

## SUBJECT INDEX

- AAP-CI 403  
Acarbose 731  
 $\pi$ -Acceptors 975  
Acetate kinase 891  
Acetylpolyamine 891  
Acetylputrescine 891  
 $\alpha_1$ -Acid glycoprotein 1047  
Acidity constants 861  
Acyclovir 249  
Acyloxyamine amidohydrolase 891  
Adsorptive stripping voltammetry 67  
Albumin 1047  
Alkaloid derivatives 817  
Alkyl sulphonate modifiers 747  
All-*trans*-3-hydroxyretinoic acid 763  
Alumina support 497  
Amantadine 411  
Amine modifiers 747  
Aminoalkylpyridine anticonvulsant 403  
Analysis 105, 117, 597  
Antibacterial activity 219  
Antibiotic 145  
Anticariogenic agent 219  
Antimicrobial agent 219  
Anhydrotetracycline 841  
AOT microemulsions 585  
 $\beta$ -Asarone 227  
 $\alpha$ -Asarone 227  
Ascorbyl palmitate 213  
Aspirin 873  
Assay 383, 579  
Astemizole 985  
Atomic absorption spectrometry 1021  
Atropine 817  
  
Barbiturates 927  
Barbituric acid derivatives 505  
Benzalkonium 117  
Benzodiazepines 667, 681  
  
BENZYLAMINE OPEE 597  
Bile salt 913  
Binding constant 165  
Binding constants 573  
Bioanalytical method 67  
Biological samples 993  
Biospecific probes 555  
 $\beta$ -blockers 573, 747  
Bronchodilator 585  
  
Calibration transfer 35  
Cannabinoids 947  
Capillary electrophoresis 241, 411, 421, 471, 615, 731, 787, 801, 809, 817, 829, 913, 1047  
Capsule quality control 699  
Capsules 271  
Carbon paste electrodes 75, 535  
Catecholamine 879, 885  
Cathodic adsorptive stripping voltammetry 1005  
 $\alpha$ -CD 275  
Cefixime 895  
Cefotaxime 579, 895  
Ceftazidime 241  
Ceftriaxone 895  
Cefuroxime 93  
Cellulose tris-(3,5-dimethylphenylcarbamate) 605  
Cephalexin 271  
Cephalosporin 93  
Cephalosporins 975  
Cerium 359  
 $^{13}\text{C}_2$ -guanidinoacetate 659  
Charge transfer 975  
Chelate 565  
Chemiluminescence coupled enzymatic reactions 555  
Chemiluminescence imaging 555  
Chemiluminescence immunohistochemistry 555  
Chemiluminescence in situ hybridization 555  
Chemometrics 721  
Chiral liquid chromatography 171

- Chiral separation 1047  
Chiral stationary phase 171  
Chiral stationary phases 605  
Cholesterol–silica stationary phase 721  
Chromatographic methods 319  
Chromatography 667  
Chromatography mass spectrometry 461  
Cilostazol 441  
Circular dichroism 127  
13-*cis*-3-Hydroxyretinoic acid 763  
Clenbuterol 639  
Clinical toxicology 753  
Clonazepam 453  
<sup>13</sup>C-NMR 1057  
Cocaine 117  
Codeine 645  
Coeliac disease 255  
Column liquid chromatography 699  
Column switching 763  
Compatibility 151, 373  
Complexation 1057  
Complex formation 179  
Complex stoichiometry 165  
Component proportion approach 57  
Composition evaluation index 651  
Conductometrical technique 281  
Conductometric method 83  
Conformational analysis 947  
Continuous ambulatory peritoneal dialysis 1029  
Continuous ultrafiltration 849  
Control values 659  
Copper sulphate 1021  
Cortisone 913  
Cosmetic cream 213  
Cosmetics 105  
Cosolvent mixture optimisation 57  
Cu(II) tubular electrode 527  
2-Cyanoacetamide 993  
Cyclic voltammetry 75, 535  
Cyclodextrin 913  
 $\beta$ -Cyclodextrin 605  
Cyclodextrin inclusion complexes 165  
Cys<sub>34</sub> modified HAS 127
- Deamidation 421  
Deglymidodrine 171  
Degradation 335  
Degradation products 939  
Densitometry 227, 271, 895  
Derivative spectrophotometry 145, 579, 699  
Derivative UV spectroscopy 235  
Derivatization 411  
Desacetyl rifampicin 1013  
Determination 715, 873  
Determination in human plasma 249  
Dextromethorphan 829  
Dextrose (5%) 373  
Dialysis fluid 1029  
Differential scanning calorimetry 151  
Diode laser 411  
Direct compression 919  
Direct spectrophotometry 699  
Disintegrant 919  
Dissociation constants 137  
Dog 461  
Dosage forms 145  
Drug impurities 383  
Drug metabolism 325  
Drugs 263, 597  
DSC 275
- Electrothermal and flame atomic absorption spectrometry 1029  
ELISA 255  
Enantiomers 615  
Enantioseparation 801  
Endogenous metabolite 67  
Enzymatic analysis 891  
Eosin 985, 1021  
Epiandrotetracycline 841  
Epimerization 1  
Epinephrine 879, 885  
Epitetracycline 841  
Essential oil analysis 651  
Estradiol and estriol determination 187  
Ethacrynic acid 127  
Evaporative light scattering detector 731  
Excipients 151  
Experimental design 43, 67, 287  
Experimental mixture design 57  
External quality assessment 753  
Extraction 927  
Extraction methods 623
- Factor selection 43  
Far-red label 411  
Fenofibrate 383  
FIA 93, 527  
Fibre optic module 35  
Fingerprinting 651

- Fleroxacin 145, 861  
Flow injection analysis 963  
Flunarizine hydrochloride 985  
Fluorescence 565  
Fluorescence detection 187, 193, 411, 699, 841  
Fluorimetry 993  
Fluoroimmunoassay 267  
Fluorometry 985  
Fluorescence enhancement solution 267  
Fluoxetine 193, 699  
Fotemustine 373  
Fractional factorial design 963  
Frontal analysis 1047  
FTIR 275
- GAMT-deficiency 659  
Gas chromatography-mass selective detector 651  
Gas-chromatography-Mass spectrometry 645  
Gas chromatography-mass spectrometry 227  
GC-MS 659  
GC-MS 681  
GC-MS analysis 639  
Gentamicin 689  
Gliadin 255  
Gliclazide 275  
Glycine 963  
Glycopeptide 545  
Gradient elution 441  
Guanidinoacetate 659  
Guinea pig uterus 305  
Gyrase inhibitors 849
- H-D exchange 325  
Headspace analysis 623  
High-performance liquid chromatography 441  
High performance liquid chromatography 1047  
High performance size exclusion chromatography 909  
High throughput screening 555  
<sup>1</sup>H-NMR 1057  
Homologous series 927  
Hot-stage microscopy 151  
HPLC 213, 373, 383, 919, 927, 939  
HPLC analysis 403  
HPLC with spectrofluorimetric detection 249  
HPTLC 895  
Human  $\alpha$ 1-acid glycoprotein 171  
Human serum 471  
Human urines 201  
Hydrocortisone 913  
Hydrogen peroxide biosensor 105  
Hydrolysis 1  
Hydrophilic gel 909  
Hydrophobic compounds 787  
Hydroxypropyl- $\beta$ -cyclodextrin 179
- Ibuprofen 151  
Imidazole antimycotics 235  
Imidazolidinylurea 213  
Impurity profile 707  
Impurity profiles 511  
Impurity qualification 707  
Increased sensitivity 527  
Indinavir 347  
Indomethacin sodium 1005  
Indomethacin capsule 1005  
Inert matrices 281  
Instrument standardisation 35  
Intermediate precision 67  
Ion-complexation 565  
Ion exchange resin 885  
Ionic modifiers 605  
Ion-pairing 747  
Ion-selective electrodes 93  
ISFETs 117  
Isotachophoretic separation 779  
Isradipine 335
- Joint regression model 21
- KIMS 681  
Kynurenic acid 67
- LC-MS 707  
LC/MS 335  
LC/MS/MS 1037  
Lead(II) 985  
Lecithin 597  
Level selection 43  
Lidocaine 117  
Linear solvation-energy relationships (LSER) 721  
Linear sweep voltammetry 75, 535  
Liquid 461  
Liquid chromatography 1, 193, 689, 731, 841  
Liquid chromatography-mass spectrometry 325  
Liquid chromatography-tandem mass spectrometry 347  
Liver microsomes 441  
Luminescence determination 263

- Maesa lanceolata* 739  
MALDI-TOF/MS 545  
Mass spectrometry 127  
Mathematical data analysis 15  
Mathematically independent variable approach 57  
Matrix effect 347  
Mazipredone 511  
Medicinal plants 305  
MEKC 241  
2-Mercapto-1,3,4-thiadiazole 137  
2-Mercapto-1,3,4-thiadiazole 83  
Mercapto-1,3,4-thiadiazoles 75, 535  
Metabolism 461  
Metabolites 829, 1037  
Metabolites characterization (EI-MS) 201  
Metal ions 1057  
Method validation 43, 287, 801, 901  
Methyl and hydroxypropyl- $\beta$ -cyclodextrin complexes 901  
Methylene blue 957  
Mg ascorbyl phosphate 213  
Micellar electrokinetic capillary chromatography 809  
Micellar electrokinetic chromatography 471  
Microemulsion electrokinetic chromatography 787  
Micro-purification 545  
Midodrine 171  
Molecular modelling 721, 947  
Molecular parameters 497  
Morphine 645  
Morphine hydrochloride 281  
Multidimensional 707  
Multivariate calibration 21, 35  
  
Naltrexone hydrochloride 281  
Nandrolone esters 511  
Naproxen 801  
Nasal solutions 715  
n-Donors 975  
Near-infrared spectroscopy 35  
Nestorone™ 511  
Nimesulide 201  
NMR 383  
NMR spectroscopy 947  
Non-systemic antacids 565  
Norepinephrine 879, 885  
Norethisterone 511  
Norfloxacin 565, 867, 919  
Norfluoxetine 193  
Norgestrel 511  
  
NSAID 201  
  
Octanol 667  
On-line coupling 707  
Ovomucoid 605  
Oxidation 1  
3-Oxo steroids 511  
  
Paraben mixture 213  
Parent ion 1037  
Pareto plots 479  
Peptide 421  
Perindopril 1021  
Pharmaceutical analysis 957  
Pharmaceutical assay 429  
Pharmaceutical creams 235  
Pharmaceutical dosage units 487  
Pharmaceutical formulations 105, 779, 999  
Pharmaceutical preparations 93  
Pharmaceuticals 241, 335, 359, 787, 809, 817, 993  
Pharmacokinetics study of suspension forms 249  
Phenolphthalein 165  
Photostability 867  
Photo-stability 919  
Photostable fluorescence emission 585  
Physostigmine 939  
Pirlindole 605  
pK<sub>a</sub> 137  
Plackett-Burman experimental design 479  
Plant extract 319, 817  
Plasma 367, 829  
Polysorbate 20 715  
Polyvinyl alcohol 421  
Poppy capsules 645  
Porous graphitized carbon column 15, 505  
Potassium chloride 281  
Potentiometric method 137  
Potentiometric sensor 957  
Potentiometry 93, 861  
Prednisolone 471, 511, 913  
Prednisone 913  
Prenalterol hydrochloride 993  
Product ion 1037  
Prolamins 255  
Protamine sulphate 909  
Protein binding 127, 849, 1047  
Protein sequencing 545  
Pulsed electrochemical detection 689  
PVC bags 373  
Pyridine 241

- Quality control 707  
Quantification 895  
Quantitation 67  
Quantitative determination 319  
Quantitative structure–retention relationships (QSRR) 721  
Quinolone antimicrobials 1057
- Radioimmunoassays 681  
Ramipril 1021  
Rat 927  
Reference standard composite 429  
Regression techniques 21  
Related compounds 383  
Related impurities 241  
Relative retention indices 651  
Residual solvent analysis 623  
Retinoids 763  
Reversed-phase chromatography 901  
Reversed phase chromatography 1013  
Reversed-phase high-performance liquid chromatography (RP HPLC) 721  
Reversed-phase HPLC 739  
Reversed-phase ion-pair high-performance liquid chromatography 999  
Reversed-phase liquid chromatography 753  
Reversed phase liquid chromatography 367  
Reversed-phase liquid chromatography 187, 429  
Reverse-phase HPLC 715  
Reverse-phase liquid chromatography 201  
Rifampicin 1013  
Rifapentine 1013  
Ritodrine 359  
Roasted coffee 219  
Robustness testing 479  
RP-HPLC 421, 747  
Ruggedness testing 43  
Ruggedness test strategy 287
- Sagamicin 689  
Salicylic acid 873  
Salmeterol 461  
Sample loading station 545  
Sample preparation 235  
Sample pretreatment 471  
Scanning electron microscopy 151  
Scopolamine 817  
Scott equation 165  
Screening 681  
SDS micelles 573
- Secalin 255  
Second-derivative UV spectrophotometry 873  
Semipreparative chromatography 739  
Sensitized luminescence 267  
Separation identification 319  
Separation selectivities 615  
Serum 145, 1005  
SIM 227  
Simultaneous determination 1013  
Single-dose preparations 487  
Smallbore HPLC 453  
Sodium bismuthate 879  
Sodium periodate 885  
Software 287  
Solid-phase extraction 193  
Solid phase microextraction 623  
Solubility 275, 573  
Spectrofluorimetry 359, 573, 867  
Spectrophotometric method 137  
Spectrophotometry 359, 861, 879, 985, 1021  
SPME 667  
Stability 373, 565, 939  
Stability indicating 453  
Stable isotope dilution 659  
Steroidal drugs 179  
Steroid derivatives 15  
Steroid drugs 497  
Structure-retention relationship 505  
Sulphate conjugate 461  
Sunepitron 429  
Supercritical fluid extraction 235, 305
- Tablet dosage form 453  
Tandem mass spectrometry 325  
TDX 367  
Temperature control 739  
Temperature effects 165  
Terbium and europium ions 263  
Terbium complex 267  
Terfenadine 985  
Ternary complex 985, 1021  
Tetracon 96 83  
Tetracycline 841  
Tetracyclines 527  
Tetrahydrofuran 165  
Theophylline solubility 57  
Therapeutic drug monitoring 753  
Thermodynamic parameters 165  
Thin layer chromatography 227, 271  
Thin-layer chromatography-UV densitometry 645

- Thion-thiolic tautometry 137  
TIC 227  
Tissues 367, 927  
Titrations 117  
Titrations curves 83  
Tolfenamic acid 901  
Trace elements 1029  
Tramadol 779  
Transdermal and oral administration 829  
Transdermal delivery system 187  
Tricyclic antidepressants 753  
Triterpenoid saponins 739  
Tropane alkaloids 817  
Turbo ion spray 347
- Ultraviolet spectrophotometry 867  
Uniformity of content 487  
Uniformity of mass 487  
Uniplex 963
- Urinary levels of metabolites 201  
Urine 67, 639, 1005  
Useless variable elimination 21  
Uterotonic bioassay 305  
UV detection 699  
UV-detection 471  
UV-vis absorption spectroscopy 165
- Validation 67, 731, 809, 927  
Validation study 281  
Vancomycin 367  
Variability 487  
Vesnarinone 1037  
Vorozole 479
- Water-soluble vitamins 999  
Wide pore 739
- XRD 275