

---

## Author Index Volumes 251–272

Author Index Vols. 26–50 see Vol. 50  
Author Index Vols. 51–100 see Vol. 100  
Author Index Vols. 101–150 see Vol. 150  
Author Index Vols. 151–200 see Vol. 200  
Author Index Vols. 201–250 see Vol. 250

*The volume numbers are printed in italics*

- Ajayaghosh A, George SJ, Schenning APHJ (2005) Hydrogen-Bonded Assemblies of Dyes and Extended  $\pi$ -Conjugated Systems. *258*: 83–118
- Albert M, Fensterbank L, Lacôte E, Malacria M (2006) Tandem Radical Reactions. *264*: 1–62
- Alberto R (2005) New Organometallic Technetium Complexes for Radiopharmaceutical Imaging. *252*: 1–44
- Alegret S, see Pividori MI (2005) *260*: 1–36
- Alfaro JA, see Schuman B (2007) *272*: 217–258
- Amabilino DB, Veciana J (2006) Supramolecular Chiral Functional Materials. *265*: 253–302
- Anderson CJ, see Li WP (2005) *252*: 179–192
- Anslyn EV, see Houk RJT (2005) *255*: 199–229
- Appukkuttan P, Van der Eycken E (2006) Microwave-Assisted Natural Product Chemistry. *266*: 1–47
- Araki K, Yoshikawa I (2005) Nucleobase-Containing Gelators. *256*: 133–165
- Armitage BA (2005) Cyanine Dye–DNA Interactions: Intercalation, Groove Binding and Aggregation. *253*: 55–76
- Arya DP (2005) Aminoglycoside–Nucleic Acid Interactions: The Case for Neomycin. *253*: 149–178
- Bailly C, see Dias N (2005) *253*: 89–108
- Balaban TS, Tamiaki H, Holzwarth AR (2005) Chlorins Programmed for Self-Assembly. *258*: 1–38
- Balzani V, Credi A, Ferrer B, Silvi S, Venturi M (2005) Artificial Molecular Motors and Machines: Design Principles and Prototype Systems. *262*: 1–27
- Barbieri CM, see Pilch DS (2005) *253*: 179–204
- Barchuk A, see Daasbjerg K (2006) *263*: 39–70
- Bayly SR, see Beer PD (2005) *255*: 125–162
- Beer PD, Bayly SR (2005) Anion Sensing by Metal-Based Receptors. *255*: 125–162
- Bertini L, Bruschi M, de Gioia L, Fantucci P, Greco C, Zampella G (2007) Quantum Chemical Investigations of Reaction Paths of Metalloenzymes and Biomimetic Models – The Hydrogenase Example. *268*: 1–46
- Bier FF, see Heise C (2005) *261*: 1–25
- Blum LJ, see Marquette CA (2005) *261*: 113–129
- Boiteau L, see Pascal R (2005) *259*: 69–122
- Bolhuis PG, see Dellago C (2007) *268*: 291–317
- Borovkov VV, Inoue Y (2006) Supramolecular Chirogenesis in Host–Guest Systems Containing Porphyrinoids. *265*: 89–146

- Boschi A, Duatti A, Uccelli L (2005) Development of Technetium-99m and Rhenium-188 Radiopharmaceuticals Containing a Terminal Metal–Nitrido Multiple Bond for Diagnosis and Therapy. *252*: 85–115
- Braga D, D'Addario D, Giaffreda SL, Maini L, Polito M, Grepioni F (2005) Intra-Solid and Inter-Solid Reactions of Molecular Crystals: a Green Route to Crystal Engineering. *254*: 71–94
- Brebion F, see Crich D (2006) *263*: 1–38
- Brizard A, Oda R, Huc I (2005) Chirality Effects in Self-assembled Fibrillar Networks. *256*: 167–218
- Bruce IJ, see del Campo A (2005) *260*: 77–111
- Bruschi M, see Bertini L (2007) *268*: 1–46
- del Campo A, Bruce IJ (2005) Substrate Patterning and Activation Strategies for DNA Chip Fabrication. *260*: 77–111
- Carney CK, Harry SR, Sewell SL, Wright DW (2007) Detoxification Biomaterials. *270*: 155–185
- Chaires JB (2005) Structural Selectivity of Drug–Nucleic Acid Interactions Probed by Competition Dialysis. *253*: 33–53
- Chiorboli C, Indelli MT, Scandola F (2005) Photoinduced Electron/Energy Transfer Across Molecular Bridges in Binuclear Metal Complexes. *257*: 63–102
- Cölfen H (2007) Bio-inspired Mineralization Using Hydrophilic Polymers. *271*: 1–77
- Collin J-P, Heitz V, Sauvage J-P (2005) Transition-Metal-Complexed Catenanes and Rotaxanes in Motion: Towards Molecular Machines. *262*: 29–62
- Collyer SD, see Davis F (2005) *255*: 97–124
- Commeyras A, see Pascal R (2005) *259*: 69–122
- Coquerel G (2007) Preferential Crystallization. *269*: 1–51
- Correia JDG, see Santos I (2005) *252*: 45–84
- Costanzo G, see Saladino R (2005) *259*: 29–68
- Credi A, see Balzani V (2005) *262*: 1–27
- Crestini C, see Saladino R (2005) *259*: 29–68
- Crich D, Brebion F, Suk D-H (2006) Generation of Alkene Radical Cations by Heterolysis of  $\beta$ -Substituted Radicals: Mechanism, Stereochemistry, and Applications in Synthesis. *263*: 1–38
- Cuerva JM, Justicia J, Oller-López JL, Oltra JE (2006)  $\text{Cp}_2\text{TiCl}$  in Natural Product Synthesis. *264*: 63–92
- Daasbjerg K, Svith H, Grimme S, Gerenkamp M, Mück-Lichtenfeld C, Gansäuer A, Barchuk A (2006) The Mechanism of Epoxide Opening through Electron Transfer: Experiment and Theory in Concert. *263*: 39–70
- D'Addario D, see Braga D (2005) *254*: 71–94
- Danishefsky SJ, see Warren JD (2007) *267*: 109–141
- Darmency V, Renaud P (2006) Tin-Free Radical Reactions Mediated by Organoboron Compounds. *263*: 71–106
- Davis F, Collyer SD, Higson SPJ (2005) The Construction and Operation of Anion Sensors: Current Status and Future Perspectives. *255*: 97–124
- Deamer DW, Dworkin JP (2005) Chemistry and Physics of Primitive Membranes. *259*: 1–27
- Dellago C, Bolhuis PG (2007) Transition Path Sampling Simulations of Biological Systems. *268*: 291–317
- Deng J-Y, see Zhang X-E (2005) *261*: 169–190
- Dervan PB, Poulin-Kerstien AT, Fechter EJ, Edelson BS (2005) Regulation of Gene Expression by Synthetic DNA-Binding Ligands. *253*: 1–31

- Dias N, Vezin H, Lansiaux A, Bailly C (2005) Topoisomerase Inhibitors of Marine Origin and Their Potential Use as Anticancer Agents. *253*: 89–108
- DiMauro E, see Saladino R (2005) *259*: 29–68
- Dittrich M, Yu J, Schulten K (2007) PcrA Helicase, a Molecular Motor Studied from the Electronic to the Functional Level. *268*: 319–347
- Dobrawa R, see You C-C (2005) *258*: 39–82
- Du Q, Larsson O, Swerdlow H, Liang Z (2005) DNA Immobilization: Silanized Nucleic Acids and Nanoprinting. *261*: 45–61
- Duatti A, see Boschi A (2005) *252*: 85–115
- Dworkin JP, see Deamer DW (2005) *259*: 1–27
- Edelson BS, see Dervan PB (2005) *253*: 1–31
- Edwards DS, see Liu S (2005) *252*: 193–216
- Ernst K-H (2006) Supramolecular Surface Chirality. *265*: 209–252
- Ersmark K, see Wannberg J (2006) *266*: 167–197
- Escudé C, Sun J-S (2005) DNA Major Groove Binders: Triple Helix-Forming Oligonucleotides, Triple Helix-Specific DNA Ligands and Cleaving Agents. *253*: 109–148
- Evans SV, see Schuman B (2007) *272*: 217–258
- Van der Eycken E, see Appukkuttan P (2006) *266*: 1–47
- Fages F, Vögtle F, Žinić M (2005) Systematic Design of Amide- and Urea-Type Gelators with Tailored Properties. *256*: 77–131
- Fages F, see Žinić M (2005) *256*: 39–76
- Faigl F, Schindler J, Fogassy E (2007) Advantages of Structural Similarities of the Reactants in Optical Resolution Processes. *269*: 133–157
- Fantucci P, see Bertini L (2007) *268*: 1–46
- Fechter EJ, see Dervan PB (2005) *253*: 1–31
- Fensterbank L, see Albert M (2006) *264*: 1–62
- Fernández JM, see Moonen NNP (2005) *262*: 99–132
- Fernando C, see Szathmáry E (2005) *259*: 167–211
- Ferrer B, see Balzani V (2005) *262*: 1–27
- De Feyter S, De Schryver F (2005) Two-Dimensional Dye Assemblies on Surfaces Studied by Scanning Tunneling Microscopy. *258*: 205–255
- Fischer D, Geyer A (2007) NMR Analysis of Bioprotective Sugars: Sucrose and Oligomeric (1→2)- $\alpha$ -D-glucofuranosyl-(1→2)- $\beta$ -D-fructofuranosides. *272*: 169–186
- Flood AH, see Moonen NNP (2005) *262*: 99–132
- Fogassy E, see Faigl F (2007) *269*: 133–157
- Fricke M, Volkmer D (2007) Crystallization of Calcium Carbonate Beneath Insoluble Monolayers: Suitable Models of Mineral–Matrix Interactions in Biomineralization? *270*: 1–41
- Fujimoto D, see Tamura R (2007) *269*: 53–82
- Fujiwara S-i, Kambe N (2005) Thio-, Seleno-, and Telluro-Carboxylic Acid Esters. *251*: 87–140
- Gansäuer A, see Daasbjerg K (2006) *263*: 39–70
- Garcia-Garibay MA, see Karlen SD (2005) *262*: 179–227
- Gelinck GH, see Grozema FC (2005) *257*: 135–164
- Geng X, see Warren JD (2007) *267*: 109–141
- George SJ, see Ajayaghosh A (2005) *258*: 83–118
- Grenkamp M, see Daasbjerg K (2006) *263*: 39–70
- Geyer A, see Fischer D (2007) *272*: 169–186

- Giaffreda SL, see Braga D (2005) 254: 71–94
- de Gioia L, see Bertini L (2007) 268: 1–46
- Greco C, see Bertini L (2007) 268: 1–46
- Grepioni F, see Braga D (2005) 254: 71–94
- Grimme S, see Daasbjerg K (2006) 263: 39–70
- Grozema FC, Siebbeles LDA, Gelinck GH, Warman JM (2005) The Opto-Electronic Properties of Isolated Phenylenevinylene Molecular Wires. 257: 135–164
- Guisseppi-Elie A, Lingerfelt L (2005) Impedimetric Detection of DNA Hybridization: Towards Near-Patient DNA Diagnostics. 260: 161–186
- Di Giusto DA, King GC (2005) Special-Purpose Modifications and Immobilized Functional Nucleic Acids for Biomolecular Interactions. 261: 131–168
- Haase C, Seitz O (2007) Chemical Synthesis of Glycopeptides. 267: 1–36
- Hansen SG, Skrydstrup T (2006) Modification of Amino Acids, Peptides, and Carbohydrates through Radical Chemistry. 264: 135–162
- Harmer NJ (2007) The Fibroblast Growth Factor (FGF) – FGF Receptor Complex: Progress Towards the Physiological State. 272: 83–116
- Harry SR, see Carney CK (2007) 270: 155–185
- Heise C, Bier FF (2005) Immobilization of DNA on Microarrays. 261: 1–25
- Heitz V, see Collin J-P (2005) 262: 29–62
- Herrmann C, Reiher M (2007) First-Principles Approach to Vibrational Spectroscopy of Biomolecules. 268: 85–132
- Higson SPJ, see Davis F (2005) 255: 97–124
- Hirayama N, see Sakai K (2007) 269: 233–271
- Hirst AR, Smith DK (2005) Dendritic Gelators. 256: 237–273
- Holzwarth AR, see Balaban TS (2005) 258: 1–38
- Homans SW (2007) Dynamics and Thermodynamics of Ligand–Protein Interactions. 272: 51–82
- Houk RJT, Tobey SL, Anslyn EV (2005) Abiotic Guanidinium Receptors for Anion Molecular Recognition and Sensing. 255: 199–229
- Huc I, see Brizard A (2005) 256: 167–218
- Ihmels H, Otto D (2005) Intercalation of Organic Dye Molecules into Double-Stranded DNA – General Principles and Recent Developments. 258: 161–204
- Imai H (2007) Self-Organized Formation of Hierarchical Structures. 270: 43–72
- Indelli MT, see Chiorboli C (2005) 257: 63–102
- Inoue Y, see Borovkov VV (2006) 265: 89–146
- Ishii A, Nakayama J (2005) Carbodithioic Acid Esters. 251: 181–225
- Ishii A, Nakayama J (2005) Carboselenothioic and Carbodiselenoic Acid Derivatives and Related Compounds. 251: 227–246
- Ishi-i T, Shinkai S (2005) Dye-Based Organogels: Stimuli-Responsive Soft Materials Based on One-Dimensional Self-Assembling Aromatic Dyes. 258: 119–160
- James DK, Tour JM (2005) Molecular Wires. 257: 33–62
- Jones W, see Trask AV (2005) 254: 41–70
- Justicia J, see Cuerva JM (2006) 264: 63–92
- Kambe N, see Fujiwara S-i (2005) 251: 87–140
- Kano N, Kawashima T (2005) Dithiocarboxylic Acid Salts of Group 1–17 Elements (Except for Carbon). 251: 141–180

- Kappe CO, see Kreamsner JM (2006) 266: 233–278
- Kaptein B, see Kellogg RM (2007) 269: 159–197
- Karlen SD, Garcia-Garibay MA (2005) Amphidynamic Crystals: Structural Blueprints for Molecular Machines. 262: 179–227
- Kato S, Niyomura O (2005) Group 1–17 Element (Except Carbon) Derivatives of Thio-, Seleno- and Telluro-Carboxylic Acids. 251: 19–85
- Kato S, see Niyomura O (2005) 251: 1–12
- Kato T, Mizoshita N, Moriyama M, Kitamura T (2005) Gelation of Liquid Crystals with Self-Assembled Fibers. 256: 219–236
- Kaul M, see Pilch DS (2005) 253: 179–204
- Kaupp G (2005) Organic Solid-State Reactions with 100% Yield. 254: 95–183
- Kawasaki T, see Okahata Y (2005) 260: 57–75
- Kawashima T, see Kano N (2005) 251: 141–180
- Kay ER, Leigh DA (2005) Hydrogen Bond-Assembled Synthetic Molecular Motors and Machines. 262: 133–177
- Kellogg RM, Kaptein B, Vries TR (2007) Dutch Resolution of Racemates and the Roles of Solid Solution Formation and Nucleation Inhibition. 269: 159–197
- Kessler H, see Weide T (2007) 272: 1–50
- King GC, see Di Giusto DA (2005) 261: 131–168
- Kirchner B, see Thar J (2007) 268: 133–171
- Kitamura T, see Kato T (2005) 256: 219–236
- Kniep R, Simon P (2007) Fluorapatite-Gelatine-Nanocomposites: Self-Organized Morphogenesis, Real Structure and Relations to Natural Hard Materials. 270: 73–125
- Koenig BW (2007) Residual Dipolar Couplings Report on the Active Conformation of Rhodopsin-Bound Protein Fragments. 272: 187–216
- Komatsu K (2005) The Mechanochemical Solid-State Reaction of Fullerenes. 254: 185–206
- Kreamsner JM, Stadler A, Kappe CO (2006) The Scale-Up of Microwave-Assisted Organic Synthesis. 266: 233–278
- Kriegisch V, Lambert C (2005) Self-Assembled Monolayers of Chromophores on Gold Surfaces. 258: 257–313
- Lacôte E, see Albert M (2006) 264: 1–62
- Lahav M, see Weissbuch I (2005) 259: 123–165
- Lambert C, see Kriegisch V (2005) 258: 257–313
- Lansiaux A, see Dias N (2005) 253: 89–108
- LaPlante SR (2007) Exploiting Ligand and Receptor Adaptability in Rational Drug Design Using Dynamics and Structure-Based Strategies. 272: 259–296
- Larhed M, see Nilsson P (2006) 266: 103–144
- Larhed M, see Wannberg J (2006) 266: 167–197
- Larsson O, see Du Q (2005) 261: 45–61
- Leigh DA, Pérez EM (2006) Dynamic Chirality: Molecular Shuttles and Motors. 265: 185–208
- Leigh DA, see Kay ER (2005) 262: 133–177
- Leiserowitz L, see Weissbuch I (2005) 259: 123–165
- Lhoták P (2005) Anion Receptors Based on Calixarenes. 255: 65–95
- Li WP, Meyer LA, Anderson CJ (2005) Radiopharmaceuticals for Positron Emission Tomography Imaging of Somatostatin Receptor Positive Tumors. 252: 179–192
- Liang Z, see Du Q (2005) 261: 45–61
- Lingerfelt L, see Guiseppi-Elie A (2005) 260: 161–186
- Liu S (2005) 6-Hydrazinonicotinamide Derivatives as Bifunctional Coupling Agents for  $^{99m}\text{Tc}$ -Labeling of Small Biomolecules. 252: 117–153

- Liu S, Robinson SP, Edwards DS (2005) Radiolabeled Integrin  $\alpha_v\beta_3$  Antagonists as Radiopharmaceuticals for Tumor Radiotherapy. *252*: 193–216
- Liu XY (2005) Gelation with Small Molecules: from Formation Mechanism to Nanostructure Architecture. *256*: 1–37
- Luderer F, Walschus U (2005) Immobilization of Oligonucleotides for Biochemical Sensing by Self-Assembled Monolayers: Thiol–Organic Bonding on Gold and Silanization on Silica Surfaces. *260*: 37–56
- Maeda K, Yashima E (2006) Dynamic Helical Structures: Detection and Amplification of Chirality. *265*: 47–88
- Magnera TF, Michl J (2005) Altitudinal Surface-Mounted Molecular Rotors. *262*: 63–97
- Maini L, see Braga D (2005) *254*: 71–94
- Malacria M, see Albert M (2006) *264*: 1–62
- Marquette CA, Blum LJ (2005) Beads Arraying and Beads Used in DNA Chips. *261*: 113–129
- Mascini M, see Palchetti I (2005) *261*: 27–43
- Matsumoto A (2005) Reactions of 1,3-Diene Compounds in the Crystalline State. *254*: 263–305
- McGhee AM, Procter DJ (2006) Radical Chemistry on Solid Support. *264*: 93–134
- Meyer B, Möller H (2007) Conformation of Glycopeptides and Glycoproteins. *267*: 187–251
- Meyer LA, see Li WP (2005) *252*: 179–192
- Michl J, see Magnera TF (2005) *262*: 63–97
- Milea JS, see Smith CL (2005) *261*: 63–90
- Mizoshita N, see Kato T (2005) *256*: 219–236
- Modlinger A, see Weide T (2007) *272*: 1–50
- Möller H, see Meyer B (2007) *267*: 187–251
- Moonen NNP, Flood AH, Fernández JM, Stoddart JF (2005) Towards a Rational Design of Molecular Switches and Sensors from their Basic Building Blocks. *262*: 99–132
- Moriyama M, see Kato T (2005) *256*: 219–236
- Murai T (2005) Thio-, Seleno-, Telluro-Amides. *251*: 247–272
- Murakami H (2007) From Racemates to Single Enantiomers – Chiral Synthetic Drugs over the last 20 Years. *269*: 273–299
- Mutule I, see Suna E (2006) *266*: 49–101
- Naka K (2007) Delayed Action of Synthetic Polymers for Controlled Mineralization of Calcium Carbonate. *271*: 119–154
- Nakayama J, see Ishii A (2005) *251*: 181–225
- Nakayama J, see Ishii A (2005) *251*: 227–246
- Narayanan S, see Reif B (2007) *272*: 117–168
- Neese F, see Sinnecker S (2007) *268*: 47–83
- Nguyen GH, see Smith CL (2005) *261*: 63–90
- Nicolau DV, Sawant PD (2005) Scanning Probe Microscopy Studies of Surface-Immobilised DNA/Oligonucleotide Molecules. *260*: 113–160
- Nilsson P, Olofsson K, Larhed M (2006) Microwave-Assisted and Metal-Catalyzed Coupling Reactions. *266*: 103–144
- Niyomura O, Kato S (2005) Chalcogenocarboxylic Acids. *251*: 1–12
- Niyomura O, see Kato S (2005) *251*: 19–85
- Nohira H, see Sakai K (2007) *269*: 199–231

- Oda R, see Brizard A (2005) 256: 167–218
- Okahata Y, Kawasaki T (2005) Preparation and Electron Conductivity of DNA-Aligned Cast and LB Films from DNA-Lipid Complexes. 260: 57–75
- Okamura T, see Ueyama N (2007) 271: 155–193
- Oller-López JL, see Cuerva JM (2006) 264: 63–92
- Olofsson K, see Nilsson P (2006) 266: 103–144
- Oltra JE, see Cuerva JM (2006) 264: 63–92
- Onoda A, see Ueyama N (2007) 271: 155–193
- Otto D, see Ihmels H (2005) 258: 161–204
- Palchetti I, Mascini M (2005) Electrochemical Adsorption Technique for Immobilization of Single-Stranded Oligonucleotides onto Carbon Screen-Printed Electrodes. 261: 27–43
- Pascal R, Boiteau L, Commeyras A (2005) From the Prebiotic Synthesis of  $\alpha$ -Amino Acids Towards a Primitive Translation Apparatus for the Synthesis of Peptides. 259: 69–122
- Paulo A, see Santos I (2005) 252: 45–84
- Pérez EM, see Leigh DA (2006) 265: 185–208
- Pilch DS, Kaul M, Barbieri CM (2005) Ribosomal RNA Recognition by Aminoglycoside Antibiotics. 253: 179–204
- Pividori MI, Alegret S (2005) DNA Adsorption on Carbonaceous Materials. 260: 1–36
- Piwnica-Worms D, see Sharma V (2005) 252: 155–178
- Polito M, see Braga D (2005) 254: 71–94
- Poulin-Kerstien AT, see Dervan PB (2005) 253: 1–31
- Procter DJ, see McGhee AM (2006) 264: 93–134
- Quiclet-Sire B, Zard SZ (2006) The Degenerative Radical Transfer of Xanthates and Related Derivatives: An Unusually Powerful Tool for the Creation of Carbon–Carbon Bonds. 264: 201–236
- Ratner MA, see Weiss EA (2005) 257: 103–133
- Raymond KN, see Seeber G (2006) 265: 147–184
- Rebek Jr J, see Scarso A (2006) 265: 1–46
- Reckien W, see Thar J (2007) 268: 133–171
- Reif B, Narayanan S (2007) Characterization of Interactions Between Misfolding Proteins and Molecular Chaperones by NMR Spectroscopy. 272: 117–168
- Reiher M, see Herrmann C (2007) 268: 85–132
- Renaud P, see Darmency V (2006) 263: 71–106
- Robinson SP, see Liu S (2005) 252: 193–216
- Saha-Möller CR, see You C-C (2005) 258: 39–82
- Sakai K, Sakurai R, Hirayama N (2007) Molecular Mechanisms of Dielectrically Controlled Resolution (DCR). 269: 233–271
- Sakai K, Sakurai R, Nohira H (2007) New Resolution Technologies Controlled by Chiral Discrimination Mechanisms. 269: 199–231
- Sakamoto M (2005) Photochemical Aspects of Thiocarbonyl Compounds in the Solid-State. 254: 207–232
- Sakurai R, see Sakai K (2007) 269: 199–231
- Sakurai R, see Sakai K (2007) 269: 233–271
- Saladino R, Crestini C, Costanzo G, DiMauro E (2005) On the Prebiotic Synthesis of Nucleobases, Nucleotides, Oligonucleotides, Pre-RNA and Pre-DNA Molecules. 259: 29–68

- Santos I, Paulo A, Correia JDG (2005) Rhenium and Technetium Complexes Anchored by Phosphines and Scorpionates for Radiopharmaceutical Applications. *252*: 45–84
- Santos M, see Szathmáry E (2005) *259*: 167–211
- Sato K (2007) Inorganic–Organic Interfacial Interactions in Hydroxyapatite Mineralization Processes. *270*: 127–153
- Sauvage J-P, see Collin J-P (2005) *262*: 29–62
- Sawant PD, see Nicolau DV (2005) *260*: 113–160
- Scandola F, see Chiorboli C (2005) *257*: 63–102
- Scarso A, Rebek Jr J (2006) Chiral Spaces in Supramolecular Assemblies. *265*: 1–46
- Scheffer JR, Xia W (2005) Asymmetric Induction in Organic Photochemistry via the Solid-State Ionic Chiral Auxiliary Approach. *254*: 233–262
- Schenning APHJ, see Ajayaghosh A (2005) *258*: 83–118
- Schmidtchen FP (2005) Artificial Host Molecules for the Sensing of Anions. *255*: 1–29 Author Index Volumes 251–255
- Schindler J, see Faigl F (2007) *269*: 133–157
- Schoof S, see Wolter F (2007) *267*: 143–185
- De Schryver F, see De Feyter S (2005) *258*: 205–255
- Schulten K, see Dittrich M (2007) *268*: 319–347
- Schuman B, Alfaro JA, Evans SV (2007) Glycosyltransferase Structure and Function. *272*: 217–258
- Seeber G, Tiedemann BEF, Raymond KN (2006) Supramolecular Chirality in Coordination Chemistry. *265*: 147–184
- Seitz O, see Haase C (2007) *267*: 1–36
- Senn HM, Thiel W (2007) QM/MM Methods for Biological Systems. *268*: 173–289
- Sewell SL, see Carney CK (2007) *270*: 155–185
- Sharma V, Piwnicka-Worms D (2005) Monitoring Multidrug Resistance P-Glycoprotein Drug Transport Activity with Single-Photon-Emission Computed Tomography and Positron Emission Tomography Radiopharmaceuticals. *252*: 155–178
- Shinkai S, see Ishi-i T (2005) *258*: 119–160
- Sibi MP, see Zimmerman J (2006) *263*: 107–162
- Siebbeles LDA, see Grozema FC (2005) *257*: 135–164
- Silvi S, see Balzani V (2005) *262*: 1–27
- Simon P, see Kniep R (2007) *270*: 73–125
- Sinnecker S, Neese F (2007) Theoretical Bioinorganic Spectroscopy. *268*: 47–83
- Skrydstrup T, see Hansen SG (2006) *264*: 135–162
- Smith CL, Milea JS, Nguyen GH (2005) Immobilization of Nucleic Acids Using Biotin–Strept(avidin) Systems. *261*: 63–90
- Smith DK, see Hirst AR (2005) *256*: 237–273
- Specker D, Wittmann V (2007) Synthesis and Application of Glycopeptide and Glycoprotein Mimetics. *267*: 65–107
- Stadler A, see Kremsner JM (2006) *266*: 233–278
- Stibor I, Zlatušková P (2005) Chiral Recognition of Anions. *255*: 31–63
- Stoddart JF, see Moonen NNP (2005) *262*: 99–132
- Strauss CR, Varma RS (2006) Microwaves in Green and Sustainable Chemistry. *266*: 199–231
- Suk D-H, see Crich D (2006) *263*: 1–38
- Suksai C, Tuntulani T (2005) Chromogenetic Anion Sensors. *255*: 163–198
- Sun J-S, see Escudé C (2005) *253*: 109–148
- Suna E, Mutule I (2006) Microwave-assisted Heterocyclic Chemistry. *266*: 49–101
- Süssmuth RD, see Wolter F (2007) *267*: 143–185
- Svith H, see Daasbjerg K (2006) *263*: 39–70

- Swerdlow H, see Du Q (2005) *261*: 45–61
- Szathmáry E, Santos M, Fernando C (2005) Evolutionary Potential and Requirements for Minimal Protocells. *259*: 167–211
- Taira S, see Yokoyama K (2005) *261*: 91–112
- Takahashi H, see Tamura R (2007) *269*: 53–82
- Takahashi K, see Ueyama N (2007) *271*: 155–193
- Tamiaki H, see Balaban TS (2005) *258*: 1–38
- Tamura R, Takahashi H, Fujimoto D, Ushio T (2007) Mechanism and Scope of Preferential Enrichment, a Symmetry-Breaking Enantiomeric Resolution Phenomenon. *269*: 53–82
- Thar J, Reckien W, Kirchner B (2007) Car–Parrinello Molecular Dynamics Simulations and Biological Systems. *268*: 133–171
- Thayer DA, Wong C-H (2007) Enzymatic Synthesis of Glycopeptides and Glycoproteins. *267*: 37–63
- Thiel W, see Senn HM (2007) *268*: 173–289
- Tiedemann BEF, see Seeber G (2006) *265*: 147–184
- Tobey SL, see Houk RJT (2005) *255*: 199–229
- Toda F (2005) Thermal and Photochemical Reactions in the Solid-State. *254*: 1–40
- Tour JM, see James DK (2005) *257*: 33–62
- Trask AV, Jones W (2005) Crystal Engineering of Organic Cocrystals by the Solid-State Grinding Approach. *254*: 41–70
- Tuntulani T, see Suksai C (2005) *255*: 163–198
- Uccelli L, see Boschi A (2005) *252*: 85–115
- Ueyama N, Takahashi K, Onoda A, Okamura T, Yamamoto H (2007) Inorganic–Organic Calcium Carbonate Composite of Synthetic Polymer Ligands with an Intramolecular NH $\cdot$  · · O Hydrogen Bond. *271*: 155–193
- Ushio T, see Tamura R (2007) *269*: 53–82
- Varma RS, see Strauss CR (2006) *266*: 199–231
- Veciana J, see Amabilino DB (2006) *265*: 253–302
- Venturi M, see Balzani V (2005) *262*: 1–27
- Veziñ H, see Dias N (2005) *253*: 89–108
- Vögtle F, see Fages F (2005) *256*: 77–131
- Vögtle M, see Žinić M (2005) *256*: 39–76
- Volkmer D, see Fricke M (2007) *270*: 1–41
- Vries TR, see Kellogg RM (2007) *269*: 159–197
- Walschus U, see Luderer F (2005) *260*: 37–56
- Walton JC (2006) Unusual Radical Cyclisations. *264*: 163–200
- Wannberg J, Ersmark K, Larhed M (2006) Microwave-Accelerated Synthesis of Protease Inhibitors. *266*: 167–197
- Warman JM, see Grozema FC (2005) *257*: 135–164
- Warren JD, Geng X, Danishefsky SJ (2007) Synthetic Glycopeptide-Based Vaccines. *267*: 109–141
- Wasielewski MR, see Weiss EA (2005) *257*: 103–133
- Weide T, Modlinger A, Kessler H (2007) Spatial Screening for the Identification of the Bioactive Conformation of Integrin Ligands. *272*: 1–50
- Weiss EA, Wasielewski MR, Ratner MA (2005) Molecules as Wires: Molecule-Assisted Movement of Charge and Energy. *257*: 103–133

- Weissbuch I, Leiserowitz L, Lahav M (2005) Stochastic “Mirror Symmetry Breaking” via Self-Assembly, Reactivity and Amplification of Chirality: Relevance to Abiotic Conditions. 259: 123–165
- Williams LD (2005) Between Objectivity and Whim: Nucleic Acid Structural Biology. 253: 77–88
- Wittmann V, see Specker D (2007) 267: 65–107
- Wright DW, see Carney CK (2007) 270: 155–185
- Wolter F, Schoof S, Süßmuth RD (2007) Synopsis of Structural, Biosynthetic, and Chemical Aspects of Glycopeptide Antibiotics. 267: 143–185
- Wong C-H, see Thayer DA (2007) 267: 37–63
- Wong KM-C, see Yam VW-W (2005) 257: 1–32
- Würthner F, see You C-C (2005) 258: 39–82
- Xia W, see Scheffer JR (2005) 254: 233–262
- Yam VW-W, Wong KM-C (2005) Luminescent Molecular Rods – Transition-Metal Alkynyl Complexes. 257: 1–32
- Yamamoto H, see Ueyama N (2007) 271: 155–193
- Yashima E, see Maeda K (2006) 265: 47–88
- Yokoyama K, Taira S (2005) Self-Assembly DNA-Conjugated Polymer for DNA Immobilization on Chip. 261: 91–112
- Yoshikawa I, see Araki K (2005) 256: 133–165
- Yoshioka R (2007) Racemization, Optical Resolution and Crystallization-Induced Asymmetric Transformation of Amino Acids and Pharmaceutical Intermediates. 269: 83–132
- You C-C, Dobrawa R, Saha-Möllner CR, Würthner F (2005) Metallo-supramolecular Dye Assemblies. 258: 39–82
- Yu J, see Dittrich M (2007) 268: 319–347
- Yu S-H (2007) Bio-inspired Crystal Growth by Synthetic Templates. 271: 79–118
- Zampella G, see Bertini L (2007) 268: 1–46
- Zard SZ, see Quiclet-Sire B (2006) 264: 201–236
- Zhang W (2006) Microwave-Enhanced High-Speed Fluorous Synthesis. 266: 145–166
- Zhang X-E, Deng J-Y (2005) Detection of Mutations in Rifampin-Resistant *Mycobacterium Tuberculosis* by Short Oligonucleotide Ligation Assay on DNA Chips (SOLAC). 261: 169–190
- Zimmerman J, Sibi MP (2006) Enantioselective Radical Reactions. 263: 107–162
- Žinić M, see Fages F (2005) 256: 77–131
- Žinić M, Vögtle F, Fages F (2005) Cholesterol-Based Gelators. 256: 39–76
- Zipse H (2006) Radical Stability—A Theoretical Perspective. 263: 163–190
- Zlatušková P, see Stibor I (2005) 255: 31–63

---

## Subject Index

- Acyltransferases 56
- AFGPs 244
- S-Alkylation 90
- Antibiotic glycosyltransferases 44
- Antibiotics, lipoglycopeptide 56
- Antifreeze glycoproteins 244
- Antitumor vaccines 71
- Avoparcin 145
- Azide-alkyne [3+2] cycloaddition 97
  
- Balhimycin 149
- Bleomycins 165
- , biosynthesis 167
- Block approach 133
- Butyrylcholine esterase 55
  
- C–N bonds 87
- C=N bonds 83
- Cancer vaccines 109, 112
- Carbohydrate antigens, synthetic 109
- Cassette approach 123
- CD2 224, 229
- Chitinase 51
- Chitobiose 234
- Chloroeremomycin 149
- Chymotrypsin 55
- Clustered vaccines 122
- Collagen mimetics 71
- Complestatin 145, 149
- Cross-correlated relaxation 211
  
- Dalbavancin 154
- Disulfide bonds 95
- Drug discovery 109
  
- Endo- $\beta$ -*N*-acetylglucosaminidase 49
- Endoglycosidases 39, 49
- Expressed protein ligation (EPL) 198
  
- Exoglycosidases 39, 45
- Exteins 198
  
- Fucosyl GM1 115
- Fucosyltransferases 39
  
- Galactosyltransferases 39, 193
- GDP-Fuc/GDP-Man 39
- Globo-H 120
- Glucopyranosyl oxazolidinone 74
- Glucosaminyltransferase 193
- Glutaminyl-peptide  $\gamma$ -glutamyl transferase (transglutaminase) 57
- Glycans 39, 221
- Glycobiology 1
- Glycoconjugates 109
- Glycoconjugate-specific databases 219
- Glycopeptides 1
- , antibiotics 44
- , biological function 220
- , conformational analysis 191
- , mimetics, assembly 69
- , non-glycosidic bond forming enzymes 53
- , synthesis 12
- , –, enzymatic glycosidic linkage 39
- , –, expanded genetic code 29
- N*-Glycopeptides 12
- O*-Glycopeptides 17
- Glycoproteins, antifreeze 244
- , biological function 220
- , conformational analysis 191
- , in vivo synthesis 58
- , mimetics, assembly 69
- Glycosidase 196
- C- Glycosides 77
- N*-Glycosides 6, 72
- O*-Glycosides 8, 70
- S*-Glycosides 75

- Glycosidic linkage 3  
Glycosyl amino acid building blocks 6  
N-Glycosylation, 3D structure 221  
-, peptide structure 234  
Glycosylhydrolases 196  
Glycosylthiomethyl amides 77  
Glycosyltransferases 39  
-, antibiotic 44  
-, glycopeptides, complex N-glycans 42  
-, -, complex O-glycans 40  
-, Leloir 39  
Glycosynthase 48  
-, hybrid-type 129  
Guanosine diphosphate sugar donors 39
- Hemagglutinin glycopeptides 234  
HIV, gp41 50, 54  
-, gp120 132, 221, 223  
-, - fragments, high-mannose-type 132  
-, protease inhibitors 72  
-, vaccines 109, 128  
Human chorionic gonadotropin 230  
Human T-cell specific surface glycoprotein CD2 224  
Hydroxylysine mimetics, galactosylated 71
- Interleukin-2 54
- KH-1 118
- Layer approach 132  
Leloir glycosyltransferases 39  
Lewis y 117  
Ligation 198  
-, chemoselective 1  
Linker 170  
Lipases 55  
Lipoglycopeptide antibiotics 56
- Mannopeptimycins 161  
Mannosyltransferases 39  
Metabolic oligosaccharide engineering, bioorthogonal ligation 99  
Metal-binding 170  
Methicillin-resistant *Staphylococcus aureus* (MRSA) 147  
Michael acceptors, conjugate addition 93  
Molecular modeling 212
- Monomeric vaccines 114  
Mucin-type glycoproteins 238
- Native chemical ligation (NCL) 198  
Neoglycoconjugates 65  
Neoglycopeptides 38, 93  
Neoglycoproteins 59  
Non-ribosomal peptide synthetases (NRPS) 144  
Nuclear Overhauser effects/enhancements 191, 204  
Nucleic acid cleavage, structure-activity relationships 169  
Nucleoside diphosphates (NDPs) 39
- Oligosaccharyltransferase 217  
Oritavancin 154
- P-selectin glycoprotein ligand-1 (PSGL-1) 40  
Penicillin G acylase 55  
3'-Phosphoadenosine-5'-phosphosulfate (PAPS) 56  
Polyketide synthase 151  
Posttranslational modifications 67  
Proteases 53  
Protein ligation 198
- Ramoplanin 155  
-, biosynthesis 157  
Residual dipolar couplings 208  
Rhodniin 211  
Ristocetin 145  
RNase 51, 77
- Salmochelin 171  
Scalar couplings 207  
Sialyltransferases 39, 193  
Solid supports 20  
Solid-phase peptide synthesis (SPPS) 197  
Solid-phase synthesis 1  
Subtilisin 54  
Sulfotransferases 56  
Sulfur, nucleophile 90
- Teicoplanin 56, 145, 149  
Telavancin 154  
Thermitase 54  
Thioesterases 57  
Tn-antigen clusters 72

- 
- tRNA synthetase 58  
Tyrocidine 57  
UDP-Glc 39  
UDP-glucose  
  glycoprotein:glucosyltransferase  
  (UGGT) 215  
Uridine diphosphate sugars 39  
Vaccines, antitumor 71  
-, cancer 109, 112  
-, clustered 122  
-, HIV/AIDS 128  
-, synthesis strategy 113  
Vancomycin 45, 56, 146  
-, biosynthesis 149  
Vancomycin-resistant enterococci 154  
X-ray crystallography 211  
Xylosyltransferases 39