

# Erik Goormaghtigh

## List of Publications by Year in descending order

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251  
papers

12,115  
citations

26567

56  
h-index

34900

98  
g-index

254  
all docs

254  
docs citations

254  
times ranked

10869  
citing authors

#	ARTICLE	IF	CITATIONS
1	Attenuated total reflection infrared spectroscopy of proteins and lipids in biological membranes. BBA - Biomembranes, 1999, 1422, 105-185.	7.9	532
2	Secondary structure and dosage of soluble and membrane proteins by attenuated total reflection Fourier-transform infrared spectroscopy on hydrated films. FEBS Journal, 1990, 193, 409-420.	0.2	479
3	Antiparallel $\beta^2$ -sheet: a signature structure of the oligomeric amyloid $\beta^2$ -peptide. Biochemical Journal, 2009, 421, 415-423.	1.7	445
4	Evaluation of the Information Content in Infrared Spectra for Protein Secondary Structure Determination. Biophysical Journal, 2006, 90, 2946-2957.	0.2	341
5	ATR-FTIR: A $\beta$ -rejuvenated $\beta$ -tool to investigate amyloid proteins. Biochimica Et Biophysica Acta - Biomembranes, 2013, 1828, 2328-2338.	1.4	338
6	Determination of Soluble and Membrane Protein Structure by Fourier Transform Infrared Spectroscopy. Sub-Cellular Biochemistry, 1994, 23, 405-450.	1.0	324
7	Evidence of a specific complex between adriamycin and negatively-charged phospholipids. Biochimica Et Biophysica Acta - Biomembranes, 1980, 597, 1-14.	1.4	288
8	Determination of Soluble and Membrane Protein Structure by Fourier Transform Infrared Spectroscopy. Sub-Cellular Biochemistry, 1994, 23, 329-362.	1.0	260
9	Amphipols From A to Z. Annual Review of Biophysics, 2011, 40, 379-408.	4.5	226
10	Toxic prefibrillar $\beta^2$ -synuclein amyloid oligomers adopt a distinctive antiparallel $\beta^2$ -sheet structure. Biochemical Journal, 2012, 443, 719-726.	1.7	215
11	Structure of the adriamycin-cardiolipin complex. Biophysical Chemistry, 1990, 35, 247-257.	1.5	172
12	Sensitivity of Single Membrane-Spanning $\beta^2$ -Helical Peptides to Hydrophobic Mismatch with a Lipid Bilayer: $\beta$ Effects on Backbone Structure, Orientation, and Extent of Membrane Incorporation. Biochemistry, 2001, 40, 5000-5010.	1.2	171
13	Anthracycline glycoside-membrane interactions. BBA - Biomembranes, 1984, 779, 271-288.	7.9	155
14	The optimization of protein secondary structure determination with infrared and circular dichroism spectra. FEBS Journal, 2004, 271, 2937-2948.	0.2	155
15	Differentiation of Anatolian honey samples from different botanical origins by ATR-FTIR spectroscopy using multivariate analysis. Food Chemistry, 2015, 170, 234-240.	4.2	154
16	Evidence of a complex between adriamycin derivatives and cardiolipin: Possible role in cardiotoxicity. Biochemical Pharmacology, 1980, 29, 3003-3010.	2.0	149
17	Adriamycin inactivates cytochrome c oxidase by exclusion of the enzyme from its cardiolipin essential environment. Biochemical and Biophysical Research Communications, 1982, 104, 314-320.	1.0	148
18	Membrane Helix Orientation from Linear Dichroism of Infrared Attenuated Total Reflection Spectra. Biophysical Journal, 1999, 76, 552-563.	0.2	141

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19	Transformation of amyloid A $\beta$ (1-40) oligomers into fibrils is characterized by a major change in secondary structure. <i>Cellular and Molecular Life Sciences</i> , 2011, 68, 1429-1438.	2.4	129
20	Secondary Structure of Diphtheria Toxin and Its Fragments Interacting with acidic Liposomes Studied by Polarized Infrared Spectroscopy. <i>Journal of Biological Chemistry</i> , 1989, 264, 4928-4938.	1.6	129
21	Secondary and Tertiary Structure Changes of Reconstituted P-glycoprotein. <i>Journal of Biological Chemistry</i> , 1996, 271, 24617-24624.	1.6	128
22	Determination of Soluble and Membrane Protein Structure by Fourier Transform Infrared Spectroscopy. <i>Sub-Cellular Biochemistry</i> , 1994, 23, 363-403.	1.0	124
23	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> , 2015, 66, 3215-3227.	2.4	120
24	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> , 2003, 319, 114-121.	1.1	117
25	The Different Molar Absorptivities of the Secondary Structure Types in the Amide I Region: An Attenuated Total Reflection Infrared Study on Globular Proteins. <i>Analytical Biochemistry</i> , 1996, 242, 95-103.	1.1	109
26	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> , 2009, 1794, 1332-1343.	1.1	107
27	Secondary structure of diphtheria toxin and its fragments interacting with acidic liposomes studied by polarized infrared spectroscopy. <i>Journal of Biological Chemistry</i> , 1989, 264, 4928-38.	1.6	104
28	Mode of assembly of amphipathic helical segments in model high-density lipoproteins. <i>Lipids and Lipid Metabolism</i> , 1990, 1043, 245-252.	2.6	103
29	IR spectroscopy as a new tool for evidencing antitumor drug signatures. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2009, 1788, 1263-1270.	1.4	100
30	Analysis of Circular Dichroism Spectra of Oriented Protein-Lipid Complexes: Toward a General Application. <i>Biochemistry</i> , 1994, 33, 14521-14528.	1.2	99
31	Secondary Structure and Membrane Interaction of PR-39, a Pro+Arg-rich Antibacterial Peptide. <i>FEBS Journal</i> , 1994, 224, 1019-1027.	0.2	97
32	Attenuated total reflection IR spectroscopy as a tool to investigate the structure, orientation and tertiary structure changes in peptides and membrane proteins. <i>Biopolymers</i> , 2000, 55, 373-380.	1.2	97
33	The Low Density Lipoprotein Receptor Active Conformation of Apolipoprotein E. <i>Journal of Biological Chemistry</i> , 1998, 273, 25825-25830.	1.6	89
34	High ability of apolipoprotein E4 to stabilize amyloid A $\beta$ peptide oligomers, the pathological entities responsible for Alzheimer's disease. <i>FASEB Journal</i> , 2011, 25, 1585-1595.	0.2	83
35	Change in the microenvironment of breast cancer studied by FTIR imaging. <i>Analyst, The</i> , 2013, 138, 4058.	1.7	82
36	Monomers of the <i>Neurospora</i> plasma membrane H <sup>+</sup> -ATPase catalyze efficient proton translocation.. <i>Journal of Biological Chemistry</i> , 1986, 261, 7466-7471.	1.6	79

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37	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> , 2008, 1778, 2535-2543.	1.4	78
38	Tertiary conformational changes of the <i>Neurospora crassa</i> plasma membrane H(+)-ATPase monitored by hydrogen/deuterium exchange kinetics. A Fourier transformed infrared spectroscopy approach.. <i>Journal of Biological Chemistry</i> , 1994, 269, 27409-27413.	1.6	78
39	Tertiary stability of native and methionine-80 modified cytochrome c detected by proton-deuterium exchange using online Fourier transform infrared spectroscopy. <i>Biochemistry</i> , 1995, 34, 172-179.	1.2	75
40	The FTIR spectrum of prostate cancer cells allows the classification of anticancer drugs according to their mode of action. <i>Analyst, The</i> , 2011, 136, 1134.	1.7	73
41	Study of the adriamycin-cardiolipin complex structure using attenuated total reflection infrared spectroscopy. <i>Biochemistry</i> , 1987, 26, 1789-1794.	1.2	72
42	Mitochondrial membrane modifications induced by adriamycin-mediated electron transport. <i>Biochemical Pharmacology</i> , 1983, 32, 889-893.	2.0	70
43	Secondary structure and orientation of the amphipathic peptide GALA in lipid structures. An infrared-spectroscopic approach. <i>FEBS Journal</i> , 1991, 195, 421-429.	0.2	69
44	Mechanism of inhibition of mitochondrial enzymatic complex I by adriamycin derivatives. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1986, 861, 83-94.	1.4	67
45	A hexameric form of the <i>Neurospora crassa</i> plasma membrane H <sup>+</sup> -ATPase. <i>Archives of Biochemistry and Biophysics</i> , 1987, 252, 348-356.	1.4	67
46	Lipid and peptide specificities in signal peptide-lipid interactions in model membranes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1990, 1027, 155-162.	1.4	66
47	Lipid quantification method using FTIR spectroscopy applied on cancer cell extracts. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2014, 1841, 1200-1209.	1.2	65
48	Simultaneous Fitting of Absorption Spectra and Their Second Derivatives for an Improved Analysis of Protein Infrared Spectra. <i>Molecules</i> , 2015, 20, 12599-12622.	1.7	65
49	The papaya Kunitz-type trypsin inhibitor is a highly stable $\beta^2$ -sheet glycoprotein. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2006, 1764, 1063-1072.	1.1	63
50	Characterization of human breast cancer tissues by infrared imaging. <i>Analyst, The</i> , 2016, 141, 606-619.	1.7	63
51	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> , 2014, 139, 1044.	1.7	62
52	Monomers of the <i>Neurospora</i> plasma membrane H <sup>+</sup> -ATPase catalyze efficient proton translocation. <i>Journal of Biological Chemistry</i> , 1986, 261, 7466-71.	1.6	61
53	Amide-Proton Exchange of Water-Soluble Proteins of Different Structural Classes Studied at the Submolecular Level by Infrared Spectroscopy. <i>Biochemistry</i> , 1997, 36, 13603-13610.	1.2	58
54	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> , 2009, 97, 2736-2745.	0.2	58

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55	Evaluation of the secondary structure of apo B-100 in low-density lipoprotein (LDL) by infrared spectroscopy. <i>Lipids and Lipid Metabolism</i> , 1989, 1006, 147-150.	2.6	57
56	Lipid membrane binding of NK-lysin. <i>FEBS Letters</i> , 1998, 425, 341-344.	1.3	57
57	Sensor applications of attenuated total reflection infrared spectroscopy. <i>Talanta</i> , 2005, 65, 1132-1142.	2.9	57
58	Tertiary conformational changes of the <i>Neurospora crassa</i> plasma membrane H(+)-ATPase monitored by hydrogen/deuterium exchange kinetics. A Fourier transformed infrared spectroscopy approach. <i>Journal of Biological Chemistry</i> , 1994, 269, 27409-13.	1.6	57
59	Hydrogen/Deuterium Exchange Kinetics of Apolipoprotein-III in Lipid-free and Phospholipid-bound States. <i>Journal of Biological Chemistry</i> , 1996, 271, 23089-23095.	1.6	56
60	Theoretical conformational analysis of phospholipids bilayers. <i>Biochemical and Biophysical Research Communications</i> , 1981, 103, 301-310.	1.0	55
61	Adriamycin inhibits the formation of non-bilayer lipid structures in cardiolipin-containing model membranes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1982, 685, 137-143.	1.4	55
62	Effect of the antibiotic azithromycin on thermotropic behavior of DOPC or DPPC bilayers. <i>Chemistry and Physics of Lipids</i> , 2006, 144, 108-116.	1.5	55
63	The Integrin Binding Site 2 (IBS2) in the Talin Rod Domain Is Essential for Linking Integrin $\beta^2$ Subunits to the Cytoskeleton. <i>Journal of Biological Chemistry</i> , 2007, 282, 17280-17288.	1.6	54
64	Sequence and Structure of the Membrane-Associated Peptide of Glycophorin A. <i>Biochemistry</i> , 1994, 33, 6902-6910.	1.2	53
65	Alignment of the Apolipoprotein-III $\alpha$ -Helices in Complex with Dimyristoylphosphatidylcholine. <i>Journal of Biological Chemistry</i> , 1995, 270, 12542-12547.	1.6	52
66	Chemometric tools for classification and elucidation of protein secondary structure from infrared and circular dichroism spectroscopic measurements. <i>Proteins: Structure, Function and Bioinformatics</i> , 2006, 63, 527-541.	1.5	52
67	Secondary structure of the particle associating domain of apolipoprotein B-100 in low-density lipoprotein by attenuated total reflection infrared spectroscopy. <i>Biochemistry</i> , 1993, 32, 6104-6110.	1.2	51
68	Secondary structure of the membrane-bound form of the pore-forming domain of colicin A. An attenuated total-reflection polarized Fourier-transform infrared spectroscopy study. <i>FEBS Journal</i> , 1991, 202, 1299-1305.	0.2	50
69	Infrared spectroscopy as a tool for discrimination between sensitive and multiresistant K562 cells. <i>FEBS Journal</i> , 2002, 269, 1968-1973.	0.2	50
70	Hydrogen-deuterium exchange in membrane proteins monitored by IR spectroscopy: A new tool to resolve protein structure and dynamics. <i>Biopolymers</i> , 2004, 74, 19-26.	1.2	49
71	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> , 2013, 110, 18484-18489.	3.3	49
72	HER2 biosensing through SPR-envelope tracking in plasmonic optical fiber gratings. <i>Biomedical Optics Express</i> , 2020, 11, 4862.	1.5	49

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73	Hydrogen-Deuterium Exchange of Streptavidin and Its Complex with Biotin Studied by 2D-Attenuated Total Reflection Fourier Transform Infrared Spectroscopy. <i>Journal of the American Chemical Society</i> , 1999, 121, 5115-5122.	6.6	48
74	The effect of anticancer drugs on seven cell lines monitored by FTIR spectroscopy. <i>Analyst, The</i> , 2012, 137, 3255.	1.7	48
75	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> , 2013, 1832, 46-56.	1.8	48
76	Fourier Transform Infrared Spectroscopy Study of the Secondary Structure of the Gastric H <sup>+</sup> ,K <sup>+</sup> -ATPase and of Its Membrane-associated Proteolytic Peptides. <i>Journal of Biological Chemistry</i> , 1997, 272, 262-270.	1.6	45
77	Surface functionalization of germanium ATR devices for use in FTIR-biosensors. <i>Journal of Colloid and Interface Science</i> , 2009, 332, 408-415.	5.0	45
78	FTIR spectral signature of anticancer drugs. Can drug mode of action be identified?. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2016, 1864, 85-101.	1.1	45
79	Monitoring Structural Stability of Trypsin Inhibitor at the Submolecular Level by Amide-Proton Exchange Using Fourier Transform Infrared Spectroscopy: A Test Case for More General Application. <i>Biochemistry</i> , 1997, 36, 13593-13602.	1.2	44
80	Structure and Orientation of Two Voltage-dependent Anion-selective Channel Isoforms. <i>Journal of Biological Chemistry</i> , 2000, 275, 40992-40999.	1.6	44
81	Analysis of 1H/2H Exchange Kinetics Using Model Infrared Spectra. <i>Applied Spectroscopy</i> , 2004, 58, 68-82.	1.2	44
82	Secondary structure and orientation of a chemically synthesized mitochondrial signal sequence in phospholipid bilayers. <i>Biochemical and Biophysical Research Communications</i> , 1989, 158, 610-616.	1.0	43
83	Rationally selected basis proteins: A new approach to selecting proteins for spectroscopic secondary structure analysis. <i>Protein Science</i> , 2003, 12, 2015-2031.	3.1	43
84	Energetics and Partition of Two Cecropin-Melittin Hybrid Peptides to Model Membranes of Different Composition. <i>Biophysical Journal</i> , 2008, 94, 2128-2141.	0.2	43
85	Breast cancer and melanoma cell line identification by FTIR imaging after formalin-fixation and paraffin-embedding. <i>Analyst, The</i> , 2013, 138, 4083.	1.7	43
86	FTIR spectroscopy as an analytical tool to compare glycosylation in therapeutic monoclonal antibodies. <i>Analytica Chimica Acta</i> , 2020, 1112, 62-71.	2.6	43
87	Relevance of Protein Thin Films Prepared for Attenuated Total Reflection Fourier Transform Infrared Spectroscopy: Significance of the pH. <i>Applied Spectroscopy</i> , 1996, 50, 1519-1527.	1.2	42
88	A FTIR Imaging Characterization of Fibroblasts Stimulated by Various Breast Cancer Cell Lines. <i>PLoS ONE</i> , 2014, 9, e111137.	1.1	42
89	Mode of insertion of praziquantel and derivatives into lipid membranes. <i>Biochemical Pharmacology</i> , 1988, 37, 1615-1623.	2.0	41
90	Acid phospholipid vesicles produce conformational changes on the antitumour protein $\beta$ -sarcin. <i>BBA - Proteins and Proteomics</i> , 1991, 1080, 51-58.	2.1	40

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91	Infrared Spectroscopy Study on the Conformational Changes Leading to Pore Formation of the Toxin Sticholysin II. <i>Biophysical Journal</i> , 2007, 93, 3191-3201.	0.2	39
92	Structure and Dynamics of the Membrane-Embedded Domain of LmrA Investigated by Coupling Polarized ATR-FTIR Spectroscopy and <sup>1</sup> H/ <sup>2</sup> H Exchange. <i>Biochemistry</i> , 2001, 40, 11876-11886.	1.2	38
93	Characterization of the Interactions between Fluoroquinolone Antibiotics and Lipids: a Multitechnique Approach. <i>Biophysical Journal</i> , 2008, 94, 3035-3046.	0.2	38
94	FTIR spectral signature of the effect of cardiotonic steroids with antitumoral properties on a prostate cancer cell line. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2010, 1802, 1087-1094.	1.8	38
95	Plasmonic Fiber Grating Biosensors Demodulated Through Spectral Envelopes Intersection. <i>Journal of Lightwave Technology</i> , 2021, 39, 7288-7295.	2.7	38
96	Role of the quinone structure in the mitochondrial damage induced by antitumor anthracyclines. <i>FEBS Letters</i> , 1983, 155, 267-272.	1.3	37
97	Interactions Involved in the Realignment of Membrane-associated Helices. <i>Journal of Biological Chemistry</i> , 2006, 281, 7708-7716.	1.6	37
98	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> , 2010, 49, 1577-1589.	1.2	36
99	FTIR Imaging of Protein Microarrays for High Throughput Secondary Structure Determination. <i>Analytical Chemistry</i> , 2021, 93, 3733-3741.	3.2	36
100	Infrared Spectroscopy of Membrane Lipids. , 2013, , 1074-1081.		36
101	Biochemical Interaction Analysis on ATR Devices: A Wet Chemistry Approach for Surface Functionalization. <i>Langmuir</i> , 2007, 23, 949-955.	1.6	35
102	Evaluation of protein secondary structure from FTIR spectra improved after partial deuteration. <i>European Biophysics Journal</i> , 2021, 50, 613-628.	1.2	35
103	Acido-basic properties of lipophilic substances: A surface potential approach. <i>Journal of Colloid and Interface Science</i> , 1983, 91, 546-551.	5.0	34
104	Membrane Molecule Reorientation in an Electric Field Recorded by Attenuated Total Reflection Fourier-Transform Infrared Spectroscopy. <i>Biophysical Journal</i> , 2001, 80, 324-330.	0.2	34
105	Orientation and mode of lipid-binding interaction of human apolipoprotein E C-terminal domain. <i>Biochemical Journal</i> , 2005, 387, 747-754.	1.7	34
106	Discrimination of breast cancer from benign tumours using Raman spectroscopy. <i>PLoS ONE</i> , 2019, 14, e0212376.	1.1	34
107	Spectroscopic investigation of structure in octarellin (a de novo protein designed to adopt the) Tj ETQq1 1 0.784314 rgBT /Overlock 10	1.0	33
108	Fourier Transform Infrared Spectroscopy Study of the Secondary Structure of the Reconstituted <i>Neurospora crassa</i> Plasma Membrane H <sup>+</sup> -ATPase and of Its Membrane-associated Proteolytic Peptides. <i>Journal of Biological Chemistry</i> , 1995, 270, 17685-17696.	1.6	33

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109	Second-generation octarellins: two new de novo ( $\hat{I}^2/\hat{I}^{\pm}$ ) <sub>8</sub> polypeptides designed for investigating the influence of $\hat{I}^2$ -residue packing on the $\hat{I}^{\pm}/\hat{I}^2$ -barrel structure stability. <i>Protein Engineering, Design and Selection</i> , 1995, 8, 249-259.	1.0	33
110	The infrared spectrum of human glioma cells is related to their in vitro and in vivo behavior. <i>Experimental Cell Research</i> , 2004, 297, 294-301.	1.2	33
111	Characteristics of Fibers Formed by Cytochrome c and Induced by Anionic Phospholipids. <i>Biochemistry</i> , 2006, 45, 13447-13453.	1.2	33
112	Infrared imaging of primary melanomas reveals hints of regional and distant metastases. <i>Analyst, The</i> , 2015, 140, 2144-2155.	1.7	33
113	Amino acid side chain contribution to protein FTIR spectra: impact on secondary structure evaluation. <i>European Biophysics Journal</i> , 2021, 50, 641-651.	1.2	33
114	The mode of insertion of the paramyxovirus F1 N-terminus into lipid matrix, an initial step in host cell/virus fusion. <i>Virus Genes</i> , 1988, 1, 325-32.	0.7	31
115	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> , 2003, 1614, 97-103.	1.4	30
116	Evidence of an Intramolecular Interaction between the Two Domains of the BlaR1 Penicillin Receptor during the Signal Transduction. <i>Journal of Biological Chemistry</i> , 2004, 279, 14264-14272.	1.6	30
117	Lipid phase separation mediates binding of porcine pancreatic phospholipase A2 to its substrate. <i>Biochemical and Biophysical Research Communications</i> , 1981, 101, 1410-1418.	1.0	29
118	Spectral and enzymatic properties of human recombinant myeloperoxidase: Comparison with the mature enzyme. <i>Archives of Biochemistry and Biophysics</i> , 1991, 291, 132-138.	1.4	29
119	Cell Discrimination by Attenuated Total Reflection- $\hat{I}^2$ Fourier Transform Infrared Spectroscopy: The Impact of Preprocessing of Spectra. <i>Applied Spectroscopy</i> , 2006, 60, 1022-1028.	1.2	29
120	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> , 2016, 1862, 202-212.	1.8	28
121	Multimodal plasmonic optical fiber grating aptasensor. <i>Optics Express</i> , 2020, 28, 7539.	1.7	28
122	Characterization of a potent human interleukin-11 agonist. <i>Biochemical Journal</i> , 2003, 375, 23-32.	1.7	27
123	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> , 2004, 279, 5528-5536.	1.6	27
124	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> , 2004, 382, 121-129.	1.7	27
125	In vivo and in vitro modifications of the mitochondrial membrane induced by 4' Epi-adriamycin. <i>Biochemical Pharmacology</i> , 1986, 35, 2923-2928.	2.0	26
126	Damages of the mitochondrial membrane in adriamycin treated mice. <i>Cancer Letters</i> , 1984, 25, 89-96.	3.2	25



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127	Monitoring of secondary and tertiary structure changes in the gastric H <sup>+</sup> /K <sup>+</sup> -ATPase by infrared spectroscopy. <i>FEBS Journal</i> , 2001, 268, 3644-3653.	0.2	25
128	Searching for a Better Match between Protein Secondary Structure Definitions and Protein FTIR Spectra. <i>Analytical Chemistry</i> , 2021, 93, 1561-1568.	3.2	25
129	The topology of the S protein in the yeast-derived hepatitis B surface antigen particles.. <i>Journal of Biological Chemistry</i> , 1994, 269, 25637-25645.	1.6	25
130	A semi-empirical conformational analysis of the interaction of n-alkanols with dipalmitoylphosphatidylcholine. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1985, 814, 227-236.	1.4	24
131	Density-based separation of liposomes by glycerol gradient centrifugation. <i>Analytical Biochemistry</i> , 1986, 159, 122-131.	1.1	24
132	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 <sup>+</sup> ,K <sup>+</sup> -ATPase-containing Gastric Tubulovesicle Membranes. <i>Biophysical Journal</i> , 2004, 87, 1307-1315.	0.2	24
133	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> , 2006, 23, 363-374.	2.0	24
134	Cholesterol modulates the exposure and orientation of pulmonary surfactant protein SP-C in model surfactant membranes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2009, 1788, 1907-1915.	1.4	24
135	Ouabain-induced modifications of prostate cancer cell lipidome investigated with mass spectrometry and FTIR spectroscopy. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2011, 1808, 597-605.	1.4	24
136	Intertwined metal homeostasis, oxidative and biotic stress responses in the Arabidopsis <i>frd3</i> mutant. <i>Plant Journal</i> , 2020, 102, 34-52.	2.8	24
137	Transmembrane Helix Stability: The Effect of Helix-Helix Interactions Studied by Fourier Transform Infrared Spectroscopy. <i>Biophysical Journal</i> , 1998, 74, 988-994.	0.2	23
138	Organization and Dynamics of Fas Transmembrane Domain in Raft Membranes and Modulation by Ceramide. <i>Biophysical Journal</i> , 2011, 101, 1632-1641.	0.2	23
139	Infrared imaging in histopathology: Is a unified approach possible?. <i>Biomedical Spectroscopy and Imaging</i> , 2017, 5, 325-346.	1.2	23
140	Evaluation of the anesthetic-lipid association constant. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1982, 685, 169-176.	1.4	22
141	Discrimination between healthy and tumor tissues on formalin-fixed paraffin-embedded breast cancer samples using IR imaging. <i>Spectroscopy</i> , 2010, 24, 67-72.	0.8	22
142	Deciphering the biochemical similarities and differences among mouse embryonic stem cells, somatic and cancer cells using ATR-FTIR spectroscopy. <i>Analyst, The</i> , 2018, 143, 1624-1634.	1.7	22
143	Filipin Orientation Revealed by Linear Dichroism. Implication for a Model of Action. <i>Journal of the American Chemical Society</i> , 2004, 126, 5396-5402.	6.6	21
144	Effects of the confluence rate on the FTIR spectrum of PC-3 prostate cancer cells in culture. <i>Analyst, The</i> , 2010, 135, 3048.	1.7	21

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