Basic Keyword list

A
Ab initio calculations
Absorption
Acidity
Actinides
Acylation
Addition to alkenes
Addition to carbonyl compounds
Adsorption
Aerobic oxidation
Aggregation
Agostic interactions
Alanes
Alcohols
Aldehydes
Aldol reaction
Alkali metals
Alkaline earth metals
Alkaloids
Alkanes
Alkene ligands
Alkenes
Alkylation
Alkyne ligands
Alkynes
Alkynylation
Allenes
Allosterism
Allotropy
Alloys
Allyl ligands
Allylation
Allylic compounds
Allylic substitution
Aluminosilicates
Aluminum
Amalgams
Amides
Amination
Amine oxides
Amines
Amino acids
Amino alcohols
Amino aldehydes
Amorphous materials
Amphiphiles
Analytical methods
Angiogenesis
Anhydrides
Anions
Annulation
Annulenes
Antibiotics
Antibodies
Antifungal agents
Antigens
Antimony
Antisense agents
Antitumor agents
Antiviral agents
Aqueous-phase catalysis
Arene ligands
Arenes
Argon
Aromatic substitution
Aromaticity
Arsenic
Arylation
Aryl halides
Arynes
As ligands
Asymmetric amplification
Asymmetric catalysis
Asymmetric synthesis
Atmospheric chemistry
Atom economy
Atropisomerism
Aurophilicity
Autocatalysis
Automerization
Autoxidation
aza-Baylis-Hillman reaction
Azapeptides
Azasugars
Azides
Aziridines
Azo compounds
Azomethine ylides

B
Baeyer-Villiger reaction
Barium
Basicity
Baylis-Hillman reaction
Beryllium
Betaines
Biaryls
Bioinformatics
Bioinorganic chemistry
Biological activity
Biomimetic synthesis
Bioorganic chemistry
Biophysics
Biosensors
Biosynthesis
Biotransformations
Biphasic catalysis
Bismuth
Block copolymers
Bond energy
Bond theory
Boranes
Borates
Boron
Bridging ligands
Bromine
Brønsted acids

C
C-C activation
C-C bond formation
C-C coupling
C-Cl bond activation
C-Glycosides
C-H activation
C1 building blocks
Cadmium
Cage compounds
Calcium
Calixarenes
Calorimetry
Carbanions
Carbene homologues
Carbene ligands
Carbenes
Carbenoids
Carbides
Carbocations
Carbocycles
Carbohydrates
Carbon
Carbon dioxide fixation
Carbonyl ligands
Carbonylation
Carboranes
Carboxylate ligands
Carboxylation
Carboxylic acids
Carbyne ligands
Carotenoids
Catalyst design
Catalyst recycling
Catalytic antibodies
Catenanes
Cations
Cavitands
Ceramics
Cerebrosides
Cerium
Cesium
Chain structures
Chalcogens
Chaperone proteins
Charge carrier injection
Charge transfer
Chelates
Chemical vapor deposition
Chemical vapor transport
Chemisorption
Chemoenzymatic synthesis
Chemoselectivity
Chiral auxiliaries
Chiral pool
Chiral resolution
Chirality
Chlorine
Chromates
Chromium
Chromophores
Circular dichroism
Clathrates
Clays
Cleavage reactions
Cluster compounds
Cobalamines
Cobalt
Cofactors
Colloids
Combinatorial chemistry
Computer chemistry
Conducting materials
Configuration determination
Conformation analysis
Conical intersections
Conjugate addition
Cooperative effects
Coordination modes
Copolymerization
Copper
Cracking
Crop protection agents
Cross-coupling
Crown compounds
Cryptands
Crystal engineering
Crystal growth
Cumulenes
Cuprates
Cyanides
Cyanines
Cyclic voltammetry
Cyclitols
Cyclization
Cycloaddition
Cyclodextrins

Cyclooligomerization
Cyclopentadienyl ligands
Cyclophanes
Cyclopropanes
Cyclotrimerization
Cytochromes
Cytokines

D
Dehydrogenation
Dendrimers
Denitrification
Density functional theory
Desymmetrization
Desulfurization
Deuterium
Diamines
Diastereoselectivity
Diazo compounds
Diels-Alder reaction
Diene ligands
Dienes
Dihydroxylation
Dimerization
Dioxygen ligands
1,3-Dipolar cycloadditions
Directed evolution
DNA
Domino reactions
Donor-acceptor systems
Dopamines
Doping
Drug delivery
Drug design
Dyes/Pigments
Dynamic kinetic resolution

E
E-factor
Electrochemistry
Electrocyclic reactions
Electron diffraction
Electron microscopy
Electron transfer
Electron transport
Electron-deficient compounds
Electronic structure
Electrophilic addition
Electrophilic substitution
Electrophoresis
Electrostatic interactions
Elimination
Enantioselectivity
ENDOR spectroscopy
Ene reaction
Energy conversion
Enolates
Enols
Enones
Environmental chemistry
Enynes
Enzyme catalysis
Enzyme models
Enzymes
Epoxidation
Epoxides
EPR spectroscopy
Esterification
Esters
Ethylene
EXAFS spectroscopy
Exchange interactions
Extremophiles

F
Fatty acids
Femtochemistry
Ferrocene ligands
Fibrous proteins
Flow chemistry
Flash pyrolysis
Fluorescence
Fluorescence spectroscopy
Fluorescent probes
Fluorides
Fluorinated ligands
Fluorination
Fluorine
Fluxionality
Fractals
Fragrances
Friedel-Crafts reaction
Fullerenes
Furans
Fused-ring systems

G
Gallium
Gas chromatography
Gas-phase reactions
Gels
Gene expression
Gene sequencing
Gene technology
Genomics
Germanium
Glasses
Glycoconjugates
Glycolipids
Glycopeptides
Glycoproteins
Glycosides
Glycosylation
Gold
Green chemistry
Grignard reaction
Group 13 elements
Group 14 elements

H
Hafnium
Halides
Halogenation
Halogens
Heats of formation
Heck reaction
Helical structures
Helium
Heme proteins
Heterocycles
Hetero-Diels-Alder reaction
Heterogeneous catalysis
Heterometallic complexes
High-pressure chemistry
High-temperature chemistry
High-throughput screening
Homogeneous catalysis
Hormones
Host-guest systems
Hydrates
Hydrazines
Hydrazones
Hydride ligands
Hydrides
Hydroamination
Hydroboration
Hydrocarbons
Hydrocyanation
Hydroformylation
Hydrogen
Hydrogenation
Hydrogen bonds
Hydrogen peroxide
Hydrogen transfer
Hydrolases
Hydrolysis
Hydrophobic effect
Hydroquinones
Hydrosilylation
Hydrostannation
Hydrothermal synthesis
Hydroxylation
Hyperconjugation
Hypervalent compounds

I
Imaging agents
Imines
Immobilization
Inclusion compounds
Indium
Indoles
Inhibitors
Insertion
Intercalations
Interfaces
Intermetallic phases
Iodine
Ion channels
Ion chromatography
Ion exchange
Ion pairs
Ion-molecule reactions
Ionic liquids
Ionization potentials
Ionophores
IR spectroscopy
Iridium
Iron
Isocyanide ligands
Isoelectronic analogues
Isolobal relationship
Isomerases
Isomerization
Isomers
Isotope effects
Isotopes
Isotopic labeling

J
Jahn-Teller distortion

K
Ketones
Kinetic resolution
Kinetics
Krypton

L
Lactams
Lactones
Ladder polymers
Langmuir-Blodgett films
Lanthanides
Lanthanum
Laser chemistry
Laser spectroscopy
Layered compounds
Leaching
Lead
Lewis acids
Lewis bases
Ligand design
Ligand effects
Ligases
Linear free energy relationships
Lipases
Lipids
Lipophilicity
Lipoproteins
Liposomes
Liquid chromatography

Liquid crystals
Liquids
Lithiation
Lithium
Low-temperature physics
Luminescence
Lyases

M
Macrocycles
Macrocyclic ligands
Magnesium
Magnetic properties (including magnetochemistry)
Main group elements
Manganese
Mannich reaction
Mass spectrometry
Materials science
Matrix isolation
Mechanical properties
Medicinal chemistry
Medium-ring compounds
Membrane proteins
Membranes
Mercury
Mesophases
Mesoporous materials
Metabolism
Metal-metal interactions
Metalation
Metallacycles
Metallocenes
Metalloenzymes
Metallomesogens
Metalloproteins
Metastable compounds
Metathesis
Micelles
Michael addition
Microporous materials
Microreactors
Microwave heating
Mixed-valent compounds
Moessbauer spectroscopy
Molecular devices
Molecular diversity
Molecular dynamics
Molecular electronics
Molecular evolution
Molecular modeling
Molecular recognition
Molybdenum
Monolayers
mRNA
Mukaiyama aldol reaction
Multicomponent reactions
Multiphase catalysis
Multiple bonds
Mutagenesis

N
Nanoparticles
Nanostructures
Nanotechnology
Nanotubes
Natural products
Neighboring-group effects
Neon
N-heterocyclic carbenes
Nickel
Niobium
Nitrides
Nitriles
Nitroaldol
Nitroarenes
Nitrogen
Nitrogen fixation
Nitrogen heterocycles
Nitrogen oxides
Nitrogenases
N ligands
NMR spectroscopy
Noble gases
N,O ligands
Noncovalent interactions
Nonequilibrium processes
Nonlinear optics
Nonstoichiometric compounds
Nucleic acids
Nucleobases
Nucleophilic addition
Nucleophilic substitution
Nucleosides
Nucleotides

O
Olefination
O ligands
Oligomerization
Oligonucleotides
Oligosaccharides
O-O activation
Organic-inorganic hybrid composites
Organocatalysis
Osmium
Oxazolines
Oxidation
Oxidoreductases
Oxo ligands
Oxygen
Oxygen heterocycles
Oxygenation
Ozone
Ozonolysis

P
Palladium
Pauson-Khand reaction
Peptide nucleic acids
Peptides
Peptidomimetics
Perfluorinated solvents
Pericyclic reaction
Perovskite phases
Peroxides
Peroxo ligands
Phage display
Phanes
Phase diagrams
Phase transitions
Phase-transfer catalysis
Phenols
Pheromones
Phosphaalkenes
Phosphaalkynes
Phosphane ligands
Phosphanes
Phosphazenes
Phosphite ligands
Phospholipids
Phosphorus
Phosphorus heterocycles
Phosphorylation
Photoaffinity labeling
Photochemistry
Photochromism
Photoelectron spectroscopy
Photolysis
Photooxidation
Photosynthesis
Phthalocyanines
Physisorption
Phytochemistry
Pi interactions
Pincer complexes
Plasma chemistry
Platinates
Platinum
P ligands
Pnicogens
Pnictides
P,N ligands
Polarized spectroscopy
Polyanions
Polycations
Polychalcogenides
Polycycles
Polyhalides
Polyketides
Polymerase chain reaction
Polymerization
Polymers
Polymethines
Polymorphism
Polyoxometalates
Porphyrins
Potassium
Preparative-scale synthesis
Prodrugs
Proline
Propargylation
Propargylic alcohols
Prostaglandins
Protecting groups
Protein design
Protein engineering
Protein folding
Protein models
Protein modifications
Protein structures
Proteins
Proteomics
Proton transport
Protonation
Pyridines
Pyrroles

Q
Quantum chemistry
Quaternary stereocenters
Quinodimethanes
Quinones

R
Racemization
Radical ions
Radical reactions
Radicals
Radiochemistry
Radiopharmaceuticals
Raman spectroscopy
Rare earth elements
Reaction mechanisms
Reactive intermediates
Rearrangement
Receptors
Redox chemistry
Reduction
Regioselectivity
Retro reactions
Rhenium
Rhodium
Ribonucleosides
Ribozymes
Ring-closing metathesis
Ring contraction
Ring expansion
Ring-opening polymerization
RNA
Rotational spectroscopy

Rotaxanes
Rubidium
Ruthenium
S
Salen ligands
Salt effect
Samarium
Sandwich complexes
Scandium
Scanning probe microscopy
Schiff bases
Selenium
Self-assembly
Semiconductors
Semiempirical calculations
Sensitizers
Sialic acids
Sigmatropic rearrangement
Silanes
Silica gel
Silicates
Silicon
Si ligands
Silylation
Silver
Singlet oxygen
S ligands
Small ring systems
Sodium
Sol-gel processes
Solid-phase synthesis
Solid-state reactions
Solid-state structures
Solvent effects
Solvent-free reactions
Solvolysis
Sonication
Sonogashira reaction
Spin crossover
Spiro compounds
Stacking interactions
Stannanes
Stereoselectivity
Steric efects
Steroids
Strained molecules
Strontium
Structure elucidation
Structure-activity relationships
Substituent effects
Subvalent compounds
Sulfonamides
Sulfoxides
Sulfur
Sulfur heterocycles
Superacidic systems
Superconductors
Supercritical fluids
Supported catalysts
Supramolecular chemistry
Surface chemistry
Surfactants
Suzuki-Miyaura reaction
Synthesis design
Synthetic methods

T
Tantalum
Tautomerism
Technetium
Tellurium
Template synthesis
TEMPO
Terpenoids
Thallium
Thermochemistry
Thermodynamics
Thermomorphic solvents
Thin films
Thiols
Through-bond interactions
Through-space interactions
Tin
Titanates
Titanium
Total synthesis
Transesterification
Transferases
Transition metals
Transition states
Transuranium elements
Tridentate ligands
Tripodal ligands
tRNA
Tungsten

U
Umpolung
α,β-Unsaturated carbonyl compounds
Uranium
UV/Vis spectroscopy

V
Valence isomerization
Vanadates
Vanadium
Vibrational spectroscopy
Vinylidene ligands
Vitamins
Voltammetry

W
Waste prevention
Water
Wittig reaction

X
X-ray absorption spectroscopy
X-ray diffraction
Xenon

Y
Ylides
Ytterbium
Yttrium

Z
Zeolite analogues
Zeolites
Ziegler-Natta catalysis
Zinc
Zincates
Zirconium
Zwitterions

