

Cumulative Keyword Index for Volumes 166–171[☆]

A

²⁷Al solid-state NMR, **170**, 257
Absorption line shapes, **171**, 80
Acceleration, **166**, 182; **168**, 175
Acoustic noise, **170**, 177
Acquisition delay, **169**, 351
Adamantane, **167**, 133
Adaptive subband decomposition, **169**, 73
Adequate, **166**, 47, 123
Adiabatic pulses, **168**, 31, 103; **169**, 293; **171**, 330
Adsorption, **170**, 42
AGAROSE, **166**, 252
Aligned lipid bilayers, **168**, 147
Aluminum coordination, **170**, 257
Alzheimer's disease, **170**, 257
Amine/diastereotopic methylene protons, **168**, 307
Amino acid, **168**, 1
Amino-acid-type editing, **170**, 199
Amplitude modulation, **169**, 240
Amyloid structure, **168**, 137
Analysis of mixtures, **170**, 97
Analysis of time-resolved EPR data, **169**, 335
Analytical expression, **170**, 284
Antiferromagnetic resonances, **170**, 8
Antimicrobial peptide PGLa, **168**, 153
Apparent diffusion coefficient, **169**, 313; **170**, 228
ARIA, **167**, 334
Arrival time, **167**, 49
Arterial spin labeling, **167**, 49
Articular cartilage, **169**, 300
Artifact suppression, **167**, 291
Assignment, **170**, 244
Asymmetric populations, **170**, 104
Automated NMR data analysis, **170**, 263

B

B0-MAS, **169**, 13
Background gradients, **166**, 164; **171**, 324
Baseline correction, **169**, 257
BEBOP, **167**, 68; **170**, 236
BIBOP, **170**, 236
Bicelles, **170**, 191
Binder burnout, **169**, 328
Biochemical prior knowledge, **168**, 53
Biofilms, **167**, 322; **169**, 60

Blind source separation, **166**, 82
Bloch simulations, **171**, 25
Bloch–Siegert shifts, **170**, 199
Bloch–McConnell equations, **171**, 330
Blood vessel network, **167**, 56
Bound ligand conformation, **168**, 36
Bound states, **167**, 185
Brain tumour classification, **170**, 164
Broad bandwidth, **166**, 111
Broadband excitation, **167**, 68; **170**, 236
Broadband inversion, **170**, 236
Broadband inversion pulse, **167**, 291
BSA, **170**, 345

C

¹³C, **168**, 124; **171**, 43
¹³C chemical shift, **171**, 176
¹³C NMR, **169**, 73; **171**, 225
C-13 labeling, **170**, 156
Canted antiferromagnet, **170**, 8
Carbohydrates, **167**, 31
Carbon chemical shift, **166**, 11
Carbon multiplicity, **166**, 123
Carbon–carbon coupling constant, **166**, 47
Cardiac, **166**, 236; **169**, 246
Carnosine, **171**, 213
Carr–Purcell echo, **169**, 284
Cartesian feedback, **171**, 57, 64
Cartilage, **167**, 36, 306
Cavity, **167**, 138
Cel6A, **170**, 244
Cellulose, **171**, 43
Cellulose oxidation, **170**, 113
Ceramic, **169**, 328
Characterization, **168**, 352
Chemical exchange, **169**, 164, 293; **170**, 104; **171**, 330
Chemical shift, **168**, 31
Chemical shift anisotropy, **167**, 75; **171**, 284
Chemically induced electron polarization, **169**, 335
Chemical-shift selective filter, **170**, 97
Chiral liquid crystals, **171**, 135
Chirp z-Transform, **169**, 102
Chirped RF irradiation, **171**, 163
Cholestane, **171**, 71
Cholesterol, **168**, 18, 228
CIDNP, **168**, 1; **171**, 171
Clean TOCSY, **168**, 238
Coherence pathways, **171**, 107
Coherent averaging, **169**, 13
Coherent response, **167**, 133
Collagen fibril packing, **170**, 49

[☆] Boldface numbers indicate volume; lightface numbers indicate pagination.

Composite pulses, **168**, 358
 Composites, **168**, 164
 Concentrated emulsions, **169**, 85
 Conduction electron diffusion coefficient, **167**, 114
 Conical-SPRITE, **169**, 102
 Constant-time, **170**, 156
 Continuous wave EPR, **166**, 246
 Continuous wave multiquantum electron paramagnetic resonance, **170**, 220
 Continuous-wave EPR spectroscopy, **168**, 252
 Contraction, **169**, 246
 Contrast agent, **170**, 228
 Convection, **167**, 328
 Convection-compensating PGSE, **169**, 92
 Cooking, **171**, 157
 Copolymerize, **171**, 258
 CORCEMA, **168**, 36
 CORCEMA-ST, **168**, 36
 Core-shell latex, **169**, 250
 COSY, **171**, 277
 Couette, **169**, 250
 Coupling constants, **171**, 270, 338
 Covariance spectroscopy, **171**, 277
 CPMG, **170**, 121; **171**, 25, 48, 107, 330
 Creatine(phosphate), **171**, 207
 Creatine, **171**, 213
 Cross polarization, **171**, 314
 Cross-correlations, **171**, 4
 Cross-linked natural rubber, **169**, 19
 Cross-polarization, **166**, 19; **169**, 279
 Cross-relaxation, **166**, 190
 Cross-relaxation compensation, **168**, 238
 Curve fitting, **168**, 273
 CW-cross-polarization, **168**, 210
 Cyclohexane, **169**, 164
 Cylindrical pore, **169**, 313

D
 2D ¹H NMR, **167**, 42
 2D NMR, **166**, 123; **168**, 118
 3D NMR, **168**, 352
 Damped sinusoidal model, **168**, 259
 Damping, **171**, 64
 Data compression, **168**, 288
 Data subspaces, **168**, 53
 DDF, **171**, 131
 Dead time, **171**, 353
 Decoupling, **168**, 124; **171**, 151
 DEFT, **166**, 28
 Degenerate AX₂ spin system, **166**, 202
 Democratic recoupling, **167**, 119
 DENSE, **166**, 236; **169**, 246
 Density matrix, **171**, 330
 DEPT, **167**, 178
 Depth imaging, **169**, 174
 Depth-first search, **170**, 263
 Deuteration, **166**, 190
 Deuterium fluorine distance measurement, **166**, 1
 Diffusion, **166**, 164, 273; **167**, 1, 97, 328; **168**, 46; **169**, 60, 203; **170**, 56, 136, 228; **171**, 20, 244, 324
 Diffusion and flow measurements by NMR, **169**, 92
 Diffusion coefficient, **169**, 174
 Diffusion-enhanced MRI, **170**, 252
 Diffusion MRI, **170**, 56
 Diffusion-weighted imaging, **166**, 252
 Diffusometry, **169**, 85
 Dipolar A₂ system, **171**, 207

Dipolar correlation distance, **166**, 215
 Dipolar coupling, **167**, 228; **171**, 48, 258
 Dipolar filter, **169**, 351
 Dipolar interactions, **169**, 225; **170**, 278
 Dipolar mixing, **168**, 238; **169**, 49
 Dipolar recoupling, **168**, 358
 Dipolar relaxation mechanism, **169**, 300
 Dipolar splitting, **168**, 278
 Dipolar wave, **171**, 258
 Dipole–dipole cross-correlation, **166**, 202
 Direct digital detection, **166**, 246
 Direct-detection, **170**, 127
 Displacement encoding, **171**, 124
 Distance measurements, **170**, 278
 Distances, **166**, 100
 Distant dipolar field, **166**, 215; **170**, 299; **171**, 131
 Distortion, **171**, 57
 DNA, **166**, 11; **170**, 345; **171**, 193
 DOSY, **171**, 20
 DOSY NMR, **169**, 257
 Double difference NOE, **171**, 201
 Double quantum, **169**, 240; **171**, 48
 Double quantum ESR, **170**, 278
 Double quantum evolution, **171**, 186
 DPFGSE, **167**, 31
 Drying, **169**, 174
 Dual group non-Abelian NMR invariants, **167**, 119
 Duplexer, **171**, 11
 Dynamics, **167**, 107
 Dysonian, **168**, 284

E

Echo-planar spectroscopic imaging, **171**, 90
 Eddy current, **169**, 323
 ELDOR, **169**, 1
 Electromagnetics, **169**, 187
 Electron paramagnetic resonance, **166**, 82; **171**, 80
 Electron paramagnetic resonance spectroscopy, **169**, 27
 Electron relaxation rate, **167**, 169
 Electron spin relaxation, **169**, 335
 Electronic feedback, **171**, 57, 64
 Electrophoresis, **171**, 258
 ENDOR, **170**, 88
 EPR, **166**, 92; **167**, 138; **168**, 284; **169**, 1, 129; **170**, 42, 127, 213, 345; **171**, 71, 80, 353
 250 MHz EPR, **170**, 127
 EPR spectroscopy, **168**, 18
 ERETIC, **168**, 118
 ESE, **166**, 92
 ESEEM, **170**, 88
 ESEEM frequencies, **168**, 88
 ESR, **167**, 211, 221; **170**, 345; **171**, 80
 Exchange, **169**, 203
 Exchange interaction, **170**, 42
 Excitation sculpting solvent suppression, **169**, 92
 EXORCYCLE, **168**, 358
 Exponential decay, **168**, 273

F

¹³F, **168**, 124
¹⁹F NMR, **171**, 225
 FAM pulses, **169**, 342
 Fast EPR imaging, **168**, 220
 Fast exchange, **170**, 191
 Fast imaging, **166**, 28; **169**, 60, 270
 Fast magnetic resonance imaging, **168**, 220

- Fast rotating CH₃ groups, **166**, 202
 Fd coat protein, **171**, 258
 FDM2K, **169**, 215
 FDTD, **169**, 187, 323
 Ferroelectric, **167**, 242
 Field distribution, **167**, 138
 Field gradient, **166**, 273
 Field modulation, **168**, 252
 Field spinning, **169**, 13
 Field-cycling, **166**, 19
 Filter diagonalization, **169**, 215
 Filter diagonalization method, **168**, 259; **170**, 156
 Filtering and decimation, **168**, 259
 Finite difference, **167**, 1
 First-derivative absorption spectrum, **168**, 252
 Fitting, **166**, 53
 Flow, **169**, 60, 203
 Flow NMR, **166**, 135
 Fluid mixtures, **166**, 135
 Fluid typing, **169**, 118
 Fluorine, **168**, 1
 fMRI, **167**, 56; **171**, 90
 Food, **170**, 79
 Four-quantum coherences, **169**, 19
 Free radicals, **166**, 82; **168**, 220; **169**, 335
 Free-induction decay, **168**, 278
 Frequency cycling, **171**, 345
 Frequency modulated CP, **168**, 147
 Frequency modulated cross-polarization, **168**, 8
 Frequency modulation, **166**, 111; **168**, 252
 Frequency-selective spectroscopy, **168**, 259
 Fringe field, **166**, 273
 FT-ESR, **170**, 278
 Function, **166**, 236; **169**, 246
- G**
- GaAs, **166**, 69
 GABA, **170**, 290
 Gastric proton pump H⁺/K⁺-ATPase inhibitor, **166**, 1
 Gaussian phase approximation, **169**, 313
 GBIRD, **170**, 121
 G-BIRD^(t), **170**, 184
 Gelatinization, **171**, 157
 GFT, **167**, 178
 gHC_AC_X, **168**, 352
 Glucose–D₂O solutions, **168**, 278
 Gradient, **170**, 177
 Gradient coil, **169**, 323
 Gradient echo, **166**, 28
- H**
- ¹H double-quantum, **169**, 19
²H NMR spectroscopy, **171**, 135
 Hadamard spectroscopy, **170**, 199
 Half pulse, **171**, 305
 Half-integer quadrupolar nuclei, **169**, 342; **171**, 48
 Half-integer spin quadrupolar nuclei, **169**, 279
 HARP, **166**, 236; **169**, 246
 Hartmann–Hahn transfer, **166**, 39; **168**, 210, 238; **169**, 49
³He, **167**, 1; **169**, 313
 α -Helices, **168**, 187
 π -Helices, **168**, 187
³₁₀ Helices, **168**, 187
 Heart, **166**, 236; **169**, 246
 HEHAHA, **168**, 210
 HETCOR, **169**, 342
 Heterogeneous media, **166**, 164; **170**, 228; **171**, 324
 Heterogeneous structure, **171**, 324
 Heteronuclear cross-polarization, **167**, 266
 Heteronuclear recoupling, **168**, 194
 High field, **166**, 92; **167**, 221
 High resolution, **166**, 28
 High RF-field, **167**, 87
 High-frequency, **166**, 92
 High-order Yule–Walker estimation, **169**, 73
 High-resolution, **169**, 13
 High-resolution proton NMR, **169**, 342
 High-throughput, **170**, 206
 Hindered rotation, **169**, 284
 Histidine, **168**, 8
 HMBC, **166**, 53
 HMQC, **168**, 307
 HNCA, **170**, 244; **171**, 338
 HNCACB, **170**, 244; **171**, 186
 HNCO, **169**, 215; **171**, 338
 HNCOCA, **171**, 338
 H(N)COCA, **171**, 338
 HN(CO)CA, **171**, 338
 HN(CO)CACB, **171**, 186
 Homogeneous coordinates, **170**, 284
 Homonuclear 2D NMR spectroscopy, **171**, 277
 Homonuclear decoupling, **170**, 199
 Homonuclear two-bond coupling constant, **168**, 307
 HR-MAS NMR, **171**, 143
 HSQC, **170**, 121
 Human brain, **170**, 257
 Human calf muscle, **171**, 213
 Human model, **169**, 323
 Hydration, **171**, 157
 Hydrocarbon structure, **168**, 352
 Hypercomplex data, **171**, 277
 Hyperfine-decoupling, **168**, 88
 Hyperpolarized, **167**, 1
 Hyperpolarized gas, **169**, 313
 Hyperpolarized xenon, **167**, 298; **169**, 13
 HYSORE, **170**, 88
- I**
- Image artifacts, **167**, 306
 Image reconstruction, **168**, 220
 Imaging, **167**, 185, 211; **169**, 308; **171**, 305, 353
 Imperfections, **169**, 39
 iMQC, **171**, 131
 In vivo ¹H NMR, **171**, 213
 Independent component analysis, **166**, 82
 Indirect magnetization transfer, **167**, 334
 INEPT and RINEPT pulse sequences, **169**, 68
 Inhomogeneous broadening, **170**, 220
 Inhomogeneous fields, **171**, 107
 Inhomogeneous magnetic fields, **168**, 31
 Inhomogeneous susceptibility, **168**, 164
 Input function, **167**, 49
 Interfacial tension, **171**, 118
 Intermolecular dipolar interactions, **171**, 244
 Intermolecular multiple quantum coherence, **171**, 131
 Intermolecular multiple-quantum coherences, **166**, 215; **170**, 299
 Intermolecular NOE, **167**, 31
 Internal field gradients, **167**, 97
 Intra-vascular catheter, **171**, 97
 Invariant trajectory, **166**, 39
 Inverse problem, **170**, 299
 Inverse scattering, **167**, 185; **171**, 305
 Inversion, **169**, 118
 Inverted micelle, **170**, 322

- Ion transport, **169**, 225
 Ion–ion and ion–solvent interactions, **167**, 328
 IPAP, **167**, 253
 Isotope editing, **170**, 121
 Isotropic mixing, **166**, 39
- J**
- $^1J_{NC}$, **170**, 184
 $^1J_{NH}$, **170**, 184
J couplings, **171**, 43
 JM-ADEQUATE, **166**, 47
J-modulation, **166**, 47; **168**, 307
J-Resolved, **171**, 20
- L**
- Laplace transform, **169**, 203
 Laser-polarized xenon-129, **167**, 282
 Lattice point/polyhedral combinatorics in NMR invariant cardinality, **167**, 119
 Least squares support vector machines, **170**, 164
 Lee–Goldburg sequence, **168**, 8
 LF-NMR, **168**, 273
 Lignin compounds, **171**, 176
 Limit of detection, **167**, 87
 Limits of detection, **166**, 152
 Line separation, **166**, 19
 Linear discriminant analysis, **170**, 164
 Linear phase error, **168**, 217
 Linear prediction, **169**, 73
 Linear regularization, **167**, 36
 Line-scan, **171**, 90
 Lineshape analysis, **168**, 284
 Linewidth, **168**, 124
 Lipid bilayer membrane, **168**, 153
 Liposome, **167**, 211
 Liquid crystal, **166**, 147; **167**, 133; **168**, 124; **170**, 310
 Liquid crystalline polymers, **170**, 213
 Lithium phthalocyanine, **170**, 42, 127
 Longitudinal multispin orders, **171**, 345
 Longitudinal relaxation, **168**, 46
 Longitudinal relaxation time, **170**, 220
 Long-range C–H coupling, **166**, 53
 Long-range coupling constants, **166**, 47
 Low frequency electromagnetic wave, **169**, 323
 Low viscosity liquid, **167**, 328
 Low- γ quadrupolar nuclei, **171**, 293
 Low-field NMR, **169**, 313
 Low-field scanner, **170**, 79
 Low-temperature probe, **166**, 19
 Low-viscosity solvents, **170**, 322
- M**
- M2 protein, **168**, 8
 Magic angle field rotation, **169**, 13
 Magic angle sample spinning, **171**, 284
 Magic angle spinning, **167**, 75; **168**, 8; **171**, 314
 Magic-angle spinning, **168**, 137, 194
 Magic-angle-spinning, **169**, 279
 Magnetic alignment, **171**, 71
 Magnetic field dependence, **170**, 191
 Magnetic field sweep, **169**, 308
 Magnetic material, **168**, 246
 Magnetic relaxation dispersion, **171**, 253
 Magnetic resonance, **167**, 56; **168**, 132, 246; **170**, 56
 Magnetic resonance elastography, **166**, 252
 Magnetic resonance histology, **170**, 252
 Magnetic resonance imaging, **166**, 182; **167**, 298; **170**, 177; **171**, 157
 Magnetic resonance spectroscopy, **167**, 42; **168**, 53
 Magnetisation vector, **170**, 284
 Magnetization, **170**, 8
 Magnetization pathways, **171**, 97
 MAGSTE, **171**, 324
 Maltose binding protein, **167**, 107
 Maltose–water solutions, **168**, 278
 Marchenko equation, **167**, 185
 MAS, **166**, 100; **171**, 43
 MAS NMR, **168**, 202; **171**, 48
 Materials science, **167**, 298
 Mathematical model, **167**, 49
 Maximum entropy reconstruction, **170**, 15
 MBOB, **166**, 53
 Membrane permeability, **170**, 56
 Membrane protein, **170**, 322; **171**, 258
 Membranes, **171**, 225
 Metabonomics, **170**, 329
 Metal binding tag, **167**, 169
 Metalloproteins, **170**, 213
 Method of direction estimation, **168**, 259
 Methyl, **170**, 199
 Methyl group, **169**, 284
 Micelle, **170**, 322; **171**, 258
 Microcoil, **167**, 87
 μ s to ms time scale, **169**, 164
 Minimum energy, **167**, 185
 Mixture analysis, **171**, 20
 mm-Wave, **166**, 92
 Mobile probes, **166**, 76, 228; **171**, 124
 Modulation, **171**, 80
 Modulus of elasticity, **166**, 252
 Molecular order parameter, **168**, 18, 228
 Molten salt, **169**, 328
 MQ correlators, **171**, 37
 MQ NMR, **171**, 37
 MQ spin dynamics, **171**, 37
 MQMAS, **169**, 342
 MR contrast agent, **167**, 56
 MR microscopy, **170**, 252
 MRD probe, **171**, 253
 MRFM, **167**, 211
 MRI, **166**, 28, 76, 228, 236; **167**, 282, 322; **168**, 164; **169**, 102, 246; **170**, 79, 252; **171**, 57
 MRS: quantitation, **171**, 57
 Multi-dimensional NMR, **170**, 156
 Multi-echo sequence, **171**, 97
 Multi-exponential decay, **167**, 36
 Multi-frequency pulse, **166**, 147; **171**, 359
 Multiphoton transitions, **170**, 220
 Multiple coils, **170**, 206
 Multiple echoes, **170**, 136
 Multiple photon transitions, **171**, 80
 Multiple quantum, **171**, 48
 Multiple-quantum coherences, **171**, 244
 Multiple quantum evolution, **171**, 338
 Multiple quantum MAS, **167**, 242
 Multivariate curve resolution, **169**, 257
 MUNIN, **167**, 107
 Muscle tissue, **171**, 207
 Myocardial, **169**, 246
- N**
- Nafion, **169**, 174
 Nanoscale, **169**, 250
 Natural abundance ^{13}C correlation, **168**, 327

- Neural networks, **171**, 176
 Nickel, **167**, 169
 Nickel complexes, **168**, 132
 Nitroxide spin labels, **170**, 220
 Nitroxides, **169**, 129
 NMR, **166**, 123, 174, 273; **167**, 97, 107, 178, 211, 322; **168**, 1, 8, 124, 288; **169**, 85, 164, 328; **170**, 49, 67, 97, 199, 206, 299, 310; **171**, 20, 57, 225, 353, 364
 NMR data reduction, **168**, 217
 NMR ¹H DQ MAS distribution, **167**, 161
 NMR imaging, **167**, 133
 NMR in wood, **171**, 364
 NMR lineshape analysis, **169**, 284
 NMR logs, **169**, 118
 NMR mapping, **168**, 175
 NMR photography, **166**, 147; **171**, 359
 NMR porosity, **171**, 364
 NMR probe, **171**, 314
 NMR relaxation, **169**, 118; **170**, 284; **171**, 4, 330
 NMR sample illumination, **171**, 171
 NMR spectroscopy, **167**, 298; **169**, 68
 NMR tube, **167**, 328
 NMR velocimetry, **169**, 250
 NMR-MOUSE, **166**, 76, 228; **169**, 308
 NOE, **168**, 1
 NOESY, **167**, 291; **171**, 277
 Noise, **171**, 11
 Noise correlation, **171**, 151
 Nonclassical stochastic dynamics, **169**, 284
 Nondestructive evaluation, **169**, 328
 Non-linear least square regression, **169**, 257
 Nonlinear processing, **169**, 215
 Non-uniform sampling, **170**, 15
 N-site jump processes, **171**, 293
 Nuclear magnetic resonance, **167**, 185; **169**, 225; **171**, 305
 Nuclear Overhauser effect, **167**, 334
 Numerical calculation, **169**, 187
- O
- O-acetylation, **170**, 156
 ODNMR, **166**, 69
 Off-resonance, **171**, 107
 Off-resonance effects, **170**, 136
 Offset dependent artifacts, **171**, 25
 Oligosaccharides, **170**, 156
 One-bond coupling constant, **166**, 47
 One-bond heteronuclear coupling constant, **168**, 307
 On-line ¹³C NMR spectroscopy, **166**, 135
 On-line ¹H NMR spectroscopy, **166**, 135
 Optically dense sample, **171**, 171
 Optimal control theory, **167**, 68; **170**, 236
 Order tensor, **167**, 228
 Orientation, **168**, 246; **170**, 213
 Orientation dependence of spin-relaxation, **168**, 336
 Orientational constraints, **168**, 153
 Overlapped pulses, **169**, 240
 Oxygen, **170**, 42; **171**, 225
- P
- Pair correlation function, **169**, 1
 Pake pattern, **168**, 278
 Paper degradation, **170**, 113
 Parallel data acquisition, **170**, 206
 Paramagnetic effects, **171**, 225
 Paramagnetic metal ion, **167**, 169
 Pattern Picker, **170**, 263
 Pattern recognition, **170**, 329
 PDLF, **168**, 194
 Peak list editing, **170**, 263
 Peptide, **168**, 147
 Percolation, **168**, 175
 Perfusion, **167**, 49
 PFG diffusion, **170**, 322
 PFG NMR, **166**, 164
 PGSE, **167**, 1
 PGSE-NMR, **167**, 328
 PGSTE, **171**, 324
 Phase and frequency shift, **169**, 257
 Phase correction, **168**, 217
 Phase cycle, **171**, 25
 Phase modulation, **171**, 207
 Phase shift, **170**, 79
 Phased array, **171**, 64, 151
 Phase-sensitive detection, **168**, 252
 Phospholipid bilayer, **168**, 228
 Phospholipid bilayers (bicelles), **168**, 18
 Phospholipids, **171**, 71
 Phosphorus chemical shift, **171**, 193
 PISA wheels, **168**, 187
 PISEMA, **168**, 187
 Platform-independent, **170**, 67
 PMLG, **169**, 342
 Pneumatic probe design, **171**, 253
 Point spread function, **169**, 102
 Polarization transfer, **169**, 68; **170**, 290
 Poly(ethylene oxide), **166**, 273
 Polyacrylamide gel, **171**, 258
 Polymer, **168**, 352
 Polymerization, **169**, 174
 Polypeptides, **166**, 100
 Poly-substituted phenols, **171**, 176
 Population inversion, **169**, 240
 Pore size, **167**, 25
 Porous materials, **167**, 25; **170**, 299
 Porous media, **167**, 97; **168**, 175
 Porous samples, **167**, 282
 Portable MRI, **169**, 308
 Post-Weyl time-reversal invariance, **167**, 119
 Preferential solvation, **167**, 31
 Presaturation, **171**, 143
 Principal component analysis, **170**, 329; **171**, 277; **171**, 176
 Probe, **171**, 15
 Probe design, **170**, 206
 Product operator, **171**, 330
 Product operator formalism, **169**, 68
 Programmable, **166**, 35
 Progressive saturation, **169**, 129
 Projection reconstruction, **167**, 114
 Propagator, **167**, 322
 Propagator reduction, **166**, 174
 Protein, **167**, 178; **170**, 184
 Protein 2D NMR, **166**, 152
 Protein assignment, **169**, 215
 Protein backbone chemical shift assignments, **170**, 15
 Protein dynamics, **166**, 190, 202; **169**, 164
 Protein encapsulation, **170**, 322
 Protein HSQC NMR, **171**, 163
 Protein structure, **169**, 1
 Proteins, **167**, 253; **170**, 199
 Proton NMR, **169**, 351
 Proton relaxation, **166**, 190
 Proton spectra, **169**, 39
 Pulse design, **170**, 67

Pulse EPR, **166**, 246
 Pulse imperfections, **168**, 358
 Pulse sequence, **170**, 284
 Pulsed EPR, **170**, 88
 Pulsed ESR, **167**, 114
 Pulsed excitation, **166**, 69
 Pulsed field gradient, **167**, 291
 Pure phase encode, **169**, 174
 Purely absorptive line shapes, **166**, 152

Q

q-Space imaging, **170**, 56
 Q-band, **171**, 71
 QCPMG, **171**, 293
 Quadratic phase pulses, **166**, 111
 Quadrupolar nuclei, **167**, 87; **168**, 88; **169**, 225
 Quadrupolar splittings, **171**, 135
 Quadrupole resonance, **166**, 19
 Quantification, **170**, 290
 Quantitative, **168**, 118
 Quantitative NMR, **168**, 288
 Quantitative NMR spectroscopy, **166**, 135
 Quantum algorithm, **166**, 35
 Quantum computer, **166**, 35
 Quantum information processing, **170**, 310
 Quantum information science, **166**, 35
 Quantum well, **166**, 69
 Quasi-one dimensional conductors, **167**, 114
 Qubit, **166**, 35

R

Radical kinetics, **169**, 335
 Radiofrequency, **169**, 39, 187
 Ramped amplitude CP, **168**, 147
 Random coil, **166**, 11; **171**, 193
 Random process, **171**, 330
 Rapid imaging, **171**, 118
 Rapid motions, **169**, 351
 Rapid-scan, **170**, 127
 RAPT, **169**, 279
 RARE, **171**, 118, 157
 RbC60, **167**, 221
 RDC, **167**, 228
 Reaction kinetics, **166**, 135
 REDOR, **168**, 358
 Reduced dimensionality, **167**, 178; **170**, 263; **171**, 186, 338
 Reduced time multidimensional NMR spectroscopy, **170**, 15
 Reference, **168**, 118
 Reference deconvolution, **169**, 257
 Relative accuracy, **171**, 25
 Relaxation, **166**, 39; **167**, 25; **169**, 164, 203; **170**, 88; **171**, 244
 Relaxation dispersion, **171**, 25
 Relaxation effects, **167**, 56
 Relaxation matrix, **167**, 334
 Relaxation time mapping, **169**, 174
 Remote-detection, **167**, 282
 Rephasing, **171**, 305
 Residual dipolar coupling, **170**, 191; **171**, 207, 284
 Residual dipolar coupling constant, **168**, 307
 Residual dipolar couplings, **167**, 253; **168**, 238; **169**, 19, 49
 Resolution, **170**, 252
 Resolution enhancement, **167**, 42; **169**, 215; **170**, 199
 Resonance assignment, **167**, 178
 Restricted diffusion, **169**, 85, 313; **171**, 107
 Restricted molecular mobility, **171**, 213
 Reverse micelle, **170**, 322

RF coil, **171**, 353
 RF field, **171**, 314
 RF homogeneity, **171**, 314
 RF peak amplitude, **168**, 103
 RF pulse design, **168**, 103
 RF-pulse synthesis, **167**, 185; **171**, 305
 Rice, **171**, 157
 RNA, **170**, 257
 Rotating field, **169**, 13
 Rotating frame, **169**, 293
 Rotating frame of reference, **169**, 164
 Rotating-frame relaxation, **170**, 104
 Rotation, **171**, 118
 Rotational anisotropy, **168**, 336
 Rotational diffusion tensor, **168**, 336
 Rotational echo double resonance, **166**, 1
 Rotational resonance, **168**, 137
 R-type sequences, **168**, 194
 RUFIS, **169**, 270

S

S100, **171**, 186
 Sample heating, **168**, 202
 Sample transit, **171**, 253
 Sandwich panels, **168**, 164
 SASS, **171**, 15
 Saturation transfer, **168**, 36
 S_n chains as invariants, **167**, 119
 Scalar couplings, **170**, 184
 Scalar relaxation mechanism, **169**, 300
 Scalar-coupling-driven correlation, **168**, 327
 SEEN, **171**, 143
 Selective excitation, **167**, 185; **170**, 97; **171**, 305
 Selective inverse experiments, **167**, 266
 Selective inversion, **168**, 103
 Selective pulse, **171**, 57
 Selective TOCSY edited preparation, **171**, 201
 Self-diffusion, **168**, 31
 Sensitivity, **167**, 138, 282
 Sensitivity enhancement, **167**, 253; **171**, 270
 Sequence effect, **166**, 11; **171**, 193
 Sequence programming, **170**, 67
 Sequential assignment, **171**, 186, 338
 SGP, **169**, 85
 SGSE, **167**, 114
 Shinnar–Le Roux transformation, **166**, 111
 Short echo time MRS, **170**, 164
 Short gradient pulse limit approximation, **169**, 85
 Sialons, **169**, 279
 Sidebands, **170**, 199
 Signal contrast, **166**, 215
 Simulated T_2 data, **167**, 36
 Simulation, **169**, 187; **171**, 330
 Simulations, **166**, 174; **171**, 293
 Sinc function, **168**, 278
 Single point imaging, **170**, 177
 Single-quantum coherences, **166**, 215
 Single-sided NMR, **169**, 308; **171**, 364
 Singular value decomposition, **168**, 53, 259; **171**, 277
 SLF, **168**, 194
 Slice-selective excitation, **168**, 46
 SLICING, **168**, 273
 Sodium NMR, **167**, 25
 Soft excitation, **167**, 133
 Software, **170**, 67
 Software for diffusion tensor determination, **168**, 336
 Sol/gel phase transition, **166**, 252

- Solid state ^{19}F -NMR, **166**, 100; **168**, 124, 153; **171**, 293
 Solids, **169**, 351
 Solid-state NMR, **166**, 1; **167**, 87; **168**, 147, 153, 228, 327; **169**, 39, 342
 Solid-state NMR spectroscopy, **168**, 18
 SPAMM, **166**, 236; **169**, 246
 Spatial encoding, **171**, 163, 359
 Spatial localization, **167**, 42
 Spectral correction, **170**, 329
 Spectral editing, **167**, 178; **170**, 290; **171**, 201, 345
 Spectral flatness, **169**, 73
 Spectral line fitting, **169**, 27
 Spectroscopy, **170**, 329
 Spectroscopy analysis, **166**, 82
 SPI, **169**, 174
 Spin diffusion, **166**, 190; **167**, 334
 Spin echo, **169**, 174
 Spin exchange, **169**, 27
 Spin labeling, **169**, 1
 Spin labels, **169**, 27, 129
 Spin lock, **169**, 164
 Spin relaxation, **168**, 132
 Spin state selectivity, **168**, 210
 Spin–lattice rates, **169**, 129
 Spin–lattice relaxation, **167**, 221
 Spin–spin coupling Hamiltonian, **169**, 68
 Spin-1, **166**, 1
 Spin-diffusion, **171**, 97
 Spin-echo, **171**, 43
 Spin-label EPR, **168**, 228
 Spin-labeling, **170**, 278
 Spin-lattice relaxation, **169**, 270
 Spin-lock, **171**, 330
 Spin-lock imaging, **167**, 306
 Spinning magnetic field gradient, **168**, 220
 Spinning sidebands, **167**, 75
 Spin-state selective editing, **171**, 270
 Spin-state selective excitation, **167**, 266
 Spin-state-selective α/β -filter, **170**, 184
 Spiral-SPRITE, **169**, 102
 SPRITE, **168**, 164
 States, **171**, 277
 STD-NMR, **168**, 36
 Steady state longitudinal magnetization, **171**, 131
 Stearic acid- d_{35} , **168**, 228
 Stejskal–Tanner plots, **169**, 92
 STEP-NOESY, **171**, 201
 STEPR, **170**, 345
 Stimulated echo, **166**, 273; **168**, 31
 Stimulated Raman adiabatic passage, **169**, 240
 Stimulated spin echoes, **169**, 225
 Stray-field NMR, **171**, 107
 Strong coupling, **171**, 345
 Strong gradient, **168**, 46
 Structure based drug design, **168**, 36
 Structure determination, **166**, 100
 Surface coils, **167**, 306; **171**, 151
 Susceptibility fields, **166**, 164
 SVD, **167**, 228
- T
- $T_{1\rho}$, **167**, 306; **169**, 164
 $T_{1\rho}$ and T_2 relaxation, **169**, 300
 T_1 map, **169**, 270
 T_2 , **169**, 174
 T_2 relaxation, **167**, 36; **169**, 60
 T_2 relaxation time, **170**, 113
 T_2^* mapping, **169**, 102
 T_2 mapping, **171**, 90
 T_2 -displacement correlation, **169**, 203
 Tagging, **166**, 236; **169**, 246
 Taurine, **171**, 213
 Temperature effect, **166**, 11
 Temperature measurement, **168**, 202
 Temperature sensor magnetic field dependence, **168**, 202
 Tendon, **170**, 49
 Tensile loading, **170**, 49
 Termite, **168**, 246
 Thermodynamics, **166**, 135
 Thermometry, **170**, 79
 Thin film, **169**, 174
 Three-spin order, **171**, 244
 Three-way decomposition, **167**, 107
 Through-bond correlation, **168**, 327
 Time domain, **169**, 129
 Time-data analysis, **169**, 73
 Time-dependent, **166**, 174
 TOCSY, **166**, 39; **168**, 238, 352; **169**, 49
 TOCSY–NOESY, **171**, 201
 Torsion angle optimization, **168**, 36
 Total least squares, **168**, 53
 Total/scattered Field, **169**, 323
 TPPI, **171**, 277
 Transceive, **171**, 151
 Transient-state magnetization, **169**, 270
 Transmission, **171**, 64
 Transmit–receive switch, **171**, 11
 Transport, **171**, 124
 Transverse (T_2) relaxation, **171**, 25
 Transverse relaxation, **166**, 202; **169**, 293
 Transverse relaxation time T_2 , **168**, 273
 4-Trifluoromethyl-phenylglycine, **168**, 153
 Triple resonance, **171**, 186, 338
 Triple-quantum, **169**, 19
 Triple-resonance experiments, **169**, 215
 Tritel, **168**, 220; **170**, 127
 TROSY, **170**, 184, 244; **171**, 270, 284
 Turbulence, **166**, 182
 Two-dimensional, **169**, 203
 Two-dimensional spectroscopy, **166**, 152
- U
- Ubiquitin, **170**, 244; **171**, 186, 338
 UC2QF COSY, **168**, 327
 Ultrafast 2D NMR, **171**, 163
 Ultrafast acquisitions, **167**, 42
 Ultrafast NMR, **166**, 152
 Unilateral NMR, **166**, 76, 228; **171**, 124
 Unilateral NMR relaxometer, **170**, 113
- V
- Variable temperature NMR, **168**, 202
 Vascular network, **170**, 228
 Velocity, **166**, 182; **167**, 322
 Velocity autocorrelation, **166**, 182
 Very selective saturation pulses, **166**, 111
 Vibronic process, **168**, 132
 Vigabatrin, **170**, 290
 Vortex tube, **168**, 202
- W
- W3 pulse trains, **167**, 31
 Water, **167**, 138
 Water ADC, **170**, 49

Water suppression, **171**, 143
Wave interference, **169**, 187
Wavelet, **168**, 288
Weak alignment of a protein, **171**, 284
Weak complexes, **168**, 36
Weak pulse, **169**, 351
Wetting, **169**, 174
Windowed PMLG, **169**, 39
Wood moisture contents, **171**, 364
wPMLG, **169**, 342

X

X-band, **171**, 71

Y

Yield stress, **169**, 250
Yule-Walker, **168**, 259

Z

Zeeman modulation, **170**, 345
Zero field splitting, **167**, 169
Zero inter-filling, **168**, 217
Zero quantum coherence, **171**, 345; **167**, 291; **171**, 201
Zero-quantum filter, **171**, 201
z-filter, **167**, 291
z-Gradient filter, **171**, 135