPs	346	Character table	514
A paper form	706	Charge-transfer complex	610
Arsenazo III	115	Chelating resin	252
Artificial neural networks	669	Chemical equilibrium	522
Aryl carboxylate	413	Chemiluminescence	140
Azachalcones	150	Chemometrics	352
3'-Azido-3'-deoxythymidine (AZT)	498	Chiral furyl carbinols	238
Azidothymidine	498	4-Chloromethyl styrene	37
Back-propagation	669	Claisen condensation	159

Claisen-Schmidt and crossed aldol condensations	694	Electrochemical reactivity	279
Cleavage of N-C bond	689	Electron transfer	279
Clenbuterol enantiomers	553	Electron transport	566
Clinoptilolite	394	Electrophoretic enantiomeric separation	553
Cobalt	546, 677	Electropolymerization	559
Complex	574	Enediol intermediate	623
Complexation equilibria	522	Epoxidation	375
Concentrated acidic medium	535	Epoxide	384
Condensation	316	α,β -Epoxy ketones	135
Conducting polymer	559	Fast green FCF	346
Conjugacy class	514	Fe(HSO ₄) ₃	96
Coordination polyhedron	184	Fe(NO ₃) ₃ .9H ₂ O	420
Coordination polymer	48	FeTi	425
Corrected sequencing	519	Formaldehyde	140
Corrosion	669	Formation constant	610
Coumarin	67	Free-base porphyrins	57
Counter ion	309	Free energy of hydration	464
Coupling reaction	436	Free radical intermediate	535
Crystal structure	106, 184, 342, 430, 484, 574, 588, 689	Friedel-Crafts reaction	159
CuO	367	Friedlander method	490
Cyano-bridged	342	Fries rearrangement	159
Cyclic voltammetry	559, 712	Fullerene	274
Cycloheptapeptide	445	Fullerene C ₆₀	1
Cyclopropane	458	Full non-rigid group	514
Cytotoxicity	445	Furazolidone	453
Darzens reaction	135	Gem-dihalocyclo-propane	458
Delayed autocatalysis	535	Glycine	535
Density	286	H-bond complexes	57
Density Functional Theory	566, 641	Heat capacity	286
Deprotection	90	Hexacyanoferrate(II)	29
Desorption	657	Hexacyanoferrate(II) oxidation	29
Determination	453	HOPG	274
DFT	74, 498	HPLC	324
Diaminoamide	689	H-point standard addition	546
1,4-Dihydropyridine	244	Human papilloma virus	476
Dihydropyrimidinones	62	Human serum albumin	115
3,4-Dihydropyrimidin-2(1 <i>H</i>)-ones	96	Human tyrosinase	519
Dimethylsulfoxide	309	Hybrid material	430
Dinitrogen tetroxide	90	Hydralazine hydrochloride	316
Dip coating,	603	Hydrogen bonds and π - π stacking	184
Distribution coefficient	252	Hydrosilylation	37
Dithiol-benzene	566	Hydrothermal reaction	484
Dye sorption	595	Hydrothermal treatment	706

Hydroxamic acid	646	Mesoporous	367
Hydroxylation	375	Metal impurities	279
Hydroxypropyl- β -cyclodextrin	553	Metallosurfactants	106
ICP-AES technique	336	Methoxymethyl ethers	420
Immobilized enzymes/antibodies	1	5,5'-Methylene-bis-salicylaldehyde	262
Impedance technique	559	Methylene blue	476
Impurity	641	1-Methylimidazole	413
Inducible nitric oxide synthase	306	Methylthymol blue	546
Inhibitor	306	Micellization	309
Inorganic ion exchanger	595	Michael addition	100, 159, 617
Interaction	115	Microwave	100, 617
Internal standard	336	Microwave irradiation	407
Iodide	400	Microwave technique	67
Iodine	610	Mitomycin	140
Ionic liquids	135, 407	Mixed valences	706
IR	579	Modified electrode	296
IR and UV-Vis spectra	122	Molecular dynamic	464
Isotherm	425	Molecular dynamics simulation	425
Isoxazole	67	Molecular electronics	566
<i>Jatropha podagraria</i>	445	Molecular interaction	57
Keggin	588	Molecular switch	566
Ketones	490, 694	MP2	498
Khellin hydrolysis	506	Multi-component analysis	352
Khellinone	506	NaHSO ₄ .H ₂ O	420
Kinetic	610, 712	Nanocomposite material	268
Kinetic methods	352	Nanocrystalline	367
Kinetic parameters	252	Nanometer MCM-41 molecular sieve	268
Kinetic resolution	238	Nanostructure	603
Kinetics and mechanism	29, 623, 631	Nanowires	274
L-alanine and L-leucine	535	NaOH	617
Lanthanum	268	Natural gas	394
Layered structure	706	<i>N</i> -Bromosaccharin	400
Lead	669	Neodymium	484
Linear sweep voltammetry	115	Nicotinic acid	484
Liquid-liquid extraction	646	<i>N</i> -Iodosaccharin	400
Lithium aluminium hydride	699	Nitrogen	394
Macrocyclic complexes	328	4-Nitrophenol	57
Macrocyclic diamide	610	NMR	579
Magnetic susceptibility	342	<i>N,N</i> -Dialkyl sulfonamide	617
Manganese salen	375	Noncovalent bonding	57
Manganese(III) Schiff base	244	Non-Equilibrium Green's function	566
Mass	579	Non-linear least-squares fitting	522
Mechanism	712	Nucleosides	228
2-Mercaptobenzimidazole (MBIM)	83	Nucleotides	228
Mercury(II)	574	OCA 1A	519

Oculocutaneous albinism	519	Reaction kinetics	436
O-donor ligands	16	Redox reaction	631
Optical properties	268	Reducing sugars	623
Organic/inorganic hybrid	588	Reduction	699
Organotin(IV) carboxylates	579	Reduction, oxidation, cycloaddition, and hydrometalation	159
Organotin(IV) complexes	16	Rhenium(I)	689
<i>ortho</i> -Aminoaryl ketones	490	Room temperature	62, 135
Oxathiolane	228	Ruthenium nanoparticles	436
Oxidation	623, 712	Sawdust	657
Oxone	244	SC-84536	306
Oxovanadium(IV)	328	Schiff base ligand	122
<i>p</i> -Dimethylaminobenzaldehyde	316	S-donor ligands	16
Pencil graphite electrode	476	Semiconductors	641
Periodate	29, 375	Silica chloride	699
Periodate oxidation	29	Silica gel	90
Permanganate	623	Silica sulfuric acid	490
Permanganate oxidation	535	Silica supported boron trifluoride	694
Pharmaceutical sample	677	Silver(I)	48
Phosphine oxides	699	Silver ion	657
Phosphonium salts	106	Silyl and tetrahydropyranyl ethers	400
Phosphoramidates	228	Simultaneous determination	352
Photobleaching	346	Solar photo-Fenton	346
Photochemical degradation	346	Sol-gel	603
Phthalimide	306	Solid acid	694
Piezoelectric crystal sensors	1	Solution	48
PM3 calculation	506	Solvent-free	62, 238, 413, 617
Podacycline B	445	Solvent-free conditions	96, 694
Polyaniline	657	Solvent-free reactions	420
Poly(3-methylthiophene)	559	Sorption	657
Polypyrrole	657	Sorption of anti-infective dyes	595
Polysiloxane	37	SPE	324
Porcine pancreatic lipase	238	Spectrophotometry	316, 677
Potassium permanganate	140	Spectroscopy	610
Potato virus X	328	Speed of sound	286
Precolumn derivatization	324	Spin coating	603
Preconcentration	646	Square-wave voltammetry	83, 476
Protected β -amino acid	100	Static mercury drop electrode	83
Protein assay	115	Stereochemically active lone pair	184
Protonation equilibria	522	STM	274
Proton transfer compounds	184	Structural chemistry	16
2-Pyrazoline	150	Sulfamic acid	384
4'-(4-Pyridyl)-2,2':6',2"-terpyridine	574	Sulfonamide	74
QM/MM minimization	464	Supramolecular systems	184
Quinolines	490	Surface acoustic wave sensors	1
Rare earth	484	SW Voltammetry	453

Symmetrically independent <i>Keggin</i> polyoxoanions	430	Tris(dimethylphenylsilyl)methane	458
Synthesis	238, 306	Tris(dimethylsilyl)methane	37
TBA	514	Tris(trimethylsilyl)methane	458
Ternary PtPd ₅ Rh ₅ alloy	336	TrisyI	37
Template	328	α,β -Unsaturated ester	100, 617
Tetrahydropyranyl ethers	90	Urine	453
Tetravalent metal acid salt	595	UV-Vis absorption spectroscopy	631
Thermal study	48	Vanadium	646
Thermodynamic parameters	553	Vanadium oxide ribbon-like nanobelts	706
Thiazole	67	Vibrational frequencies	74
Thin film	603	Visible	74
Three-component condensation	96	WO ₃	588
TiO ₂	367	Woodward's reagent K	464
Titration	522	X-ray diffraction	342
Tosyl chloride	413	X-ray fluorescence spectroscopy	336
Transport studies	646	Zinc	546
Triazenes	74	ZnO	603
Trimethylsilyl ethers	90, 407	ZrCl ₄ and ZrOCl ₂ .8H ₂ O	159
Triphenylphosphine	400	Zr(IV) phosphate	595
Tris(2,2'-bipyridine)iron(II) sulfate	631		