

# Erik Goormaghtigh

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

248  
papers

10,348  
citations

53  
h-index

91  
g-index

254  
ext. papers

11,162  
ext. citations

4.4  
avg, IF

6.08  
L-index

#	Paper	IF	Citations
248	Simple and Scalable Chemical Surface Patterning via Direct Deposition from Immobilized Plasma Filaments in a Dielectric Barrier Discharge.. <i>Advanced Science</i> , <b>2022</b> , e2200237	13.6	
247	SOMSpec as a General Purpose Validated Self-Organising Map Tool for Rapid Protein Secondary Structure Prediction From Infrared Absorbance Data.. <i>Frontiers in Chemistry</i> , <b>2021</b> , 9, 784625	5	
246	Attenuated total reflection-Fourier transform infrared spectroscopy: a tool to characterize antimicrobial cyclic peptide-membrane interactions. <i>European Biophysics Journal</i> , <b>2021</b> , 50, 629-639	1.9	1
245	Searching for a Better Match between Protein Secondary Structure Definitions and Protein FTIR Spectra. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 1561-1568	7.8	10
244	Plasmonic fiber grating biosensors demodulated through spectral envelopes intersection. <i>Journal of Lightwave Technology</i> , <b>2021</b> , 1-1	4	7
243	Analysis of Glycoproteins by ATR-FTIR Spectroscopy: Comparative Assessment. <i>Methods in Molecular Biology</i> , <b>2021</b> , 2271, 361-374	1.4	
242	Amino acid side chain contribution to protein FTIR spectra: impact on secondary structure evaluation. <i>European Biophysics Journal</i> , <b>2021</b> , 50, 641-651	1.9	4
241	FTIR Imaging of Protein Microarrays for High Throughput Secondary Structure Determination. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 3733-3741	7.8	13
240	Evaluation of protein secondary structure from FTIR spectra improved after partial deuteration. <i>European Biophysics Journal</i> , <b>2021</b> , 50, 613-628	1.9	4
239	Protein Structural Denaturation Evaluated by MCR-ALS of Protein Microarray FTIR Spectra. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 13441-13449	7.8	3
238	Macromolecular assembly and membrane activity of antimicrobial D,L- $\beta$ -cyclic peptides. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2021</b> , 208, 112086	6	1
237	FTIR spectroscopy as an analytical tool to compare glycosylation in therapeutic monoclonal antibodies. <i>Analytica Chimica Acta</i> , <b>2020</b> , 1112, 62-71	6.6	17
236	HER2 biosensing through SPR-envelope tracking in plasmonic optical fiber gratings. <i>Biomedical Optics Express</i> , <b>2020</b> , 11, 4862-4871	3.5	25
235	Multimodal plasmonic optical fiber grating aptasensor. <i>Optics Express</i> , <b>2020</b> , 28, 7539-7551	3.3	21
234	Intertwined metal homeostasis, oxidative and biotic stress responses in the Arabidopsis frd3 mutant. <i>Plant Journal</i> , <b>2020</b> , 102, 34-52	6.9	13
233	A convenient protein library for spectroscopic calibrations. <i>Computational and Structural Biotechnology Journal</i> , <b>2020</b> , 18, 1864-1876	6.8	5
232	Membrane targeting antimicrobial cyclic peptide nanotubes - an experimental and computational study. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2020</b> , 196, 111349	6	6

231	An Innovative Platform Merging Elemental Analysis and Ftir Imaging for Breast Tissue Analysis. <i>Scientific Reports</i> , <b>2019</b> , 9, 9854	4.9	11
230	Atmospheric Pressure Plasma Deposition of Hydrophilic/Phobic Patterns and Thin Film Laminates on Any Surface. <i>Langmuir</i> , <b>2019</b> , 35, 9677-9683	4	15
229	Polarized Attenuated total Reflection Infrared Spectroscopy as a tool to Investigate the Conformation and Orientation of Membrane Components <b>2019</b> , 285-330		3
228	Discrimination of breast cancer from benign tumours using Raman spectroscopy. <i>PLoS ONE</i> , <b>2019</b> , 14, e0212376	3.7	25
227	Gene expression data and FTIR spectra provide a similar phenotypic description of breast cancer cell lines in 2D and 3D cultures. <i>Analyst, The</i> , <b>2018</b> , 143, 2520-2530	5	10
226	Deciphering the biochemical similarities and differences among mouse embryonic stem cells, somatic and cancer cells using ATR-FTIR spectroscopy. <i>Analyst, The</i> , <b>2018</b> , 143, 1624-1634	5	17
225	Grafting of Oligo(ethylene glycol)-Functionalized Calix[4]arene-Tetradiazonium Salts for Antifouling Germanium and Gold Surfaces. <i>Langmuir</i> , <b>2018</b> , 34, 6021-6027	4	14
224	A simple model for cell type recognition using 2D-correlation analysis of FTIR images from breast cancer tissue. <i>Journal of Molecular Structure</i> , <b>2018</b> , 1163, 472-479	3.4	13
223	Insights into Biochemical Alteration in Cancer-Associated Fibroblasts by using Novel Correlative Spectroscopy. <i>ChemistryOpen</i> , <b>2017</b> , 6, 149-157	2.3	5
222	Infrared imaging of high density protein arrays. <i>Analyst, The</i> , <b>2017</b> , 142, 1371-1380	5	17
221	HTS-FTIR spectroscopy allows the classification of polyphenols according to their differential effects on the MDA-MB-231 breast cancer cell line. <i>Analyst, The</i> , <b>2017</b> , 142, 1244-1257	5	8
220	Infrared imaging in histopathology: Is a unified approach possible?. <i>Biomedical Spectroscopy and Imaging</i> , <b>2017</b> , 5, 325-346	1.3	16
219	Intracellular investigation on the differential effects of 4 polyphenols on MCF-7 breast cancer cells by Raman imaging. <i>Analyst, The</i> , <b>2017</b> , 143, 258-269	5	14
218	FTIR spectral signature of anticancer drugs. Can drug mode of action be identified?. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , <b>2016</b> , 1864, 85-101	4	35
217	Analysis of protein microarrays by FTIR imaging. <i>Biomedical Spectroscopy and Imaging</i> , <b>2016</b> , 5, 145-154	1.3	16
216	Infrared spectra of primary melanomas can predict response to chemotherapy: The example of dacarbazine. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , <b>2016</b> , 1862, 174-81	6.9	14
215	FTIR imaging of the 3D extracellular matrix used to grow colonies of breast cancer cell lines. <i>Analyst, The</i> , <b>2016</b> , 141, 620-9	5	7
214	Identification of melanoma cells and lymphocyte subpopulations in lymph node metastases by FTIR imaging histopathology. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , <b>2016</b> , 1862, 202-12	6.9	21

213	Characterization of human breast cancer tissues by infrared imaging. <i>Analyst, The</i> , <b>2016</b> , 141, 606-19	5	45
212	FTIR imaging of MCF-7 colonies and their vicinity in Matrigel-embedded 3D cultures. <i>Biomedical Spectroscopy and Imaging</i> , <b>2016</b> , 5, 155-166	1.3	1
211	The unexpected structure of the designed protein Octarellin V.1 forms a challenge for protein structure prediction tools. <i>Journal of Structural Biology</i> , <b>2016</b> , 195, 19-30	3.4	11
210	Structural and Functional Investigation of the Ag(+)/Cu(+) Binding Domains of the Periplasmic Adaptor Protein SilB from <i>Cupriavidus metallidurans</i> CH34. <i>Biochemistry</i> , <b>2016</b> , 55, 2883-97	3.2	4
209	Biophysical characterization data of the artificial protein Octarellin V.1 and binding test with its X-ray helpers. <i>Data in Brief</i> , <b>2016</b> , 8, 1221-6	1.2	1
208	Label-free phenotyping of peripheral blood lymphocytes by infrared imaging. <i>Analyst, The</i> , <b>2015</b> , 140, 2247-56	5	12
207	An infrared spectral signature of human lymphocyte subpopulations from peripheral blood. <i>Analyst, The</i> , <b>2015</b> , 140, 2257-65	5	10
206	High throughput absorbance spectra of cancerous cells: a microscopic investigation of spectral artifacts. <i>Analyst, The</i> , <b>2015</b> , 140, 2393-401	5	6
205	Intraspecific variability of cadmium tolerance and accumulation, and cadmium-induced cell wall modifications in the metal hyperaccumulator <i>Arabidopsis halleri</i> . <i>Journal of Experimental Botany</i> , <b>2015</b> , 66, 3215-27	7	83
204	Changes in the microenvironment of invading melanoma and carcinoma cells identified by FTIR imaging. <i>Vibrational Spectroscopy</i> , <b>2015</b> , 79, 24-30	2.1	12
203	Palmitoylation as a key factor to modulate SP-C-lipid interactions in lung surfactant membrane multilayers. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2015</b> , 1848, 184-91	3.8	17
202	Differentiation of Anatolian honey samples from different botanical origins by ATR-FTIR spectroscopy using multivariate analysis. <i>Food Chemistry</i> , <b>2015</b> , 170, 234-40	8.5	112
201	Simultaneous Fitting of Absorption Spectra and Their Second Derivatives for an Improved Analysis of Protein Infrared Spectra. <i>Molecules</i> , <b>2015</b> , 20, 12599-622	4.8	46
200	Infrared imaging of primary melanomas reveals hints of regional and distant metastases. <i>Analyst, The</i> , <b>2015</b> , 140, 2144-55	5	28
199	Infrared imaging of MDA-MB-231 breast cancer cell line phenotypes in 2D and 3D cultures. <i>Analyst, The</i> , <b>2015</b> , 140, 2336-43	5	20
198	Influence of Solubilizing Group Removal Rate on the Morphology and Crystallinity of a Diketopyrrolopyrrole-Based Compound. <i>Crystal Growth and Design</i> , <b>2014</b> , 14, 339-349	3.5	15
197	Lipid quantification method using FTIR spectroscopy applied on cancer cell extracts. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , <b>2014</b> , 1841, 1200-9	5	52
196	Infrared imaging in breast cancer: automated tissue component recognition and spectral characterization of breast cancer cells as well as the tumor microenvironment. <i>Analyst, The</i> , <b>2014</b> , 139, 1044-56	5	55

195	Surface photografting of arylazide derivatives on chalcogenide glasses. <i>Journal of Non-Crystalline Solids</i> , <b>2014</b> , 387, 148-154	3.9	4
194	Synthesis and in vitro characterization of platinum(II) anticancer coordinates using FTIR spectroscopy and NCI COMPARE: A fast method for new compound discovery. <i>Bioorganic and Medicinal Chemistry</i> , <b>2014</b> , 22, 3527-36	3.4	11
193	A FTIR imaging characterization of fibroblasts stimulated by various breast cancer cell lines. <i>PLoS ONE</i> , <b>2014</b> , 9, e111137	3.7	32
192	ATR-FTIR: a "rejuvenated" tool to investigate amyloid proteins. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2013</b> , 1828, 2328-38	3.8	239
191	FTIR spectroscopy: a new valuable tool to classify the effects of polyphenolic compounds on cancer cells. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , <b>2013</b> , 1832, 46-56	6.9	44
190	FTIR spectral signature of anticancer drug effects on PC-3 cancer cells: is there any influence of the cell cycle?. <i>Analyst, The</i> , <b>2013</b> , 138, 3998-4005	5	18
189	Change in the microenvironment of breast cancer studied by FTIR imaging. <i>Analyst, The</i> , <b>2013</b> , 138, 4058-65	5.65	65
188	A new dimension for cell identification by FTIR spectroscopy: depth profiling in attenuated total reflection. <i>Analyst, The</i> , <b>2013</b> , 138, 4070-5	5	19
187	Breast cancer and melanoma cell line identification by FTIR imaging after formalin-fixation and paraffin-embedding. <i>Analyst, The</i> , <b>2013</b> , 138, 4083-91	5	39
186	Photoactivable Nonsymmetrical Bifunctional Linkers for Protein Immobilization on Attenuated Total Reflectance FTIR Optical Devices. <i>European Journal of Organic Chemistry</i> , <b>2013</b> , 2013, 7952-7959	3.2	6
185	Structures of intermediate transport states of ZneA, a Zn(II)/proton antiporter. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 18484-9	11.5	38
184	Metal binding properties and structure of a type III metallothionein from the metal hyperaccumulator plant <i>Noccaea caerulescens</i> . <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , <b>2012</b> , 1824, 1016-23	4	14
183	The effect of anticancer drugs on seven cell lines monitored by FTIR spectroscopy. <i>Analyst, The</i> , <b>2012</b> , 137, 3255-64	5	46
182	Aptamer-based molecular recognition of lysergamine, metergoline and small ergot alkaloids. <i>International Journal of Molecular Sciences</i> , <b>2012</b> , 13, 17138-59	6.3	18
181	Toxic prefibrillar $\beta$ synuclein amyloid oligomers adopt a distinctive antiparallel $\beta$ sheet structure. <i>Biochemical Journal</i> , <b>2012</b> , 443, 719-26	3.8	166
180	Organization and dynamics of Fas transmembrane domain in raft membranes and modulation by ceramide. <i>Biophysical Journal</i> , <b>2011</b> , 101, 1632-41	2.9	22
179	Amphipols from A to Z. <i>Annual Review of Biophysics</i> , <b>2011</b> , 40, 379-408	21.1	200
178	The FTIR spectrum of prostate cancer cells allows the classification of anticancer drugs according to their mode of action. <i>Analyst, The</i> , <b>2011</b> , 136, 1134-41	5	59

177	Ouabain-induced modifications of prostate cancer cell lipidome investigated with mass spectrometry and FTIR spectroscopy. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2011</b> , 1808, 597-605 <sup>3.8</sup>		21
176	Time dependence of cellular chemical changes induced in prostate PC-3 cancer cells by two structurally related cardenolides monitored by Fourier transform infrared (FT-IR) spectroscopy. <i>Applied Spectroscopy</i> , <b>2011</b> , 65, 584-94	3.1	16
175	Transformation of amyloid $\alpha$ (1-40) oligomers into fibrils is characterized by a major change in secondary structure. <i>Cellular and Molecular Life Sciences</i> , <b>2011</b> , 68, 1429-38	10.3	106
174	High ability of apolipoprotein E4 to stabilize amyloid- $\beta$ peptide oligomers, the pathological entities responsible for Alzheimer's disease. <i>FASEB Journal</i> , <b>2011</b> , 25, 1585-95	0.9	67
173	Data processing in FTIR imaging of cells: Towards protein secondary structure imaging. <i>Spectroscopy</i> , <b>2010</b> , 24, 51-54		2
172	Monitoring of metabolism perturbation in prostate PC-3 cancer cells by sub-lethal concentrations of methotrexate. <i>Spectroscopy</i> , <b>2010</b> , 24, 55-60		6
171	ATR-FTIR, a new tool to analyze the oligomeric content of A $\beta$ samples in the presence of apolipoprotein E isoforms. <i>Spectroscopy</i> , <b>2010</b> , 24, 245-249		4
170	FTIR spectroscopy reveals the concentration dependence of cellular modifications induced by anticancer drugs. <i>Spectroscopy</i> , <b>2010</b> , 24, 45-49		9
169	Discrimination between healthy and tumor tissues on formalin-fixed paraffin-embedded breast cancer samples using IR imaging. <i>Spectroscopy</i> , <b>2010</b> , 24, 67-72		20
168	Gastric ATPase phosphorylation/dephosphorylation monitored by new FTIR-based BIA-ATR biosensors. <i>Spectroscopy</i> , <b>2010</b> , 24, 257-260		5
167	The N-terminal domain of the enzyme I is a monomeric well-folded protein with a low conformational stability and residual structure in the unfolded state. <i>Protein Engineering, Design and Selection</i> , <b>2010</b> , 23, 729-42	1.9	6
166	Fourier transform infrared (FTIR) spectroscopy to monitor the cellular impact of newly synthesized platinum derivatives. <i>International Journal of Oncology</i> , <b>2010</b> , 37, 679-86	4.4	5
165	Effects of the confluence rate on the FTIR spectrum of PC-3 prostate cancer cells in culture. <i>Analyst, The</i> , <b>2010</b> , 135, 3048-51	5	21
164	The basic helix-loop-helix region of human neurogenin 1 is a monomeric natively unfolded protein which forms a "fuzzy" complex upon DNA binding. <i>Biochemistry</i> , <b>2010</b> , 49, 1577-89	3.2	32
163	FTIR spectral signature of the effect of cardiotoxic steroids with antitumoral properties on a prostate cancer cell line. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , <b>2010</b> , 1802, 1087-94	6.9	33
162	Development of a quantitative and conformation-sensitive ATR-FTIR biosensor for Alzheimer's disease: The effect of deuteration on the detection of the A $\beta$ peptide. <i>Spectroscopy</i> , <b>2010</b> , 24, 61-66		13
161	Antiparallel beta-sheet: a signature structure of the oligomeric amyloid beta-peptide. <i>Biochemical Journal</i> , <b>2009</b> , 421, 415-23	3.8	354
160	Ligand-receptor interactions in complex media: a new type of biosensors for the detection of coagulation factor VIII. <i>Biosensors and Bioelectronics</i> , <b>2009</b> , 24, 1831-6	11.8	16

159	Surface functionalization of germanium ATR devices for use in FTIR-biosensors. <i>Journal of Colloid and Interface Science</i> , <b>2009</b> , 332, 408-15	9.3	44
158	Protein secondary structure content in solution, films and tissues: redundancy and complementarity of the information content in circular dichroism, transmission and ATR FTIR spectra. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , <b>2009</b> , 1794, 1332-43	4	93
157	IR spectroscopy as a new tool for evidencing antitumor drug signatures. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2009</b> , 1788, 1263-70	3.8	85
156	Cholesterol modulates the exposure and orientation of pulmonary surfactant protein SP-C in model surfactant membranes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2009</b> , 1788, 1907-15	3.8	21
155	Pulmonary surfactant protein SP-C counteracts the deleterious effects of cholesterol on the activity of surfactant films under physiologically relevant compression-expansion dynamics. <i>Biophysical Journal</i> , <b>2009</b> , 97, 2736-45	2.9	48
154	Characterization of the interactions between fluoroquinolone antibiotics and lipids: a multitechnique approach. <i>Biophysical Journal</i> , <b>2008</b> , 94, 3035-46	2.9	33
153	Energetics and partition of two cecropin-melittin hybrid peptides to model membranes of different composition. <i>Biophysical Journal</i> , <b>2008</b> , 94, 2128-41	2.9	41
152	Interactions of ciprofloxacin with DPPC and DPPG: fluorescence anisotropy, ATR-FTIR and <sup>31</sup> P NMR spectroscopies and conformational analysis. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2008</b> , 1778, 2535-43	3.8	73
151	FTIR-ATR biosensor based on self-assembled phospholipids surface: Haemophilia factor VIII diagnosis. <i>Spectroscopy</i> , <b>2008</b> , 22, 223-234		6
150	Biochemical interaction analysis on ATR devices: a wet chemistry approach for surface functionalization. <i>Langmuir</i> , <b>2007</b> , 23, 949-55	4	34
149	Infrared spectroscopy study on the conformational changes leading to pore formation of the toxin sticholysin II. <i>Biophysical Journal</i> , <b>2007</b> , 93, 3191-201	2.9	34
148	The integrin binding site 2 (IBS2) in the talin rod domain is essential for linking integrin beta subunits to the cytoskeleton. <i>Journal of Biological Chemistry</i> , <b>2007</b> , 282, 17280-8	5.4	47
147	Detection of apolipoprotein B100 early conformational changes during oxidation. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2007</b> , 1768, 2923-30	3.8	7
146	Translocation of amino acyl residues from the membrane interface to the hydrophobic core: thermodynamic model and experimental analysis using ATR-FTIR spectroscopy. <i>Molecular Membrane Biology</i> , <b>2006</b> , 23, 363-74	3.4	21
145	Interactions involved in the realignment of membrane-associated helices. An investigation using oriented solid-state NMR and attenuated total reflection Fourier transform infrared spectroscopies. <i>Journal of Biological Chemistry</i> , <b>2006</b> , 281, 7708-16	5.4	35
144	Characteristics of fibers formed by cytochrome c and induced by anionic phospholipids. <i>Biochemistry</i> , <b>2006</b> , 45, 13447-53	3.2	31
143	Conformational and orientational guidance of the analgesic dipeptide kyotorphin induced by lipidic membranes: putative correlation toward receptor docking. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 3385-94	3.4	15
142	Evaluation of the information content in infrared spectra for protein secondary structure determination. <i>Biophysical Journal</i> , <b>2006</b> , 90, 2946-57	2.9	286



141	Chapter 1 Piercing Lipid Bilayers with Peptides. <i>Behavior Research Methods</i> , <b>2006</b> , 5, 1-23	6.1	2
140	Cell discrimination by attenuated total reflection-Fourier transform infrared spectroscopy: the impact of preprocessing of spectra. <i>Applied Spectroscopy</i> , <b>2006</b> , 60, 1022-8	3.1	26
139	Chemometric tools for classification and elucidation of protein secondary structure from infrared and circular dichroism spectroscopic measurements. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2006</b> , 63, 527-41	4.2	48
138	The papaya Kunitz-type trypsin inhibitor is a highly stable beta-sheet glycoprotein. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , <b>2006</b> , 1764, 1063-72	4	56
137	Effect of the antibiotic azithromycin on thermotropic behavior of DOPC or DPPC bilayers. <i>Chemistry and Physics of Lipids</i> , <b>2006</b> , 144, 108-16	3.7	46
136	Modulation of the membrane orientation and secondary structure of the C-terminal domains of Bak and Bcl-2 by lipids. <i>Biochemistry</i> , <b>2005</b> , 44, 10796-809	3.2	13
135	Sensor applications of attenuated total reflection infrared spectroscopy. <i>Talanta</i> , <b>2005</b> , 65, 1132-42	6.2	54
134	Orientation and mode of lipid-binding interaction of human apolipoprotein E C-terminal domain. <i>Biochemical Journal</i> , <b>2005</b> , 387, 747-54	3.8	26
133	Evidence of an intramolecular interaction between the two domains of the BlaR1 penicillin receptor during the signal transduction. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 14264-72	5.4	26
132	Phosphorylation-induced conformational changes of cystic fibrosis transmembrane conductance regulator monitored by attenuated total reflection-Fourier transform IR spectroscopy and fluorescence spectroscopy. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 5528-36	5.4	24
131	The optimization of protein secondary structure determination with infrared and circular dichroism spectra. <i>FEBS Journal</i> , <b>2004</b> , 271, 2937-48		137
130	Hydrogen-deuterium exchange in membrane proteins monitored by IR spectroscopy: a new tool to resolve protein structure and dynamics. <i>Biopolymers</i> , <b>2004</b> , 74, 19-26	2.2	45
129	Filipin orientation revealed by linear dichroism. Implication for a model of action. <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 5396-402	16.4	21
128	Evaluation of the ordering of membranes in multilayer stacks built on an ATR-FTIR germanium crystal with atomic force microscopy: the case of the H(+),K(+)-ATPase-containing gastric tubulovesicle membranes. <i>Biophysical Journal</i> , <b>2004</b> , 87, 1307-15	2.9	12
127	The infrared spectrum of human glioma cells is related to their in vitro and in vivo behavior. <i>Experimental Cell Research</i> , <b>2004</b> , 297, 294-301	4.2	30
126	Analysis of <sup>1</sup> H/ <sup>2</sup> H exchange kinetics using model infrared spectra. <i>Applied Spectroscopy</i> , <b>2004</b> , 58, 68-82	3.1	39
125	Conformational changes in gastric H <sup>+</sup> /K <sup>+</sup> -ATPase monitored by difference Fourier-transform infrared spectroscopy and hydrogen/deuterium exchange. <i>Biochemical Journal</i> , <b>2004</b> , 382, 121-9	3.8	25
124	Structure and function of plant membrane ion channels reconstituted in planar lipid bilayers. <i>Membrane Science and Technology</i> , <b>2003</b> , 449-478		



123	Characterization of a potent human interleukin-11 agonist. <i>Biochemical Journal</i> , <b>2003</b> , 375, 23-32	3.8	24
122	Rationally selected basis proteins: a new approach to selecting proteins for spectroscopic secondary structure analysis. <i>Protein Science</i> , <b>2003</b> , 12, 2015-31	6.3	40
121	Protein concentration is not an absolute prerequisite for the determination of secondary structure from circular dichroism spectra: a new scaling method. <i>Analytical Biochemistry</i> , <b>2003</b> , 319, 114-21	3.1	108
120	Protonation of the <i>Neurospora crassa</i> plasma membrane H <sup>+</sup> -ATPase as a function of pH monitored by ATR-FTIR. <i>Annals of the New York Academy of Sciences</i> , <b>2003</b> , 986, 347-8	6.5	2
119	Detection of structural and functional asymmetries in P-glycoprotein by combining mutagenesis and H/D exchange measurements. <i>Chemistry and Physics of Lipids</i> , <b>2003</b> , 122, 121-35	3.7	12
118	Attenuated total reflection IR spectroscopy as a tool to investigate the orientation and tertiary structure changes in fusion proteins. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2003</b> , 1614, 97-103	3.8	27
117	Reconstitution of holin activity with a synthetic peptide containing the 1-32 sequence region of EJh, the EJ-1 phage holin. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 3929-36	5.4	12
116	Conformational changes of the 120-kDa Na <sup>+</sup> /Ca <sup>2+</sup> exchanger protein upon ligand binding: a Fourier transform infrared spectroscopy study. <i>Annals of the New York Academy of Sciences</i> , <b>2002</b> , 976, 97-9	6.5	
115	Infrared spectroscopy as a tool for discrimination between sensitive and multiresistant K562 cells. <i>FEBS Journal</i> , <b>2002</b> , 269, 1968-73		44
114	Modeling the three-dimensional structure of H <sup>+</sup> -ATPase of <i>Neurospora crassa</i> . <i>FEBS Journal</i> , <b>2002</b> , 269, 5246-58		4
113	Insight into the factors influencing the backbone dynamics of three homologous proteins, dendrotoxins I and K, and BPTI: FTIR and time-resolved fluorescence investigations. <i>Biochemistry</i> , <b>2002</b> , 41, 15267-76	3.2	2
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