Subject Index

acetic acid and propionic acid guests, 69
adsorption, 75
aminopyrimidine, 75
argon, 11
atomic force microscopy, 37
azacrowns, 135

benzene, 181
benzothiazole crown ethers, 125
BF_2^+-capped complex, 95
bile acids, 61
binding constants, 173
bonded phase, 103
β-cyclodextrin, 147

calix[n]arene, 111
calixresorcinare, 37
Cambridge structures, 81
capillary electrophoretic, 103
cavity, 181
chirality, 61
chloropyridine, 25
cholic acid, 181
clathrate hydrates, 45, 55
clathrates, 69
clay minerals, 75
co-crystallization, 181
complex formation, 147
complexation, 147
computer simulation, 45
copper(II), 147
crystal structures of ionic carbonates, 81
crystal structures, 31, 61
cucurbit[8]uril, 31
cyclodextrins, 117, 173
cyclophanes, 141

dopamine, 141
dynamic light scattering, 37

equation of state, 55
ethylbenzene, 181
extraction mixed-donors macrocycles, 95

first-principle calculations, 55
fluorescence spectroscopy, 173
functional materials, 3

gas hydrate, 11

H-bonding, 69
hierarchical structure, 61
high pressure, 11
Hofmann-type complexes, 25
host framework, 181
host–guest complexes, 141
host–guest inclusion complexes, 173
host–guest interactions, 165
hydrogen bonds, 61
hydrolysis, 103
hydroxypropyl-β-cyclodextrin, 157

imidazole, 131
inclusion complexation, 111, 117
inclusion compounds, 31, 61, 81, 131, 165
inclusion crystal, 181
infrared spectra, 131
interaction, 135
intercalation, 75
iodine, 135
ion-molecular crystals, 81
IR spectra, 25
IR spectroscopy, 75

kinetics, 135
K^+ picrate extraction, 125

lanthanide(III) complexes, 151
lattice dynamics, 55
Li^+ picrate extraction, 125
loughlinite, 75

macrocyclic polyamine, 103
metal complexes, 131
metal-organic frameworks, 3
molecular assemblies, 61
molecular crystals, 3
molecular dynamics, 45
mononuclear complex, 95
montmorillonite, 75

Na^+ picrate extraction, 125
naphthalene excimer, 173
naproxen, 157
neutron diffraction, 11
NMR, 141
nucleotides, 103

oxaazamacrocycle, 151

phenylphosphonic acid, 31
phonon density of states, 55
photostabilisation, 117
polyvinylpyrrolidone, 157
porphyrin clathrates, 165
pseudodimorphism, 69
pyrazinamide, 75

quantum chemistry, 111

Schiff-base, 151
selective incorporation, 181
sepiolite, 75
smart materials, 3
soft materials, 3
solid lipid nanoparticles, 37
spectrophotometry, 135
stability, 37, 135
structural classes, 81
structural flexibility, 181
structures, 11
supramolecular stabilization, 3
synthesis, 125

T_d-type clathrates, 131
template effect, 95
tensimetric method, 19
ternary complex, 157

tetra(4-carboxyphenyl)porphyrin, 165
tetracyanometallate, 25
thermal dissociation, 19
thermodynamic parameters, 19
trans-9,10-dihydro-9,10-ethanoanthracene-11,12-dicarboxylic acid host, 69

UV filters, 117
UV-visible and fluorescence spectroscopy, 125

Van der Waals radii, 81
vapour pressure, 19
vic-dioxime, 95

weak interactions, 3
Werner clathrates, 19

X-ray crystal structure, 165
X-ray structure, 69