

Keyword Index Volume 24 (2010)

<i>p</i> -anisic acid	449	<i>Candida albicans</i>	621
<i>p</i> -methoxybenzoic acid	449	cardiomyocytes	89
3D fluorescence	317	CD	297
6-azacytidine	191	cell	501
absorption	169	cellular uptake	303
acritarchs	207	Chlorophyceae	381
aggregation	343	chromatin	165, 239, 361
alcohol	375	circular dichroism	165, 239, 349, 361
alkali metal methoxybenzoates	449	classification	99
Alzheimer's disease	61	Co(II) ion	269
amide I	25	complexes	269
amyloid β peptide	61	concentration–calibration curves	317
amyloid-beta	245	conformational analysis	219
amyloid fibrils	169	contaminant	601
antibody	183	control skin	467
apolipoprotein E	245	cortical bone	99
apoptosis	535	cough syrup	601
archaea	233	CPD damage	309
atomic force microscopy	113	cryopreservation	525
ATR-FT-Far-IR spectroscopy	105	cryosurgery	525
ATR-FTIR spectroscopy	61, 245	cyclodextrin	137
Azures	621	cytidine	191
		cytochrome C	173
B3LYP/6-311++G**	449	D-galactose/D-glucose-binding protein	355
bacteriorhodopsin	153	DAD	79
barium <i>m</i> -nitrobenzoates	433	data bank	317
Beer's law	629	DCDR	197
benchtop spectrometer	73	DEER	283
BIA-ATR biosensors	257	dendrimer	427
<i>Bifidobacterium lactis</i>	251	detection	601
biomarker	517	deuteration	191, 269
biomedical applications	593	dextran	269
biomolecules	375	DFT	417, 433, 439
bioremediation	177	DFT calculations	219
biosensor	61	DHICA	289
biotemplate	177	diagnosis	61
blue shift	191	dielectric constant	143
boldine hydrochloride	483	diethylene glycol	601
bone	99	diffuse reflectance	467
bone density	517	dihedral angle	159
Boson Peak	201	diluted human plasma	317
bovine hemoglobin	559	dimers	169
breast cancer	67	distance determination	283
		distance measurements	651
calcium	277, 433	DL-seleno-methionine	567
cancer	45, 51, 55, 73, 501	DNA	119, 239, 361
cancer diagnosis	67	DNA photolesion	309

double electron–electron resonance	283	homologous disaccharides	387
drug	45, 55, 317	homopolynucleotide	445
drug resistance	339	human blood	641
DSC	375	human serum albumin	159, 547
duplex	445	hybrid	233
dynamical transition	149	hydrated proteins	143
dynamics	461	hydration	297
		hydration effects	461
elastic incoherent neutron scattering	387	hydrogel	25
elastic neutron scattering	461	hydrophobicity	251
electron transfer	125	hyperthermophilic organism	349
emission spectroscopy	399		
enzyme–ligand binding	399	IgG	183
EPR spectroscopy	289, 651	imaging	131, 137
erythrocytes	525	immunocomplex	183
excimer	325	infrared imaging	67
excited state	289	infrared microspectroscopy	67
excitonic coupling	25	infrared spectroscopy	37, 177, 233, 309, 601
eximers	169	interaction	559
		interdigitation	375
fingernails	517	intrinsic fluorescence of proteins	165, 355
Fluo-imager	317	intrinsically disordered proteins	165
fluorescence	137, 169, 325, 343, 349	IR and Raman spectra	219
fluorescence intensity decay	399	IR imaging	51, 55
fluorescence lifetime	303	IR spectroscopy	45, 51, 55
fluorescence spectra	317, 547	isotope labeling	37
fluorescent proteins	367		
folding	343	kerogen	207
folding of proteins with beta-barrel topology	367		
fracture	517	L-alanyl-L-glutamine dipeptide	219
free-energy	421	L-methionine	567
FT-IR	257, 269, 277, 297, 433, 439, 449, 501, 511, 525	L-proline	213
FT-IR micro-spectrometry	535	<i>Lactobacillus acidophilus</i>	251
FT-IR microspectroscopy	89	lanthanum and thorium cinnamates	277
FT-IR spectra	483	laser micro-Raman	207
FT-IR spectroscopy	73, 99, 251	lifetime	137, 325
FT-Raman	277, 439, 449	lifetime distribution	399
FTIR–ATR spectroscopy	261	light scattering	343
FTIR imaging	105	linker histone H1	165
FTIR microscopy	609	lipids	89
fungal detection	261, 609	liposome	197, 525
fungi	261, 609	live cell	131, 137
		localized surface plasmons	125
G-quadruplex	325	loureirin B	547
gastric ATPase	257	low frequency dynamics	201
GFP	343	lysine	159
glass transition	393	lysozyme	201
globular protein	153		
glycerol	409	machine drift	629
gold-coated slide	577	magnesium	433, 445
gold nanoparticles	183	MCF-7	501
		MD simulations	421
H-bonds	191	mean square displacement	387
Haematoxylin & Eosin	73	melanin	289
heavy metal binding	177	membrane dynamics	585
heme proteins	409	membrane phase behavior	525
hemoglobin	333	membrane proteins	651
HMGB1	239, 361	methyl groups	89

micelle	137, 169	PDS	629
micro-alga	381	phospholipase A ₂	37
microscopy Raman	577	phospholipid	375
microspectrofluorometry	303	phosphorylation	257
microwave properties	143	photo-dissociation	333
mirtazapine	641	photodynamic therapy (PDT)	621
MnmE	283	photosensitizer (PS)	621
mobility	421	physiological effect	629
molecular dynamics	159	pig ear skin	105
molecular modeling	651	platelets	525
molecular modeling methods	559	PLS	629
molecular motions	387	polyA	445
molecular structure	433, 439	polyA-polyU	445
monitoring	317	polyproline II helical conformation	213
mono- and polyacetylenes	417	polyU	445
MTSSL	283	porphyrin	197, 303
multi-exponential model	399	potassium probe	325
multidimensional spectroscopy	393	potato	609
multivariate analysis	99	power-like function	399
multivariate PCA-LDA	89	propranolol	137
myelin	585	prostate PC-3 cells	51
myeloperoxidase	183	protein	89, 149, 201, 421
myoglobin	409	protein dynamics	409
Mössbauer spectroscopy with a high velocity resolution	593	protein engineering	37
		protein folding	165, 355
		protein precipitation	641
nanoparticles	125	protein secondary structure	213
nanostructures	427	protein stability	233, 339, 349, 355, 367
near infrared fluorescence imaging	577	protein structure	37, 297, 339
near-infrared spectroscopy	601		
necrosis	535	QM/MM method	483
neoproterozoic	207	quantitative analysis	251
neutron backscattering spectroscopy	381	quantum yield	169
neutron scattering	585	quenching	137
NMR	277, 375, 439, 449		
NMR spectroscopy	567	radical pair	289
non-histone chromatin protein HMGB1	165	radioresistance	381
nuclear magnetic resonance	381	Raman microspectroscopy	113
nucleic acids	89	Raman optical activity	213
		Raman scattering	201
o-amino-	439	Raman spectra	191
o-chlorobenzoates	439	Raman spectroscopy	119, 131, 197, 213, 417, 445, 517
o-hydroxy-	439	rapid-scan FTIR	79
o-methoxy-	439	ratio-analysis	467
o-nitro-	439	reaction center	79
oblique illumination	577	redox mediators	79
odorant-binding proteins	367	reducing agent	343
oligomers	245	resolution effects	387
oligonucleotide	197, 303	RNA	445
oriented model membranes	461		
osteoporosis	517	salmon calcitonin	511
		sample preparation	511
palaeozoic	207	SDSL	283
palmitic acid	159	second derivative	511
Papanicolau	73	SEIRAS	173
parabolic mirror	119	self-assembly	25, 427
pattern recognition software	317	self-distribution function	387
PCA	99	SERS	119, 183

silver	125	thermally stimulated depolarization currents (TSDC)	297
site-directed spin labeling	283, 651	thermoadaptation	233
SKBr3	501	thermodynamic parameters	547
skin	577	thiacloprid	559
small guanidine hydrochloride concentrations	367	thioflavin T	169
small variations	593	thymine dimer	309
sodium	277	time drift	629
specific heat	201	time-resolved surface-enhanced resonance Raman spectroscopy	125
spectral analysis	467	tissue Raman spectroscopy	577
spectral characteristics	261	TMPD	79
spectral peaks	609	translocation	421
spectro-electrochemistry	173	triplex	445
spectrofluorimetry	641	two-dimensional electronic spectroscopy	393
spectroscopic techniques	559	two-layer gold surface	173
spectroscopy	467, 629	ubiquinone	79
spin label	283	ultrafast spectroscopy	333
spin polarization	289	UV-vis spectra	547
sporopollenin	207	validated	641
stem cell differentiation	89	VCD	25, 239, 361
strontium	433	vibrational spectra	483
structural similarity	511	vibrational spectroscopy	501
superoxide radical anion	289	water dynamics	143
supported lipid bilayers	113	X-ray absorption	177
surface-enhanced Raman spectroscopy	113	XRD	375
surface-enhancement	173	zeolites	427
synchrotron	73		
synchrotron radiation	105		
TATA box binding protein	233		
terahertz time-domain spectroscopy	149, 153		
TERS	119		
TFE	297		
therapy	317		