

Keyword Index Volume 22 (2008)

γ -irradiation	279	density functional theory	297
2-mercaptopyridine	51	dextran derivatives	177
5-DOXYL	33	DFT	235
activity modulation	251	diagnosis	1
amino acids	297	dimethyl sulfoxide	405
amphipathic peptides	251	distal pocket	123
amyloid fibrils	165	DPPC	153
ANS	251	dye–surfactant aggregate	309
Antarctic fish	143	electric field	319
antibacterial activity	51	electronic coherence	199
atherosclerosis	467	electrons	491
ATR-FTIR	437	electrostatics	319
attenuated total reflectance infrared spectroscopy	405	energy dispersive X-ray fluorescence (EDXRF)	57
attenuation coefficient	419	energy transduction	319
bacterial cells	83	environmental factors	83
binding constants	251	EPR	491
biochemical analysis	1	excited state intramolecular proton transfer	187
biological fluids	1	factor analysis	267
biomedical instrumentation	467	factor VIII	223
biosensors	223	fiber optic	459
blood serum	387	fibre-optic probes	429
bovine pancreatic ribonuclease A	279	fluorescence	213
bovine serum albumin	43	fluorescence correlation spectroscopy	261
brain diseases	213	fluorescence spectroscopy	43
breast cancer	113	Fourier transform infrared spectroscopy (FTIR)	21, 63, 83, 97, 371, 397
Ca ²⁺ pump	63	free radicals	491
cadmium(II) complexes	361	FTIR-ATR spectroscopy	223
calf-thymus DNA	345, 475	FT-NIR	437
cancer	97	function	63
cardiac agent	43	gemfibrozil	309
catheter	459	GIP	213
cavity mutant	123	H93G myoglobin	123
CD	213	haemophilia	223
chromophore concentration	429	hairpin	267
circular dichroism	251	half value layer	419
coherence transfer	199	hemicrome	143
coiled coil	251	hemodynamics	429
colonic earlier stage cancer	397	hemoglobin	143, 287
complexes	177	hepatitis C	387
continuous wavelet transform	371	HIV	267
copper(II) ion	177	human plasma	327
CP MAS NMR studies	361	human skin <i>in vivo</i>	405, 437
curcumin	187	hydration structure	165

imidazole binding	123	peridinin	235
imidazolidine-2-thione	361	peridinin–chlorophyll- <i>a</i> –protein	235
inelastic neutron scattering spectroscopy	297	pH	475
infrared spectroscopy	105, 297	pharmacology	177
inorganic matrix	105	photodynamic therapy	419
interaction	43	photosensitizer	187
interdigitated chain	153	photosynthetic complexes	199
intrinsic fluorescence	251	physicochemical characterization	177
isotope labeling	327	pig ear skin <i>in vitro</i>	405, 437
<i>in vivo</i> applications	459	plant-growth-promoting rhizobacteria (PGPR)	83
		plant–microbe interactions	83
kidney cortex	21	poly-L-lysine	165
		postmortem interval	21
lamellar phase	153	protein–lipid interactions	223
laser diagnosis	387	proteins	297
ligand–receptor binding	223	proximal pocket	123
linear regression	21	P-type ATPase	319
liposomes	33	pyridine binding	123
lymph node	97		
Lyso-lipid	153	qualitative and quantitative analysis	57
lysozyme	165	quantitation	327
Mahalanobis distance	387	radiation doses, high (0.5–1.7 Gy)	105
mass spectrometry	327	radiation doses, low (0.12–0.20 Gy)	105
membrane dynamic	261	radical damage	279
metabolomics	327	radius basis function neural network	371
metal ions interaction	213	Raman spectroscopy	1, 97, 113, 267, 279, 297, 345, 387, 467, 475
metastasis	97	relaxation dynamics	199
micelles	153	resonance Raman spectroscopy	287
microfluidic system	287	RNA	267
mitral valve	57	Roman crystallography	143
mixed aggregate	309		
Mn ²⁺ concentration	345	secondary structure	165
Mn ²⁺ ions	475	selenocyanate complexes	361
mREV	33	self-assembled lipid membranes	223
multidrug resistant (MDR) cells	261	SERCA	63
		signal-to-noise ratio (SNR)	467
Na ⁺ ions	345	silver(I) complexes	51
near Fourier transform Raman spectroscopy	405, 437	spectrophotometry	153
near infrared spectroscopy	429	spectroscopic analysis	429
nerve myoglobin	287	spectroscopy	459
neuroglobin	287	spin trap	491
Newton–Raphson method	251	spin-label ESR	153
		<i>Stephania cepharantha</i> Hayata	371
oesophagus	97	<i>Stephania tetrandra</i> S. Moore	371
oligomerisation	251	step-scan FTIR	235
optical filter	459	stress response	83
optical spectroscopy	199	structure	63
optical tweezers	287	(sub)picosecond dynamics	345, 475
optimum wavelength	467	surfactant	309
organic matrix	105	SVM	397
PCA	113, 387, 437	TAR	267
PDZ domain	213	teeth tissues	105
penetration depth	419	TEMPO	33
penetration	405	thermally stimulated depolarization currents	165
peptides	297	thiomalate	51

Keyword Index Volume 22 (2008)

507

tiron	491	urology	429
tissue phantom	419		
transport	319	water dipoles	165
triplet state	235	wavelet feature extraction	397