



Subject index

- 1,2,3-Triazole, 917
1,2,4-Triazole, 1013
1,3,4-Oxadiazole, 1013
1,3-Benzoxazines, 213
1,3-Diaryl-2-propene-1-one derivatives, 153
1,3-Dipolar-cycloaddition, 901
¹⁹F-NMR spectroscopy, 845
¹H NMR, 1249
2-Pyrrolidinone, 1039
3D nucleation/growth, 1075
3D-QSAR, 469
3-Glycidyloxypropyltrimethoxy silane, 831
3-Nitrobenzaldehyde, 1013
3-Oxo- α,β -unsaturated steroids, 459

ACE inhibitors, 469
Acidic leaching, 1113
Acidity, 983
Acrylonitrile, 591
Activated carbon, 983
Adamantine derivatives, 625
Adhesion potential, 533
Adsorbent, 767
Adsorption isotherm, 327
Adsorption, 429, 699
AFM, 407
Agricultural wastes, 521
Agrochemicals, 673
AHC, 1271
Alkali rare-earth silicates, 663
Alumina monolith, 615
Aluminum hydrides, 299
Amantadine, 625
Ambipolar, 171
AMES, 639
Amine-based additive, 739

Amino acids, 625
Amorphous calcium phosphate, 555
Amphoricarpolides, 1177
Analytical toxicology, 77
Anode, 1
Antibacterial activity, 125, 139, 1291
Antibacterial assay, 257
Antibiofilm, 1291
Anticancer activity, 153
Anticandidal activity, 1291
Anti-epileptic, 51
Antifungal compounds, 639
Anti-inflammatory, 1139
Antimalarials, 115
Antimicrobial activity, 153, 459, 901, 1139, 1249
Antimicrobial properties, 1103
Antioxidant activity, 257, 603
Antitryptic activity, 139
Antiviral, 1139
Apiaceae (Umbelliferae), 1241
Apricot shell, 521
Aquapentacyanoruthenate (II) ion, 507
Arsenic adsorption, 195
Artemisia absinthium L., 1259
Artemisia alba Turra, 1259
Artemisia annua L., 1259
Artemisia scoparia Waldst. et Kit., 1259
Artemisia vulgaris L., 1259
Artificial neural networks, 355
Ash removal, 1113
Azahetarenes, 901
Azeotropic mixture, 685

Barium titanium oxide system, 415
BCS class II, 51
Benzimidazole, 859

- Benzocoumarin, 971
Bibenzyls, 1139
Binding constant, 483
Bioaccumulation factor, 927
Biodiesel, 739
Bioethanol, 651
Biological activities, 213
Biomaterials, 1103
Bis-bibenzyls, 1139, 1249
Bogovina coal, 1113
Boron-doped diamond electrode, 711
Boscalid, 247
Bromobenzyl derivatives, 115
Bryophytes, 1139

Calibration equations, 507
Candida albicans, 639
Carboxyl groups, 885
Carotenoids, 367
Cascade reaction, 1053
Catalyst deactivation, 283
Catalytic site, 781
Catechin, 367
Cathode, 1
CBMN assay, 809
Chelate complexes, 393
Chemical composition, 257, 885
Chemical reaction, 699
Chemometrics, 1281
Chemosystematics, 1177
Chitosan oligolactate, 555
CHQF, 971
Chromatography, 1195
Chronopotentiometry, 299
Co-deposition, 1075
Coking, 283
Colorimetric test with tetrazolium salts, 555
Composites, 591
Condensation reaction, 1053
Conductivity, 725
Constant-current electrolysis, 585
Cooling, 103
Co-precipitation, 415
Corona discharge, 615
Correlation analysis, 927
Cotinus coggygria, 1195
Coumarin glycosides, 603
CPCM, 955

Cross-coupling reaction, 269
Crystal structure, 663
Crystal violet, 327
Crystallinity index, 521
Cyanide poisoning, 77
Cyclic voltammetry, 711, 1023
Cyclization, 1305
Cycloaddition, 1053
CYP enzymes, 639
Cytotoxicity, 153, 459, 555, 1291, 1139

Deep eutectic solvents, 547
Degree of a vertex, 445
Delayed pet-coke, 983
Density functional theory, 171
Density, 91
Descriptors, 381, 673
DFT method, 165, 955, 971
Diffuse function basis set, 165
Diffusivity, 341
Dimethylformamide, 1013
Discriminative potential, 445
Dislocation density, 571
Dispersion coefficient, 1089
Distribution of distances, 781
Diterpenoid, 917, 1229
DMSO solvent, 165
Drinking water treatment, 195
Drug delivery, 1103
Dual phase state, 1067
Dye exclusion test, 555

Efficiency, 313
Electrochemistry, 407
Electrosynthesis, 585
Element composition, 927
Emission factors, 753
Endophytes, 125
Energy carrier, 299
Energy efficiency, 103
Energy recovery, 313
Ensemble multiple linear regression analysis, 685
Epicatechin, 367
Escins, 603
Esterification, 983
Euphorbiaceae, 1219
Evidence, 77
Extraction, 25, 603

- Extracts, 1249
- Finite element method, 103
- First principle, 283
- Fluorescence quenching, 859
- Fluorescence, 901, 971
- Flux synthesis, 663
- Fomitopsis betulina*, 809
- Forensic chemistry, 77
- Formative evaluation, 997
- Fractal dimension, 819
- FT-IR spectra, 941
- Fullerene, 1023
- Gas separation, 341, 871
- GC/MS, 257, 355, 1281, 1259
- Genetic algorithm, 63, 673
- Graph invariants, 445
- Graphene, 699
- Green chemistry, 547, 1039
- H_2O_2 scavenging activity, 139
- Heavy metals, 767
- Hemicelluloses, 885
- Heterogenous catalysis, 955
- Heterovalent substitution, 845
- Hopping mechanism, 171
- Hydrazones, 459
- Hydrocarbon volume, 533
- Hydrodistillation, 355, 1281
- Hydrogen sorption, 299
- Hydrogen, 299
- ICP-OES, 1271
- Imine–enamine form, 39
- Impedance spectroscopy, 845
- In silico* drug discovery, 125
- In vitro* solubility, 571
- Inhibition of albumin denaturation, 139
- In-service teacher training, 997
- Interactions, 561
- Interfacial tension, 725
- Inula*, 1229
- Iron oxide nanoparticles, 181
- Iron(II), iron(III) oxide, 1039
- Isocoumarins, 639
- Isotherm, 429
- Kinetics, 429, 819, 1075
- Langmuir isotherm, 195, 885
- Lanostane triterpenoid derivatives, 809
- Lattice strain, 51, 571
- Lead and tin fluorides, 845
- Ligand substitution reaction, 507
- Lignin, 885
- Low-cost adsorbent, 195
- Ljoskavac, 1271
- Macro-and microelements, 1271
- Malachite green, 327
- Manganese chloride, 91
- Manganese hypophosphite, 91
- Marchantin A, 1249
- MATH test, 533
- MCM-41, 871
- MCR, 1039
- MDR, 1219
- Membrane, 341
- Memorized ant colony optimization, 685
- Metabolomics, 1177
- Metal complexes, 153
- Metal salt, 591
- Methylene blue, 429
- Microbial fuel cell, 1
- Microcapsules, 25
- Microcrystalline cellulose, 521
- Micronucleus, 809
- Microwave synthesis, 139
- MIF, 561
- Mixture descriptors, 685
- Modelling, 725
- Modified electrode, 495
- Molar absorptivity, 483
- Molecular descriptors, 63, 445
- Molecular docking, 469, 795
- Molecular modeling, 269
- Molecular simplex, 625
- Molten salts, 1075
- Mucilage cactus, 25
- Multi-component reaction, 547
- Multi-oxide catalysts, 615
- Multiple linear regression, 63
- Myrtus communis*, 1195
- Nano-composite catalyst, 1039
- Nanomaterials, 1103

- Natural amino acids, 381
Natural products, 1305
New drug design, 469
N-heteroaromatic Schiff base, 393
Non-covalent interactions, 393

o-aminophenol, 39
Olea europaea, 1195
Olefins, 283
Onset of action, 51
Open-code program, 1089
OPLS, 1195
Optimization, 651
Opuntia ficus indica, 25
Organic acids, 753
Organic semiconductor, 171
Organic synthesis, 1305
Organic titanate, 415
Origanum onites, 1195
Origanum vulgare, 1195
Oxidation of carbon monoxide, 615
Oxidation stability, 739
Oxidizing agents leaching, 1113
Oxygen binding study, 941

P. aeruginosa, 1205
Parallel accumulation serial fragmentation ion mobility mass spectrometer, 1205
PCA, 753, 1229, 1195
Pd-PEPPSI-IPr^{DtBu-An} synthesis, 247
Peak overlapping area, 1089
Peak processing, 1089
Pentacle, 561
Pesticide, 699
PET, 971
P-glycoprotein, 1219
Pharmaceutical formulation, 711
Pharmaceutical samples analysis, 507
Phase separation time, 533
Phases transition, 1067
Phenanthrolinium-*N*-ylides, 901
Phenolic antioxidants, 739
Phenolic compounds, 603
Phenolics, 367, 495
Phenylpropanoids, 1241
Photocatalytic activity, 327
Physicochemical properties, 445
Phytochemical stability, 367

Phytochemistry, 1177
Plasticization, 341
PLS, 561
Pollutants, 767
Pollution sources, 753
Poly(vinyl chloride), 591
Polyacetylenes, 1241
Polymer, 725
Polymeric nanocomposites, 1
Polymolybdate phosphate, 299
Poplar propolis, 1205
Prediction, 63
Predictive models, 445
Propofol, 711
Protecting groups, 1305
Protein stability, 795
Protein structure, 795
Protein-ligand interaction, 795
Proton conductivity, 831
Proton exchange membrane fuel cell, 1, 831
Pseudo-second-order, 885
PSf, 871
Pulsed arc discharge, 181
Pyranoside, 1305

QSAR study, 625
QSPR modelling, 685
QSRR, 381
Quinoline, 115, 859
Quorum sensing, 1205

Rancimat induction period, 739
Rate-determining step, 283
Reactions, 213
Remediation, 767
Removal, 699
Response surface methodology, 651
Rimantadine, 625
Ring closure, 585

Schiff base Pd(II) derivative, 269
Schreinemakers method, 91
Scission, 283
Selenium substitution, 171
Selenylation, 585
SEM/EDS, 407, 1291
Sequential injection analysis, 1089
Sesquiterpene lactones, 1229

- Silane coupling agent, 871
 Silica hydrogel, 819
 Silicates, 103
 Single crystal X-ray diffraction, 393, 663
 Single-oxide catalysts, 615
 SiO_2/PPA , 139
 Slags, 103
 Solid electrolytes, 845
 Solubility, 341
 Solvent evaporation method, 51
 Solvent exchange, 819
 Sonochemical coprecipitation, 181
 Spectral analysis, 795
 Spectral data, 39
 Spectroscopic characterization, 269
Sporosarcina pasteurii, 533
 Square–planar complexes, 459
 Stabilization of the SOD proteins, 781
 Standard Gibbs energy, 483
 Statistical methods, 673
 Stepwise leaching, 1113
 Steroidal anti inflammatory drug, 571
 Strain, 103
 Structural modification, 917
 Structural property, 381
 Substituents' flexibility, 1023
 Sulfur assimilation pathway, 561
 Sulfur removal, 1113
 Summative evaluation, 997
 Surface functionalization, 181
 Surface modification, 871
 Suzuki reaction, 247
 SWCNT/water-based nanofluid, 313
 Synthesis, 213
- Tandem mass spectrometry, 1205
 Ternary system, 91
 Terpenoids, 1139, 1219
 Test methods, 407
 Tetradentate coordination, 39
 Theoretical study, 1053
 Thermal resistance, 313
 Thermodynamic parameters, 941
 Thermogravimetric analysis, 269
 Thin layer chromatography, 381
 Time-series, 753
 TiO_2 , 955
 TNP, 859
 TPCT, 313
- Translocation factor, 927
 Triterpenoids, 1229
 Turbidity, 725
 UV-light, 955
 UV–Vis spectra, 941
 Viscosity, 725
 Volatiles, 1291
 Vortex time, 533
 Walnut shell, 521
 Waste bread, 651
 Waste brewer's yeast, 651
 Wastewater, 767
 Wet-impregnation, 615
 X-ray diffraction, 415
 Yeast, 367
 ZrO_2 , 495
 β -amido-aryl carbonyl compounds, 547
 β -hematin inhibitory activity, 115