

# Keyword Index Volume 4 (2015)

<sup>1</sup> H nuclear magnetic resonance spectroscopy	359	folded and unfolded proteins	223
2D asynchronous spectra	129	FTIR	67, 331, 341
<i>ab initio</i> computations	223	glycoproteins	223
acute gallbladder sludge	67	hemoglobin	5
adenine-thymine	189	hemophilia	359
Alzheimer's disease	341	hierarchical cluster analysis	341
anionic surfactant	209	hippocampus	197
anisotropy	299	history	5
aromatic side chains	5	HSV	373
artemisinin	129	hydrated metal cations	189
ATR-FTIR	159		
attenuation	283	identification	139
bacteriorhodopsin	5	image processing	373
bioimaging	391	infrared microscopy	57
biological scaffolds	331	infrared spectroscopy (IR)	57, 139
bladder	283	intermolecular interaction	129
brain	299	knee injury	359
cancer diagnosis	35	lanthanide ions	129
carbohydrates	223	magnetic resonance imaging	197
cerebrospinal fluid	341	melanin	283
channelrhodopsin	5	membrane phase behavior	331
chemometric data analysis	57	metabolomics	359
chemometry	341	microstructure	299
chirality	255	modified	391
chromophores	283	molecular chirality	223
chronic gallstone	67	molecular dynamics simulations	269
circular dichroism	5	MRI	299
classification	139	multimodal	391
codistribution analysis	109	Multiple Sclerosis	341
contrast agent	81	myoglobin	5
density functional theory	255	nanomaterials	391
desiccation tolerance	331	near-infrared spectroscopy	283
DFT	189	neurodegenerative diseases	341
diagnosis	341	nucleic acids	223
dichroism	159	optical activity	255
diffusion	331	optical coherence tomography	35
double asynchronous orthogonal sample design	129	oral cancer	171
EDXRF	67	Pareto scaling	109
endoscopy	373	peptides	223
equilibrium constant	209	pigmentation	283
excitons	5		

plasmonic nanostructures	95	surface-enhanced Raman scattering (SERS)	95
polymer	81	synchrotron radiation	269
porphyrazine	209		
post-traumatic osteoarthritis	359		
principal component analysis (PCA)	171	T <sub>2</sub> relaxation	299
principal component-linear discriminant analysis (PC-LDA)	171	time-dependent density functional theory	269
principle component analysis	341	tissue diagnosis	57
protein and lipid orientation	159	tissue engineering	331
protein secondary structure	5, 109, 331	trace element	67
protein stability	331	traditional Chinese medicine (TCM)	139
Raman optical activity	223	transition metal	255
Raman spectroscopy	35, 171	transmission electron microscope	81
Raman spectroscopy and microscopy	95	two-dimensional correlation infrared spectroscopy (2DCOS-IR)	139
RGB	373	two-dimensional correlation spectroscopy	109
rhodopsin	5	ulcer	373
saccharide	269	ultrasound imaging	81
secondary structure	159	upconversion	391
SEM	67		
serum	171, 341	vector projection	109
spectrophotometry	209	vibrational optical activity	223
steric configuration	269	vibrational properties	189
subcellular localization	81	vibrational spectroscopy	95, 255
subfields	197	viruses	223
		volumetry	197