



Subject index

- (*N,N'*-ethylenabis(salicylideneimino))iron(III) chloride, 225
“Superalkali” species, 313
1-(2-aminoethyl)-3-methylimidazolium hexafluorophosphate, 1537
1,3-Benzenedicarboxylate, 669
1,3-Dipolar cycloaddition, 911
1,3-Disubstituted ureas, 1
1,4-Dihydropyridine derivatives, 401
1,4-Dioxane, 565, 1263
1-Butyl-3-methylimidazolium hexafluorophosphate, 39
2-(2-Chloro-6-fluorophenyl)-1H-imidazo[4,5-f][1,10]phenanthroline, 669
2-(Vinyloxy)benzaldehyde, 911
2,2'-Dipyridylamine, 637
2-Aminobenzothiazole, 303
2-Aminothiazole, 303
2-Chloro-4-nitrophenol, 1249
2D NMR spectroscopy, 843
2-Formylphenoxy acetic acid, 1505
2-Naphthol, 1051
2-Nitrophenol, 1249
2-*tert*-Butyl-*p*-cresol, 1337
3-(2-Arylhydrazone)acetylacetone, 953
3-Cyano-4-methylcoumarin, 527
3-Cyanocoumarin, 527
4-Chlorophenol, 977
4-Nitrophenol, 1249
5-Arylidenethiazolidine-2,4-dione, 115
A isoenzyme isolation and characterization, 1491
ABC index, 557
Acetaminophen, 389
Acid modified bentonite, 1249
Acidophiles, 729
Acrylate, 759
Active chlorine, 677
Activity, 325
Acute oral toxicity, 1085
Acute toxicity, 1111
Additives, 587
Adsorption affinity, 253
Adsorption mechanism, 481
Adsorption, 743, 1309
Agricultural practices, 101
Aldehydes, 1051
Altan-benzenoid hydrocarbon, 1515
Alumina nanofillers, 1295
Amine ligands, 1199
Amine, 1
Amino acid, 421
Ammonia, 345
Ammonium ions, 345
Anatase, 1099
ANFIS, 1323
Anion exchange, 1037
Anion exchangers, 1037
Annulene, 1515
Anthocyanins, 11
Antibacterial activity, 125, 277, 793, 1505
Antibacterial, 115

- Antibiotics, 1363
Anticancer investigations, 1
Antifungal activity, 125, 277, 793
Antifungal, 115
Anti-inflammatory activity, 779
Anti-inflammatory, 389
Anti-influenza activity, 517
Antimicrobial activity, 435, 1347, 1363
Antimicrobial properties, 421
Antimicrobial, 1059
Antioxidant activity, 283, 517, 1363,
1347, 1469
Antioxidants, 1059
Antiproliferative activity, 1235
Antitumor, 1059
Antiviral activity, 283
Apricot brandy, 1223
Aqueous media, 1309
Aqueous methanol, 225
Aqueous suspension, 1155
Arachidonic acid release assay, 779
Argazol blue BFBR, 361
Aries River, 1019
Arsenic(III), 815
Arsenic(V), 815
Article submission, 1561
Artificial neural network, 965
Aryl-furan, 1469
Arylpiperazines, 277
Arylthiophene, 1469
Atom–bond connectivity index, 557
Atomic absorption spectrometer, 495
- Bacillus*, 411
Bacterial amylase, 411
Bagasse effluent, 613
Bagasse wastewater, 897
BBD design, 897
Beaten cheese, 927
Benzoid hydrocarbon, 1515
Benzimidazoles, 277
Benzothiazoles, 89
Bidentate, 793
Binary mixture, 77, 341, 565, 707, 1263
Binuclear complexes, 421
Bioaccumulation, 1445
Bio-adsorption, 495
- Bioinformatics study, 133
Bioleaching, 729
Biological activity, 1213
Biomarkers, 597
Biometal ions, 1395
Biomining, 729
Biopolymer, 897
Blend uniformity analysis, 331
BSCF, 1141
- Cadmium(II), 669
Cadmium, 1379
Camphor-10-sulfonic acid, 1051
Capture ELISA, 1477
Carbon cryogel, 481
Carbon dioxide, 1141
Cationic complexes, 1413
Cd(II), 1505
Cefotaxime sodium, 579
Celestite, 345
Cellulosolytic bacteria, 1075
Centaurea, 1355
Cephalosporins, 579
Ceramide, 627
Ceratophyllum demersum, 1445
Cetyltrimethylammonium bromide, 1545
Chalcone, 435
Characterization, 649
Charge transfer, 911
Chemical binding, 533
Chemical constituents, 1213
Chemical reaction, 469
Chemical reactivity descriptors, 435
Chemical shifts, 1405
Chemometric analysis, 331
Chemometrics, 1279
Chitosan, 743, 897
Chlorate, 677
Chlorophyll, 689
Chlorsulfuron, 1075
Chondroitin sulfate, 199
Cis/trans isomerism, 805
Citrus wilsonii leaves, 1213
Clinoptilolite, 1309
Clonazepam, 445
Clopyralid, 481
Cluster analysis, 265

- Cnicin, 1355
CO₂ capture, 719
Coagulation, 897
Cobalt, 63
Commentary on the article, 1571
Complete active space self-consistent field, 167
Complex, 199, 793, 689
Concentration gradient, 469
Condensation, 1051
Conductometric investigation, 1421
Conductometric study, 1263
Constant volume chamber, 881
Contact toxicity, 1213
Contamination index, 1019
Controlled release, 579, 659
Conversion, 345
Copper(II) complexes, 291, 1235
Copper, 63, 689, 1037
Correlation, 265
Coumarin derivatives, 1405
Coumarins, 435
Creating illustrations, 1561
Creating tables, 1561
Crystal structure, 291, 637, 669
Crystal, 993
Crystallization, 587
CT-DNA, 151
Cu(II) complex, 545, 1537
Cu(II) ions, 565
Cu²⁺, 1263
Current efficiency, 677
Cyanobacteria, 185
Cyclic conjugation, 1515
Cyclic voltammetry, 1379
Cyclocondensation, 759
Cyclohexane-1,3-dione, 303
Cyclohexyl derivatives, 1199
Cylindrical diffusion, 993
Cytosolic phospholipase A₂ enzyme, 779
Cytotoxicity, 649, 953
- D2 receptor, 175, 1461
Danube River, 1169
Degree-based topological index, 557
Densities, 77
Density functional theory, 1405
- Density, 445, 719
Desulfurization, 1099
Deviations of refractive indices, 77
DFT, 435, 911
Diabetes mellitus type 1, 1491
Diameter, 587
Diastereoselective, 627
Diazepam, 445
Diimine–dioxime ligand, 545
Diketone, 421
Dimethyl adipate, 77
Dimethyl phthalate, 77
Dinuclear Cu(II) complexes, 1235
Disordered regions, 133
Dispersive liquid–liquid microextraction, 63
Donor–acceptor effects, 1523
Dosage forms, 53
Dye degradation, 1127
Dye-doped PMMA, 867
Dyes, 253
Dynamic mechanical analysis, 1295
- Egg wastewater, 743
Electrocatalysis, 325
Electrocatalytic gas evolving reactions, 325
Electrocatalytic, 1379
Electrochemical determination, 39
Electrocoagulation, 613
Electrodeposition, 993
Electrolysis, 1523
Electrospinning, 867
Electrospray ionization, 689
Energy efficiency, 325
Enzymatic activity, 1075
Enzyme inhibition, 1
Essential oil, 1213
Esters, 77
Ethers, 77
Ethylenediamine, 1199
Excess molar volumes, 77, 707
Expanded graphite, 1155
Experimental design, 743
- Famotidine, 53
Fast response, 211

- Fe(III)-sepiolite, 815
Fe/TiO₂, 977
Fe₂(OH)₂⁴⁺ dimer, 941
Fertilizer, 659
First-order kinetics, 361
Flavonoid content, 779
Flavonoids, 11, 1355
Flower-like, 1007
Fluorescence, 867
Flux of heavy metal, 379
Formaldehyde, 481
Four-component coupling, 401
Fragment electrophicity analysis, 911
Free radical scavenging activity, 11, 779
FT-IR spectra, 637
Fumigant toxicity, 1213
Functional domains, 133
Functionalized nanocomposite, 1249
Fused pyrimidine, 1059
- Garner's aldehyde, 627
Gas oil, 1099
Gas/particle partition coefficient, 965
Gastrodin, 1205
GC, 1279
GC-MS, 927
Geographical origin, 927
Geographical regions, 927
Geosorbents, 89
Gibbs energy, 829
Glycine, 719
Glycosylation, 1205
GPCR, 175
Graph theory, 805
- Harmonic index, 557
Heat flux, 469
Heat generation, 469
Heavy metals, 495, 689, 1169, 1445
Hemodynamic, 1085
Herbicides, 1075
Hetero Diels-Alder reaction, 911
Heteroarylazo derivatives, 303
Heterogeneous catalysis, 361
Heterogeneous photo-Fenton, 977
Heterogeneous catalyst, 401
HMgN⁻, 167
- HNMe⁻, 167
HOMO, 435
Homology modeling, 175
HPLC, 579
HPLC-UV, 63
HPMC-SDS interaction, 457
Human caveolin proteins, 133
Human urine, 53
Hydride bonds, 1413
Hydrochloric acid, 1037
Hydrogels, 211
Hydroxy-N-[2-(4-phenyl-piperazinyl-1-yl)ethyl]phenyl]-nicotinamides, 1461
Hypertension, 1085
Hypochlorite, 1523
Hysteresis, 89
- Immobilization, 533
Influenza antivirals, 517
Infrared, 1413
Inorganic salts, 829
Instructions for authors, 1561
Interaction, 199
Interactions, 1461, 1545
Intramolecular reaction, 911
Iocyanate, 283
Iodine, 527
Ionic liquid based Schiff base, 1537
Ionic liquid, sulfonated, 1337
Ionic liquids, 829
Ionic strength, 829
Ionization chamber, 313
Iron electrode, 613
Iron oxide nanoparticles, 1155
Iron(III), 941
Isatin derivatives, 1347
Isatin, 953
Isocyanate, 1
Isotherm, 495
Isotherms, 743
Isothiocyanate, 283
- Jouyban-Acree Model, 445
- Kinetics, 345, 495, 743
Knudsen cell, 313

- Lake Robule, 729, 1571, 1575
 Lake Skadar, 1445
 Langmuir–Hinshelwood model, 1127
 Lansoprazole, 39
 Lead(II), 199
 Lead, 993
 Libreville, 101
 Limiting diffusion current, 677
 Linear sweep voltammetry, 199
 Li_nF clusters, 313
 Li_nI clusters, 313
 Liquid mixture viscosity, 341
 Luminescence, 669
 LUMO, 435
- Macrocyclic complexes, 1235
 Maize, 659
 Malononitrile, 527
 Mannich reaction, 125
 Mass spectrometer, 313
 Mass spectrometry, 689
 Mass transfer, 469
 MCF7, 125
 MCM-41, 25
 Mechanical behavior, 1295
 Melt electrospinning, 587
 Mesoporosity, 481
 Mesoporous silica, 533
 Mesoporous, 25
 Metal availability, 1185
 Metal complexes, 303
 Metal concentration, 265
 Metal mobility, 101
 Metallocycle, 545
 Metals, 1019
 Metformin hydrochloride, 331
 Methanol, 25, 565, 1263
 Mg:Ca ratio, 1185
 Micelle, 25
 Michael reaction, 767
 Microbial diversity, 729
 Microfiber, 587
 Micro–mesopores, 1007
 Microorganisms, 1075
 Micropolar fluid, 469
 Microwave chemistry, 759
 Microwave irradiation, 527
- Microwave, 921
 Microwave-assisted, 977
 Migration, 1395
 Mining, 1019
 Mixed convection, 469
 Mixed ligand complexes, 941
 Mixed ligands, 953
 Mixed micelles, 1421
 Mixing rules, 707
 Model development, 613, 897
 Model-based prediction, 1323
 Modeling, 1323
 Molecular distance-edge vector index, 965
 Molecular docking, 175
 Molecular graph, 805, 1515
 Molecular modelling, 1545
 Monophenolase activity, 517
 Montmorillonite K-10 clay, 921
 Morphological patterns, 325
 Morphology, 325, 993
 Multi-component solutions, 253
 Multiconfiguration second-order perturbation theory, 167
 Multi-dimensional simulation, 881
 Multiple linear regressions, 1111
 Multivariate statistical analysis, 101, 1019, 1279
 Mushroom tyrosinase, 517
 MWCNTs, 39
- N,N*-Dimethylpiperazine, 283
N-acetyl-3,5-disubstituted-pyrazoline, 1469
N-Acetyl- β -D-glucosaminidase, 1491
 Nano catalyst, 1099
 Nano-architecture, 1007
 Nanocomposite, 1099, 1155
 Nanofibers, 867
 Nanoindentation, 1295
 Natural zeolite, 1309
 Neryl acetate, 1213
N-Hydroxycinnamoylamides, 517
 Nickel, 63
 Nicotine solutions, 829
 NIR spectroscopy, 331
 Nitrate, 1309

- Nitric oxide donor, 389
Nitrobenzenes, 1111
NMR spectra, 1405
Nonionic surfactants, 1421
Non-polar polymer, 587
Non-target screening, 1169
Novi Sad, 265
 NO_x , 1323
Nozaki–Hiyama–Kishi reaction, 627
N-salicylidene-2-aminophenol, 1263
Nuclease activity, 151
Nutrients, 1223
- Octaazamacrocycle, 1235
Octahedral geometry, 421
Ohmic heating, 469
Oil pollutants, 597
Olea europaea L., 1085
One-pot, 401, 527
Optimization, 361, 613
Organic matter, 597
Organic pollutants, 1169
Organic solvents, 707
Organobentonites, 253
Organocatalysis, 767
Organochromium reagent, 627
Oxidative stress, 1085
Oxide-modified zeolite, 1309
Oxygen, 1141
Ozone, 1323
Ozone, surface concentration of, 1323
- Partial molar volumes, 225
Particle shape, 1295
PAT, 331
PCBs, 965
p-cresol, 1337
PEG, 445
Penta-O-acetyl- β -D-glucopyranose, 1205
Perovskite, 1141
pH influence, 815
pH measurements, 829
Phenolic acids, 11
Phenolic content, 779
Phenomenological soot model, 881
Phosphodiesterase, 1
Photocatalysis, 1127, 1433
- Phycoerythrin, 185
Physical adsorption, 533
PLS, 331
PMMA matrix composites, 1295
Poly(dimethylsiloxane), 843
Poly(*N*-isopropylacrylamide), 211
Polycarboxylato ligands, 941
Polyhydroquinoline derivatives, 401
Polymer composite, 1295
Polymer, 669
Polymer–surfactant interaction, 457
Polyoxometalates, 1379
Polyoxometals, 1099
Polypropylene, 587
Post treatment, 613
Potassium carbonate, 719
Powder blending, 331
Prediction, 707
Production increase, 659
Prokupac, 11
Proline derivatives, 767
Propylene glycol, 445
Pseudomonas aeruginosa, 495
Pyridone, 1523
Pyridone, 759
Pyridoxal S-methylisothiosemicarbazone, 291
Pyrimidine, 421
Pyrimidopyrimidines, 1059
Pyromellitic acid, 637
- QSPR, 965
QTAIM, 1413
Quality control, 1279
Quantitative structure–activity relationship, 1111
Quantum chemistry, 1405
Quinazoline-4(3*H*)-one Schiff base, 1505
- R2edda-type esters, 649
Radical bromination, 1205
Raman spectroscopy, 1155
Rational correlation models, 341
Raw starch digestion, 411
Reactive Blue 52, 977
Reactive Orange 16, 1433
Refractive index, 707, 719

- Repellency, 1213
 Reproductive organs, 1363
 Residual organic solvents, 1279
 Resorcinol, 481
 Response surface methodology, 361
 Rheological properties, 457
 River sediment, 1019
 River sediment, 379
 River systems, 1169
Robinia pseudoacacia, 1363
 RTIL, 39
 Ruthenium(II) complexes, 151
- Salicylaldehyde thiosemicarbazone, 565
 Salicylaldehyde, 1537
 Salophen, 63
 Salting-out effects, 829
 Sava River, 379, 1169
 Scanning electron microscope (SEM), 993
 Schiff base, 151, 421, 793, 1347
 Schorl, 361
 Scientific paper, 1561
Sclerochloa dura, 779
 Screening analyses, 1169
 Seawater, 1127
 SECM, 325
 Second extracellular loop, 1461
 Secondary complications, 1491
 Secondary metabolites, 1355
 Secondary structure, 133
 Sediment quality guideline, 1019
 Sediment re-suspension, 379
 Sediments, 597
 Selectivity, 649
 Sequential extraction, 1185
 Serpentine soil, 1185
 Shear-induced structure formation, 457
 Shear-thickening, 457
 Shear-thinning, 457
 Sialylation level, 1491
 Simultaneous adsorption, 253
 Snow, 265
 Sodium dodecyl sulfate, 1421
 Sodium stearate, 587
 Soil chemistry, dynamics of, 1185
 Soil fertility, 101
 Soil, 1075, 1395
- Solubility, 445
 Solvent-free, 401, 921
 Soot emission, 881
 Sorption, 89, 815, 1249
 Soy protein, 211
 Spartan 10 software, 1405
 Spectra, 291
 Spectral data, 303
 Spectrophotometric study, 1263
 Spectroscopy, 125
 Spherical diffusion, 993
 Sphingosine, 627
 SPME, 927
 Spontaneously hypertensive rat, 1085
 Stability constants, 565, 1263
 Stability, 325
 State of pollution, 1169
 Stearic acid, 587
 Strontium carbonate, 345
 Strontium sulfate, 345
 Structural characterization, 843
 Sunflower, 659
 Supramolecular aggregates, 545
 Surface properties, 843
 Surfactant/polymer interactions, 1421
 SW 982 fibroblast-like synoviocytes, 779
 Synthesis, 1, 125, 1433
- Tailings, 729
 Teeth, 1395
 TEM, 1155
 Temperature, 495
 Template removal, 25
tert-Butylation, 1337
 Tetrahydrofuran, 77
Tetrahymena pyriformis, 1111
 TG/DSC analysis, 637
 Thermal analysis, 291, 1235
 Thermal lens spectroscopy, 185
 Thermal properties, 843
 Thermoplastic polyurethanes, 843
 Thiazoles, 1059
 Time resolved laser induced fluorescence spectroscopy, 185
 Tisza River, 597
 Titanium dioxide, 1127
 TLC, 411

- Tobacco mosaic virus, 283
Topological index, 557
Total π -electron energy, 805
Toxic metals, 253
Toxicity, 389
Traditional Chinese medicine, 1205
Traffic, 265
Transition metal, 421, 953
Translocation, 1445
Transport, 89
T-RFLP, 729
Tribolium castaneum (Herbst), 1213
Trichinella spiralis, 1477
Trichinella-specific IgE, 1477
- UHPLC, 689
Ultra trace graphite electrode, 53
Ultramafic, 1185
Ultrasound, 25
UV–Vis spectroscopy, 1523
- Validation, 1279
Vaporization, 313
Vegetative organs, 1363
Viscosity B-coefficients, 225
Viscosity deviations, 77
Viscosity, 719
VOCs, 1323
Volatile compounds, 927, 1223
Volatile impurities, 1279
Voltammetric determination, 53
Voltammetry, 793
- Wastewater sorbent, 1249
Wastewater, 361
Water media, 1395
Water pollutants, 253
Water samples, 63
Water, 481
Weak interactions, 545
Wells–Dawson, 1379
Wine, 11
- Xanthene, 1051
Xanthine, 389
- Yeast strain, 1223
- Zinc, 63, 689, 1037
Zn(II), 1505
ZnO powders, 1433
ZnS nanoparticles, 1545
Zymogram, 411
- α -Haloketone, 115
 β -Amino- α,β -unsaturated esters, 921
 β -Amino- α,β -unsaturated ketones, 921
 β -Cyclodextrin–polyurethane polymer, 401
 β -Glucosidase, 533
 β -Glucuronidase, 1
 γ -Al₂O₃, 1007
 γ -Terpinene, 1213