

- α -diazocarbonyl compound; 540
 1D and 2D NMR; 491
 1,2-dioxetanes; 626
 1,4-dioxane; 748
 3 β -O-acyloleanoic acids; 24
 8-quinolinol; 599
- ab initio*; 473
 absolute error regression; 5
 acid activation; 345
 acidity; 583
 adsorption; 473, 612
 adsorption isotherms; 324
 air analysis; 443
 alcohols; 10
 aldehyde; 443
 algaroba; 460
 alkenes; 637
 aluminates; 773
 aluminosilicate; 761
 alternant hydrocarbon; 416, 719
 amine; 799
 amperometric biosensor; 77
 amperometric detection; 795
 ancient ceramics; 724
 anesthetics; 311
 animal blood plasma; 191
 Annonaceae; 185
 antarctic limpets; 756
 anthocyanins; 408
 antidiabetic potential; 783
 antiviral; 206
 aquatic humic substances; 339
 archaeometry; 724
 aromatic nitration; 381
Artemia salina; 185
Aspergillus niger; 307
 atmospheric carboxylic acids; 60
 atomic absorption spectrometry; 220, 404
- backpropagation; 864
 Baker's yeast; 893
 basic concepts; 901
 bass analysis; 790
 Berreman effect; 99
 bidentate phosphines; 786
 bioanalytical; 77
 bioassay; 768
 biocatalyse; 893
 biocatalysis; 672
 biodiversity; 153
 bioelectrochemistry; 112
 biogenic and anthropogenic emissions; 60
 biological fluids; 68
 biomass; 247
 bioreduction; 893
 biosensor; 200
 biotransformations; 672
 bleaching earth; 345
 block copolymers; 47
- brass analysis; 790
 brines; 180
- ¹³C NMR; 131
 cabbage; 768
 cactus; 307
 cadmium; 743
 cadmium and monolayer; 465
 calcium; 180
 calibration; 5
 calibration function; 374
 capillary electrophoresis; 363
 carbofuran; 768
 carbohydrate; 516, 905
 carbonyl; 299
 carbonyl compounds; 10
 catalysts; 885
 catalytic combustion of methane; 167
 catalytic reactions; 87
 chalcone; 604
 characterization; 808
 chemical characterization; 449
 chemical education; 557, 905
 Chemical graph theory; 416
 chemiluminescence; 626
 chemistry; 568
 Chemistry curriculum; 262
 chemometrics; 331
 chitin; 13
 chitosan; 13
 chromium(VI); 331
 cyclic voltammetry; 856
 CIEEL (Chemically Initiated Electron Exchange Luminescence); 626
Cissus sicyoides; 783
 cleistanthane diterpenoids; 619
 cloud point extraction; 87
 CO oxidation; 55
 co-processing; 424
 coastal peat; 18
 cohalogenation; 637
 combinatorial chemistry; 236
 communication skills; 143
 commutator; 689
 computers; 676
 conformational analysis; 480
 conformational equilibrium; 604
 contact angle; 612
 contamination; 27
 copper; 588
 copper(I); 786
 copper(II); 592
 copper and lead; 734
 copper and zinc competition; 18
 copper-ceria catalysts; 55
 copper promoted ceria catalysts; 55
 coprecipitation; 773
 coprostanol; 37
 correction methods; 531
 cosmetic; 748
 cyclic voltammetry; 473
- cyclopentadienyl tin(II) derivatives; 526
 cyclopropanation; 540
- D. melanogaster*; 768
 degree of freedom; 693
 dehydronucleoside; 206
 delignification; 819
 density functional theory; 501
 deoxynucleoside; 206
 detergents; 700
 development of societies; 153
 DFT; 473
 diazo compound; 540
 differential pulse polarography; 790
 differential scanning calorimetry; 460
 diphenylphosphide anion; 133
 disjoint; 719
 divinylbenzene based resins; 808
 drug design; 846
 drug development; 236
 dynamic headspace; 176
Duguetia glabriuscula; 185
- educational experiments; 901
 electro-oxidation; 43
 electroanalysis; 112
 electrochemical quartz crystal microbalance; 465
 electrolytic precipitation; 743
 electron impact; 311
 electron ionization; 315
 electrophilic addition; 637
 electrophilic substitution; 381
 electron transfer; 381
 electrosynthesis of hydrogen peroxide; 252
 environmental analysis; 77
 environmental chemistry; 419
 environmental protection; 243
 equilibrium pK; 331
 equipartition principle; 693
Eriope blanchetii; 730
 esters; 10
 ethanol; 43
 evolving factor analysis; 331
 EXAFS; 453
 experimental design; 167
 extraction methods; 68
- faecal contamination; 37
 fermentation; 449
 ferroelectric liquid crystals; 354
 first law; 563
 flame atomic absorption spectrophotometry; 374, 756
 flavonoids; 783
 flow analysis; 191, 689, 795
 flow injection analysis; 188
 flow spectrophotometry; 743
 forarco; 898
 foto-Fenton; 188
 Fourier transform; 874

fractionation; 339
 fructose; 905
 FT-ICR; 412
 fullerenes; 898
 fusel oils; 10

 galactose oxidase; 592
 gas; 286
 gas chromatography; 220, 554
 GC/MSD; 554
 gel permeation chromatography; 13
 gender bias; 281
 George Thomson; 286
Gustavia augusta L.; 439
 globalization and jobmarket; 135
 glutathione; 112
 graphite tube flow cell; 404
 ground state; 719
 Guanabara Bay; 37

 hardness; 501
 headspace solid-phase microextraction; 748
 heat capacity; 693
 heavy metals; 18, 324
 herbicides; 751
 heterogeneous catalysis; 885
 history of science; 709
 honey; 516
 Hückel theory; 416
 humic acids; 131
 humic substances; 131
 hydraulic high pressure nebulization; 180
 hydrogen; 473
 hydrogen adsorption-desorption; 856
 hydrogen-ion concentrations; 5
 hydrogen peroxide; 188, 252
 hydrogen storage alloys; 243
 hydrophobic effect; 646
 hydrotropy; 47
 hydroxamic acids; 583

 Imbrie Q-mode factor analysis; 331
 imidazolium cation; 830
 industrial enzymes; 672
 industrial research; 568
 infrared; 94, 99
 injector; 689
 inorganic cations; 363
 inorganic phosphates; 700
 insertion reaction; 540
 instrumental signal denoising; 874
 interaction potential; 838
 intercalation; 799
 interferences; 531
 internal energy; 563
 iodine; 637
 ion-exchange; 799
 ion-selective electrodes; 120
 ionic liquids; 830
 iridium oxide; 43
 iron determination; 195

 iron(III) determination; 790
 Irving Langmuir; 568
 isocyanide; 299

 kaolinite; 761
 kaurane diterpenes; 616
 kaurenoic acids; 24
 kinetics of oxygen dissolution; 252
 Kramers-Krönig analysis; 94

 Labiatae; 491
 laboratory; 424
 lamellar; 799
 Lamiaceae; 730
 landfill leachate; 554
 layer-by-layer films; 228
 layered materials; 761
 leguminous plant urease source; 188
 leprosy; 683
 lignans; 730
 lignin models; 480
 lithiumdiphenylphosphide; 133
 luminescence; 453

 magnesium; 180
 mainstream science; 709
 management; 424
 management of chemical industries; 135
 marginal science; 709
 mass spectrometry; 412
 mechanism of response; 120
 medicinal chemistry; 105, 147, 153
Mentha villosa; 491
 metal hexacyanoferrate; 200
 metal-hydride batteries; 243
 metal ions; 339
 micellar media; 87
 microwave oven; 901
 modified electrodes; 200, 695
 molecular-dynamics simulation; 838
 molecular sieves; 885
 monoterpene; 616
 Mössbauer; 299
 multiple linear regression; 658
 multiply-charged ions of argon; 315
 multivariate calibration; 864

 nanotubes; 898
 natural indicators; 408
 natural networks; 864
 natural products; 105
 nectar; 516
 neural networks; 864
 neutron activation analysis; 724
 nitro-derivatives; 599
 non-alternant hydrocarbon; 416
 nuclear magnetic resonance; 47
 nucleoside; 206

 orange wine; 449
 organic-inorganic hybrids; 453

 organic matter; 257
 organic reactions; 646
 organometallic tin(II) compounds; 526
 organosilylphosphines; 133
 oxidative stress; 112
 oxoaporphine alkaloids; 185
 oxygen reduction; 252

 paper chromatography; 700
 PC cluster; 676
 pentacyclic triterpenes; 439
 pentacyclic triterpenoids; 491
 peracids; 819
 peripheral science; 709
 permanent modifier; 404
 peroxide decomposition; 626
 pesticides; 27
 petrochemical industry; 247
 petroleum derivatives; 176
 pharmaceutical industry; 105
 pharmaceuticals; 147
Phaseolus vulgaris L.; 408
 phenolic compounds; 77
 photochemical reactions products; 60
 photodegradation; 257, 303
 photofragmentation; 311
 physical-chemical properties; 830
 phytoterapics; 147
 pinch valve; 689
 platinum single crystal electrodes; 856
 PM3 calculations; 719
 PMO analyses; 719
 pneumatic pump; 795
 poly(ethylenimine); 588
 poly(propylene oxide-b-ethylene oxide); 47
 polychlorinated biphenyls; 390
 polyions; 228
 polymers; 303, 846
 porous structure; 808
 Portland cement; 195
 potentiometric titration; 5
 potentiometry; 120
 preconcentration; 180
 professional profile; 135
 pulp bleaching; 819
 pyrethroids; 172
 pyrite; 612

 quantitative structure-activity relationships; 658
 quinones; 751

 radial basis functions; 864
 rare earth oxysulfides; 320
 rational thermodynamics; 563
 reactivity indexes; 501
 rebirth of an old drug; 683
 recycling; 419
 refractory; 778
 remediation; 390

residues; 419, 424
rice husk ash; 778
river sediment; 734, 756
Rhododendron simsii; 408

sample preparation; 68
self-assembly; 228
self modeling curve resolution; 331
semiempirical; 583
semiempirical methods; 480
seventeenth-century chemistry; 286
SIA/FAAS; 588
silica; 778
slurry; 756
small molecule libraries; 236
smectic Brazilian clays; 345
smectitic C* phases; 354
softness; 501
sol-gel; 773
solid-phase extraction; 172
solid-phase microextraction; 172
solid-phase organic synthesis; 846
solid state NMR; 526
solid substrate fermentation; 307
solvent effect; 480
SPE; 554
speciation; 220, 734
spectral data; 604
spectrophotometric Cr(VI) determination; 399
spectroscopic studies; 592
specular reflection; 94
steel samples; 399
steroids; 439

strategies; 281
strontium; 180
structural correlations; 838
student evasion; 262
substitution of petroleum; 247
sucrose; 905
sulfide; 473
supercritical fluid; 509
supercritical fluid chromatography; 509
supported palladium catalyst; 167
surface atomic structure; 856
surfactants; 47
suspended droplet; 443
synchrotron radiation; 303
synthetic methods; 354

teacher formation; 557
temporal thermodynamics; 563
Tessier; 734
tetrahydroborate; 786
textbooks; 557
thalidomide; 683
theoretical chemistry; 676
thermal behavior; 599
thermal decomposition; 320
thermodynamic definitions; 509
thermogravimetry; 320, 460
thin films; 99
thin layer cell; 399
Tibouchina granulosa; 408
time-of-flight mass spectrometer; 315
titanium determination; 195
titanium hydrogenphosphate; 799
toxicity; 390

trace metal speciation; 257
treatment; 424
triterpenes; 730
tropical soils; 324

ultrathin films; 228
uncertainty calculation; 374
undergraduate evaluation; 262
underpotential deposition; 465
urea determination; 191

validation of QSAR models; 658
Vellozia aff. *carunculares*; 619
Velloziaceae; 619
Vitaceae; 783
vitreous carbon; 252

water; 27, 646
water analysis; 172, 176
wavelet transform; 874
website; 412
Wedelia paludosa; 24
weed; 751
women in science; 281
writing assignments; 143
writing to learn; 143

X-ray crystallography; 616
X-ray fluorescence; 531

ylide; 540

zeolites; 885