

Martin Hof

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8562175/publications.pdf>

Version: 2024-02-01

242
papers

7,525
citations

57752

44
h-index

82542

72
g-index

251
all docs

251
docs citations

251
times ranked

8445
citing authors

#	ARTICLE	IF	CITATIONS
1	Lipid Diffusion in Giant Unilamellar Vesicles Is More than 2 Times Faster than in Supported Phospholipid Bilayers under Identical Conditions. <i>Langmuir</i> , 2006, 22, 9096-9099.	3.5	237
2	How To Determine Diffusion Coefficients in Planar Phospholipid Systems by Confocal Fluorescence Correlation Spectroscopy. <i>Langmuir</i> , 2003, 19, 4120-4126.	3.5	217
3	Lipid diffusion in planar membranes investigated by fluorescence correlation spectroscopy. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2010, 1798, 1377-1391.	2.6	217
4	The complex nature of calcium cation interactions with phospholipid bilayers. <i>Scientific Reports</i> , 2016, 6, 38035.	3.3	208
5	Arginine-rich cell-penetrating peptides induce membrane multilamellarity and subsequently enter via formation of a fusion pore. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 11923-11928.	7.1	168
6	Fluorescence Lifetime Correlation Spectroscopy. <i>Journal of Fluorescence</i> , 2006, 17, 43-48.	2.5	157
7	Molecular rheometry: direct determination of viscosity in Lo and Ld lipid phases via fluorescence lifetime imaging. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 14986.	2.8	152
8	Membrane Lipid Nanodomains. <i>Chemical Reviews</i> , 2018, 118, 11259-11297.	47.7	152
9	Effects of Alkali Cations and Halide Anions on the DOPC Lipid Membrane. <i>Journal of Physical Chemistry A</i> , 2009, 113, 7235-7243.	2.5	144
10	Headgroup Hydration and Mobility of DOTAP/DOPC Bilayers: A Fluorescence Solvent Relaxation Study. <i>Langmuir</i> , 2006, 22, 8741-8749.	3.5	125
11	Dual epitope recognition by the VASP EVH1 domain modulates polyproline ligand specificity and binding affinity. <i>EMBO Journal</i> , 2000, 19, 4903-4914.	7.8	120
12	Laurdan and Di-4-ANEPPDHQ probe different properties of the membrane. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 134004.	2.8	119
13	Probing Diffusion Laws within Cellular Membranes by Z-Scan Fluorescence Correlation Spectroscopy. <i>Biophysical Journal</i> , 2006, 91, L23-L25.	0.5	114
14	On What Time Scale Does Solvent Relaxation in Phospholipid Bilayers Happen?. <i>Langmuir</i> , 2002, 18, 571-574.	3.5	111
15	Oxidation Changes Physical Properties of Phospholipid Bilayers: Fluorescence Spectroscopy and Molecular Simulations. <i>Langmuir</i> , 2010, 26, 6140-6144.	3.5	108
16	Biophysics of lipid bilayers containing oxidatively modified phospholipids: Insights from fluorescence and EPR experiments and from MD simulations. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2012, 1818, 2388-2402.	2.6	108
17	Solvent Relaxation in Phospholipid Bilayers: Principles and Recent Applications. <i>Journal of Fluorescence</i> , 2005, 15, 883-894.	2.5	104
18	A Rotational BODIPY Nucleotide: An Environment-Sensitive Fluorescence Lifetime Probe for DNA Interactions and Applications in Live-Cell Microscopy. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 174-178.	13.8	103

#	ARTICLE	IF	CITATIONS
19	Structure, dynamics, and hydration of POPC/POPS bilayers suspended in NaCl, KCl, and CsCl solutions. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2012, 1818, 609-616.	2.6	98
20	Mechanism of Interaction of Monovalent Ions with Phosphatidylcholine Lipid Membranes. <i>Journal of Physical Chemistry B</i> , 2010, 114, 9504-9509.	2.6	89
21	The differential interaction of snRNPs with pre-mRNA reveals splicing kinetics in living cells. <i>Journal of Cell Biology</i> , 2010, 191, 75-86.	5.2	87
22	Oxidized Phosphatidylcholines Facilitate Phospholipid Flip-Flop in Liposomes. <i>Biophysical Journal</i> , 2011, 101, 1376-1384.	0.5	87
23	GM ₁ Ganglioside Inhibits β -Amyloid Oligomerization Induced by Sphingomyelin. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 9411-9415.	13.8	86
24	Surface-Dependent Transitions during Self-Assembly of Phospholipid Membranes on Mica, Silica, and Glass. <i>Langmuir</i> , 2004, 20, 10129-10137.	3.5	75
25	Lipid hydration and mobility: An interplay between fluorescence solvent relaxation experiments and molecular dynamics simulations. <i>Biochimie</i> , 2012, 94, 26-32.	2.6	75
26	Binding and relaxation behaviour of prodan and patman in phospholipid vesicles: a fluorescence and 1H NMR study. <i>Biophysical Chemistry</i> , 1996, 61, 151-160.	2.8	71
27	Time-Resolved Fluorescence in Lipid Bilayers: Selected Applications and Advantages over Steady State. <i>Biophysical Journal</i> , 2014, 107, 2751-2760.	0.5	69
28	Fluorescence Lifetime Correlation Spectroscopy Combined with Lifetime Tuning: A New Perspectives in Supported Phospholipid Bilayer Research. <i>Langmuir</i> , 2006, 22, 9580-9585.	3.5	67
29	Light Emission Performance of Silicon Nanocrystals Deduced from Single Quantum Dot Spectroscopy. <i>Advanced Functional Materials</i> , 2008, 18, 2666-2672.	14.9	64
30	Key steps in unconventional secretion of fibroblast growth factor 2 reconstituted with purified components. <i>ELife</i> , 2017, 6, .	6.0	63
31	Photofunctional Polyurethane Nanofabrics Doped by Zinc Tetraphenylporphyrin and Zinc Phthalocyanine Photosensitizers. <i>Journal of Fluorescence</i> , 2009, 19, 705-713.	2.5	62
32	Fluorescence Lifetime Correlation Spectroscopy (FLCS): Concepts, Applications and Outlook. <i>International Journal of Molecular Sciences</i> , 2012, 13, 12890-12910.	4.1	61
33	Influence of the curvature on the water structure in the headgroup region of phospholipid bilayer studied by the solvent relaxation technique. <i>Chemistry and Physics of Lipids</i> , 2005, 135, 213-221.	3.2	58
34	Cholesterol under oxidative stress – How lipid membranes sense oxidation as cholesterol is being replaced by oxysterols. <i>Free Radical Biology and Medicine</i> , 2015, 84, 30-41.	2.9	57
35	Relaxation Dynamics of <i>Pseudomonas aeruginosa</i> Re ^I (CO) ₃ (\pm -diimine)(HisX) ⁺ (X = 83, 107, 109, 124, 126)Cu ^{II} . 13.7 Azurins. <i>Journal of the American Chemical Society</i> , 2009, 131, 11788-11800.	13.7	55
36	Dynamics and Size of Cross-Linking-Induced Lipid Nanodomains in Model Membranes. <i>Biophysical Journal</i> , 2012, 102, 2104-2113.	0.5	55

#	ARTICLE	IF	CITATIONS
37	Solvatochromic fluorene-linked nucleoside and DNA as color-changing fluorescent probes for sensing interactions. <i>Chemical Science</i> , 2016, 7, 5775-5785.	7.4	55
38	Fluorescence of nitrobenzoxadiazole (NBD)-labeled lipids in model membranes is connected not to lipid mobility but to probe location. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 7042-7054.	2.8	55
39	Recent Developments in Fluorescence Correlation Spectroscopy for Diffusion Measurements in Planar Lipid Membranes. <i>International Journal of Molecular Sciences</i> , 2010, 11, 427-457.	4.1	53
40	Dynamics and hydration explain failed functional transformation in dehalogenase design. <i>Nature Chemical Biology</i> , 2014, 10, 428-430.	8.0	52
41	On multivalent receptor activity of GM1 in cholesterol containing membranes. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2015, 1853, 850-857.	4.1	51
42	The C-terminal domain of Brd2 is important for chromatin interaction and regulation of transcription and alternative splicing. <i>Molecular Biology of the Cell</i> , 2013, 24, 3557-3568.	2.1	48
43	Solvent Relaxation Study of pH-Dependent Hydration of Poly(oxyethylene) Shells in Polystyrene-block-poly(2-vinylpyridine)-block-poly(oxyethylene) Micelles in Aqueous Solutions. <i>Journal of Physical Chemistry A</i> , 2005, 109, 10803-10812.	2.5	45
44	Interaction of Fluorescently Substituted Metallacarboranes with Cyclodextrins and Phospholipid Bilayers: Fluorescence and Light Scattering Study. <i>Langmuir</i> , 2010, 26, 6268-6275.	3.5	45
45	Experimental determination and computational interpretation of biophysical properties of lipid bilayers enriched by cholesteryl hemisuccinate. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2015, 1848, 422-432.	2.6	45
46	Microscopic Origin of the Fast Blue-Green Luminescence of Chemically Synthesized Non-Oxidized Silicon Quantum Dots. <i>Small</i> , 2012, 8, 3185-3191.	10.0	44
47	Two cations, two mechanisms: interactions of sodium and calcium with zwitterionic lipid membranes. <i>Chemical Communications</i> , 2017, 53, 5380-5383.	4.1	44
48	Absorption and Fluorescence of PRODAN in Phospholipid Bilayers: A Combined Quantum Mechanics and Classical Molecular Dynamics Study. <i>Journal of Physical Chemistry A</i> , 2011, 115, 11428-11437.	2.5	43
49	Nanosecond Time-Dependent Stokes Shift at the Tunnel Mouth of Haloalkane Dehalogenases. <i>Journal of the American Chemical Society</i> , 2009, 131, 494-501.	13.7	42
50	Spectral analysis of doxorubicin accumulation and the indirect quantification of its DNA intercalation. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2010, 76, 514-524.	4.3	42
51	Numerical studies of the membrane fluorescent dyes dynamics in ground and excited states. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2010, 1798, 1724-1734.	2.6	42
52	Impact of GM1 on Membrane-Mediated Aggregation/Oligomerization of β^2 -Amyloid: Unifying View. <i>Biophysical Journal</i> , 2017, 113, 1194-1199.	0.5	40
53	Remote Actuation of Apoptosis in Liver Cancer Cells via Magneto-Mechanical Modulation of Iron Oxide Nanoparticles. <i>Cancers</i> , 2019, 11, 1873.	3.7	40
54	Effect of heavy water on phospholipid membranes: experimental confirmation of molecular dynamics simulations. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 14516.	2.8	39

#	ARTICLE	IF	CITATIONS
55	Effect of helical kink in antimicrobial peptides on membrane pore formation. <i>ELife</i> , 2020, 9, .	6.0	39
56	Title is missing!. <i>Journal of Fluorescence</i> , 1998, 8, 389-393.	2.5	38
57	Nanoparticle core stability and surface functionalization drive the mTOR signaling pathway in hepatocellular cell lines. <i>Scientific Reports</i> , 2017, 7, 16049.	3.3	38
58	Time Resolved Fluorescence in Doped Aerogels and Organosilicate Glasses. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , 1989, 93, 1377-1381.	0.9	37
59	Surface Sticking and Lateral Diffusion of Lipids in Supported Bilayers. <i>Langmuir</i> , 2006, 22, 9339-9344.	3.5	37
60	An Amphiphilic Hemicyanine Dye Employed as a Sensitive Probe of Water in Reverse AOT Micelles. <i>Langmuir</i> , 1997, 13, 2181-2183.	3.5	36
61	Solvent relaxation behaviour of n-anthroyloxy fatty acids in PC-vesicles and paraffin oil: a time-resolved emission spectra study. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1997, 1323, 195-207.	2.6	36
62	Bilayer localization of membrane-active peptides studied in biomimetic vesicles by visible and fluorescence spectroscopies. <i>FEBS Journal</i> , 2003, 270, 4478-4487.	0.2	36
63	Hybrid Block Copolymer Micelles with Partly Hydrophobically Modified Polyelectrolyte Shells in Polar and Aqueous Media: A Experimental Study Using Fluorescence Correlation Spectroscopy, Time-Resolved Fluorescence, Light Scattering, and Atomic Force Microscopy. <i>Journal of Physical Chemistry B</i> , 2003, 107, 8232-8240.	2.6	36
64	TCSPC upgrade of a confocal FCS microscope. <i>Review of Scientific Instruments</i> , 2005, 76, 033106.	1.3	36
65	Fluorescence Study of the Solvation of Fluorescent Probes Prodan and Laurdan in Poly(μ -caprolactone)- <i>block</i> -poly(ethylene oxide) Vesicles in Aqueous Solutions with Tetrahydrofuran. <i>Langmuir</i> , 2008, 24, 288-295.	3.5	36
66	Pairing of cholesterol with oxidized phospholipid species in lipid bilayers. <i>Soft Matter</i> , 2014, 10, 639-647.	2.7	35
67	Confined Diffusion in Ordered Nanoporous Alumina Membranes. <i>Small</i> , 2007, 3, 380-385.	10.0	34
68	Aggregation of Oligoarginines at Phospholipid Membranes: Molecular Dynamics Simulations, Time-Dependent Fluorescence Shift, and Biomimetic Colorimetric Assays. <i>Journal of Physical Chemistry B</i> , 2013, 117, 11530-11540.	2.6	34
69	Lipid Driven Nanodomains in Giant Lipid Vesicles are Fluid and Disordered. <i>Scientific Reports</i> , 2017, 7, 5460.	3.3	34
70	The application of fluorescence correlation spectroscopy in detecting DNA condensation. <i>Biophysical Chemistry</i> , 2002, 95, 135-144.	2.8	33
71	Expansion of Access Tunnels and Active Site Cavities Influence Activity of Haloalkane Dehalogenases in Organic Cosolvents. <i>ChemBioChem</i> , 2013, 14, 890-897.	2.6	33
72	Interleaflet Coupling of Lipid Nanodomains – Insights From in vitro Systems. <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 284.	3.7	33

#	ARTICLE	IF	CITATIONS
73	Binding of prothrombin and its fragment 1 to phospholipid membranes studied by the solvent relaxation technique. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1998, 1414, 155-164.	2.6	32
74	ABA-C15: A New Dye for Probing Solvent Relaxation in Phospholipid Bilayers. <i>Langmuir</i> , 2002, 18, 9276-9282.	3.5	32
75	Fluorescence Correlation Spectroscopy Using Octadecylrhodamine B as a Specific Micelle-Binding Fluorescent Tag; Light Scattering and Tapping Mode Atomic Force Microscopy Studies of Amphiphilic Water-Soluble Block Copolymer Micelles. <i>Langmuir</i> , 2003, 19, 4111-4119.	3.5	32
76	Time-Dependent Stokes Shifts of Fluorescent Dyes in the Hydrophobic Backbone Region of a Phospholipid Bilayer: Combination of Fluorescence Spectroscopy and Ab Initio Calculations. <i>Journal of Physical Chemistry B</i> , 2007, 111, 5869-5877.	2.6	32
77	Solvation-Driven Excited-State Dynamics of [Re(4-Et-Pyridine)(CO) ₃ (2,2'-bipyridine)] ⁺ in Imidazolium Ionic Liquids. A Time-Resolved Infrared and Phosphorescence Study. <i>Journal of Physical Chemistry A</i> , 2008, 112, 3506-3514.	2.5	31
78	Limitations of Electronic Energy Transfer in the Determination of Lipid Nanodomain Sizes. <i>Biophysical Journal</i> , 2011, 101, L60-L62.	0.5	31
79	Behavior of 4-Hydroxynonenal in Phospholipid Membranes. <i>Journal of Physical Chemistry B</i> , 2012, 116, 6411-6415.	2.6	31
80	Light Scattering, Atomic Force Microscopy and Fluorescence Correlation Spectroscopy Studies of Polystyrene-block-poly(2-vinylpyridine)-block-poly(ethylene oxide) Micelles. <i>Collection of Czechoslovak Chemical Communications</i> , 2003, 68, 2120-2138.	1.0	30
81	Singlet Oxygen Imaging in Polymeric Nanofibers by Delayed Fluorescence. <i>Journal of Physical Chemistry B</i> , 2010, 114, 15773-15779.	2.6	30
82	Accurate Determination of the Orientational Distribution of a Fluorescent Molecule in a Phospholipid Membrane. <i>Journal of Physical Chemistry B</i> , 2014, 118, 855-863.	2.6	30
83	Equilibrium Dynamics of Spermine-Induced Plasmid DNA Condensation Revealed by Fluorescence Lifetime Correlation Spectroscopy. <i>Biophysical Journal</i> , 2008, 94, L17-L19.	0.5	29
84	A comprehensive study in triblock copolymer membrane interaction. <i>Journal of Controlled Release</i> , 2011, 151, 57-64.	9.9	29
85	FLIM studies of 22- and 25-NBD-cholesterol in living HEK293 cells: Plasma membrane change induced by cholesterol depletion. <i>Chemistry and Physics of Lipids</i> , 2013, 167-168, 62-69.	3.2	28
86	Interactions of beta-blockers with model lipid membranes: Molecular view of the interaction of acebutolol, oxprenolol, and propranolol with phosphatidylcholine vesicles by time-dependent fluorescence shift and molecular dynamics simulations. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2014, 87, 559-569.	4.3	28
87	Highly synergistic antimicrobial activity of magainin 2 and PGLa peptides is rooted in the formation of supramolecular complexes with lipids. <i>Scientific Reports</i> , 2020, 10, 11652.	3.3	28
88	Increased Binding of Calcium Ions at Positively Curved Phospholipid Membranes. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 518-523.	4.6	27
89	Propidium Iodide and PicoGreen as Dyes for the DNA Fluorescence Correlation Spectroscopy Measurements. <i>Journal of Fluorescence</i> , 2005, 15, 179-183.	2.5	26
90	Impact of oxidized phospholipids on the structural and dynamic organization of phospholipid membranes: a combined DSC and solid state NMR study. <i>Faraday Discussions</i> , 2013, 161, 499-513.	3.2	26

#	ARTICLE	IF	CITATIONS
91	Structural Studies of Thin AOT Films by Using the Polarity Fluorescent Probe Coumarin-153. <i>Langmuir</i> , 1997, 13, 290-294.	3.5	25
92	Lipopolyamine-Mediated Single Nanoparticle Formation of Calf Thymus DNA Analyzed by Fluorescence Correlation Spectroscopy. <i>Pharmaceutical Research</i> , 2006, 23, 1564-1573.	3.5	25
93	In vivo detection of RNA-binding protein interactions with cognate RNA sequences by fluorescence resonance energy transfer. <i>Rna</i> , 2009, 15, 2063-2071.	3.5	25
94	Site-Specific Analysis of Protein Hydration Based on Unnatural Amino Acid Fluorescence. <i>Journal of the American Chemical Society</i> , 2015, 137, 4988-4992.	13.7	25
95	Molecular Gating of an Engineered Enzyme Captured in Real Time. <i>Journal of the American Chemical Society</i> , 2018, 140, 17999-18008.	13.7	25
96	Controlled Peptide-Mediated Vesicle Fusion Assessed by Simultaneous Dual-Colour Time-Lapsed Fluorescence Microscopy. <i>Scientific Reports</i> , 2020, 10, 3087.	3.3	25
97	Influence of vesicle curvature on fluorescence relaxation kinetics of fluorophores. <i>Biophysical Chemistry</i> , 1994, 52, 165-172.	2.8	24
98	Muscovite (Mica) Allows the Characterisation of Supported Bilayers by Ellipsometry and Confocal Fluorescence Correlation Spectroscopy. <i>Biological Chemistry</i> , 2002, 383, 337-41.	2.5	24
99	Peripheral and Integral Membrane Binding of Peptides Characterized by Time-Dependent Fluorescence Shifts: Focus on Antimicrobial Peptide LAH ₄ . <i>Langmuir</i> , 2014, 30, 6171-6179.	3.5	24
100	Fluorescence Quenching of (Dimethylamino)naphthalene Dyes Badan and Prodan by Tryptophan in Cytochromes P450 and Micelles. <i>Journal of Physical Chemistry B</i> , 2014, 118, 10085-10091.	2.6	24
101	Bobbing of Oxysterols: Molecular Mechanism for Translocation of Tail-Oxidized Sterols through Biological Membranes. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 1118-1123.	4.6	24
102	Thiophene-linked tetramethylbodipy-labeled nucleotide for viscosity-sensitive oligonucleotide probes of hybridization and protein-DNA interactions. <i>Organic and Biomolecular Chemistry</i> , 2020, 18, 912-919.	2.8	24
103	Tail-Oxidized Cholesterol Enhances Membrane Permeability for Small Solutes. <i>Langmuir</i> , 2020, 36, 10438-10447.	3.5	24
104	Combination of ellipsometry, laser scanning microscopy and Z-scan fluorescence correlation spectroscopy elucidating interaction of cryptdin ₄ with supported phospholipid bilayers. <i>Journal of Peptide Science</i> , 2008, 14, 503-509.	1.4	23
105	Photoactive oriented films of layered double hydroxides. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 4429.	2.8	23
106	Fluorescence Lifetime Correlation Spectroscopy Reveals Compaction Mechanism of 10 and 49 kbp DNA and Differences between Polycation and Cationic Surfactant. <i>Journal of Physical Chemistry B</i> , 2008, 112, 16823-16829.	2.6	23
107	Fluorescence spectral correlation spectroscopy (FSCS) for probes with highly overlapping emission spectra. <i>Optics Express</i> , 2014, 22, 2973.	3.4	22
108	The localization of the local anesthetic tetracaine in phospholipid vesicles: A fluorescence quenching and resonance energy transfer study. <i>Chemistry and Physics of Lipids</i> , 1997, 90, 11-23.	3.2	21

#	ARTICLE	IF	CITATIONS
109	Simultaneous Characterization of Lateral Lipid and Prothrombin Diffusion Coefficients by Z-Scan Fluorescence Correlation Spectroscopy. <i>Biophysical Journal</i> , 2009, 97, L1-L3.	0.5	21
110	Molecular interpretation of fluorescence solvent relaxation of Patman and 2H NMR experiments in phosphatidylcholine bilayers. <i>Chemistry and Physics of Lipids</i> , 2007, 147, 69-77.	3.2	20
111	Fluorescence spectroscopy studies of HEK293 cells expressing DOR-Gi1± fusion protein; the effect of cholesterol depletion. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2011, 1808, 2819-2829.	2.6	20
112	New gluconamide-type cationic surfactants: Interactions with DNA and lipid membranes. <i>Biophysical Chemistry</i> , 2013, 180-181, 44-54.	2.8	20
113	Experimental Evidence of the Existence of Interleaflet Coupled Nanodomains: An MC-FRET Study. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 2024-2030.	4.6	20
114	Protein Corona Inhibits Endosomal Escape of Functionalized DNA Nanostructures in Living Cells. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 46375-46390.	8.0	20
115	The Effect of Spermine on Plasmid Condensation and Dye Release Observed by Fluorescence Correlation Spectroscopy. <i>Biological Chemistry</i> , 2002, 383, 331-5.	2.5	19
116	Di- and tri-oxalkyl derivatives of a boron dipyrromethene (BODIPY) rotor dye in lipid bilayers. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 10688-10697.	2.8	19
117	Fluorescence correlation spectroscopy diffusion laws in the presence of moving nanodomains. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 114002.	2.8	19
118	Apoptotic Bax at Oxidatively Stressed Mitochondrial Membranes: Lipid Dynamics and Permeabilization. <i>Biophysical Journal</i> , 2017, 112, 2147-2158.	0.5	19
119	Biomembrane Permeabilization: Statistics of Individual Leakage Events Harmonize the Interpretation of Vesicle Leakage. <i>ACS Nano</i> , 2018, 12, 813-819.	14.6	19
120	The effect of detergents on trimeric G-protein activity in isolated plasma membranes from rat brain cortex: Correlation with studies of DPH and Laurdan fluorescence. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2009, 1788, 324-332.	2.6	18
121	Lipopolythiourea/DNA interaction: A biophysical study. <i>Biophysical Chemistry</i> , 2010, 148, 68-73.	2.8	18
122	Real-time monitoring of melittin-induced pore and tubule formation from supported lipid bilayers and its physiological relevance. <i>Chemistry and Physics of Lipids</i> , 2010, 163, 200-206.	3.2	17
123	Raster image correlation spectroscopy as a novel tool to study interactions of macromolecules with nanofiber scaffolds. <i>Acta Biomaterialia</i> , 2011, 7, 4195-4203.	8.3	17
124	Interactions of monovalent salts with cationic lipid bilayers. <i>Faraday Discussions</i> , 2013, 160, 341-358.	3.2	17
125	Comprehensive portrait of cholesterol containing oxidized membrane. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2014, 1838, 1769-1776.	2.6	17
126	Time-resolved fluorescence study of a calcium-induced conformational change in prothrombin fragment 1. , 1996, 24, 485-494.		16

#	ARTICLE	IF	CITATIONS
127	Porphyrin/calixarene self-assemblies in aqueous solution. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2008, 198, 18-25.	3.9	16
128	Förster Resonance Energy Transfer (FRET) between Heterogeneously Distributed Probes: Application to Lipid Nanodomains and Pores. <i>International Journal of Molecular Sciences</i> , 2012, 13, 16141-16156.	4.1	16
129	Cytotoxic Lipopeptide Muscotoxin A, Isolated from Soil Cyanobacterium <i>Desmonostoc muscorum</i> , Permeabilizes Phospholipid Membranes by Reducing Their Fluidity. <i>Chemical Research in Toxicology</i> , 2015, 28, 216-224.	3.3	16
130	TRH-receptor mobility and function in intact and cholesterol-depleted plasma membrane of HEK293 cells stably expressing TRH-R-eGFP. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2015, 1848, 781-796.	2.6	16
131	Orientation of nitro-group governs the fluorescence lifetime of nitrobenzoxadiazole (NBD)-labeled lipids in lipid bilayers. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 1682-1688.	2.8	16
132	Dynamic saturation optical microscopy: employing dark-state formation kinetics for resolution enhancement. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 12457.	2.8	15
133	Statistical filtering in fluorescence microscopy and fluorescence correlation spectroscopy. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 4797-4813.	3.7	15
134	Dipolar Relaxation Dynamics at the Active Site of an ATPase Regulated by Membrane Lateral Pressure. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 1269-1272.	13.8	15
135	Coumarin 6, Hypericin, Resorufins, and Flavins: Suitable Chromophores for Fluorescence Correlation Spectroscopy of Biological Molecules. <i>Collection of Czechoslovak Chemical Communications</i> , 2001, 66, 855-869.	1.0	14
136	Probing Ethanol-Induced Phospholipid Phase Transitions by the Polarity Sensitive Fluorescence Probes Prodan and Patman. <i>Zeitschrift Fur Physikalische Chemie</i> , 2002, 216, .	2.8	14
137	Diffusion of sphingomyelin and myelin oligodendrocyte glycoprotein in the membrane of OLN-93 oligodendroglial cells studied by fluorescence correlation spectroscopy. <i>Comptes Rendus - Biologies</i> , 2005, 328, 1057-1064.	0.2	14
138	The use of solvent relaxation technique to investigate headgroup hydration and protein binding of simple and mixed phosphatidylcholine/surfactant bilayer membranes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2007, 1768, 1050-1058.	2.6	14
139	Are Time-Dependent Fluorescence Shifts at the Tunnel Mouth of Haloalkane Dehalogenase Enzymes Dependent on the Choice of the Chromophore?. <i>Journal of Physical Chemistry B</i> , 2013, 117, 7898-7906.	2.6	14
140	New cytotoxic butyltin complexes with 2-sulfobenzoic acid: Molecular interaction with lipid bilayers and DNA as well as in vitro anticancer activity. <i>Chemico-Biological Interactions</i> , 2016, 243, 107-118.	4.0	14
141	The oxidized phospholipid PazePC promotes permeabilization of mitochondrial membranes by Bax. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2016, 1858, 1288-1297.	2.6	14
142	Distinct roles of SNARE-mimicking lipopeptides during initial steps of membrane fusion. <i>Nanoscale</i> , 2018, 10, 19064-19073.	5.6	14
143	Roughness of Transmembrane Helices Reduces Lipid Membrane Dynamics. <i>IScience</i> , 2018, 10, 87-97.	4.1	14
144	Concurrent Compression of Phospholipid Membranes by Calcium and Cholesterol. <i>Langmuir</i> , 2019, 35, 11358-11368.	3.5	14

#	ARTICLE	IF	CITATIONS
145	Picosecond Tryptophan Fluorescence of Human Blood Serum Orosomuroid. Collection of Czechoslovak Chemical Communications, 1996, 61, 808-818.	1.0	14
146	Title is missing!. Journal of Fluorescence, 2001, 11, 227-236.	2.5	13
147	Fluorescence Quenching in Oligonucleotides Containing 7-Substituted 7-Deazaguanine Bases Prepared by the Nicking Enzyme Amplification Reaction. Bioconjugate Chemistry, 2015, 26, 361-366.	3.6	13
148	The Impact of O-Glycosylation on Cyanidin Interaction with POPC Membranes: Structure-Activity Relationship. Molecules, 2018, 23, 2771.	3.8	13
149	Monitoring of nucleophosmin oligomerization in live cells. Methods and Applications in Fluorescence, 2018, 6, 035016.	2.3	13
150	Title is missing!. Journal of Fluorescence, 2000, 10, 383-392.	2.5	12
151	Fluorescence Lifetime Tuning—A Novel Approach to Study Flip-Flop Kinetics in Supported Phospholipid Bilayers. Journal of Fluorescence, 2010, 20, 563-569.	2.5	12
152	Distribution of BODIPY-labelled phosphatidylethanolamines in lipid bilayers exhibiting different curvatures. Physical Chemistry Chemical Physics, 2011, 13, 11694.	2.8	12
153	Atrazine-Based Self-Assembled Monolayers and Their Interaction with Anti-Atrazine Antibody: Building of an Immunosensor. Langmuir, 2013, 29, 16084-16092.	3.5	12
154	High- and low-affinity sites for sodium in $\hat{\Gamma}$ -OR-Gi1 $\hat{\Gamma}$ ± (Cys351-Ile351) fusion protein stably expressed in HEK293 cells; functional significance and correlation with biophysical state of plasma membrane. Naunyn-Schmiedeberg's Archives of Pharmacology, 2014, 387, 487-502.	3.0	12
155	Determination of Dynamics of Plant Plasma Membrane Proteins with Fluorescence Recovery and Raster Image Correlation Spectroscopy. Microscopy and Microanalysis, 2016, 22, 290-299.	0.4	12
156	Superradiant Emission from Coherent Excitons in van Der Waals Heterostructures. Advanced Functional Materials, 2021, 31, 2102196.	14.9	12
157	Z-Scan Fluorescence Correlation Spectroscopy as a Tool for Diffusion Measurements in Planar Lipid Membranes. Methods in Molecular Biology, 2014, 1076, 617-634.	0.9	12
158	Fluorescence correlation spectroscopy (FCS) as a tool to study DNA condensation with hexadecyltrimethylammonium bromide (HTAB). Cellular and Molecular Biology Letters, 2002, 7, 203-11.	7.0	12
159	Associating oligonucleotides with positively charged liposomes. Cellular and Molecular Biology Letters, 2003, 8, 77-84.	7.0	12
160	Anisotropy and lifetime profiles for n-anthroyloxy fatty acids: a fluorescence method for the detection of bilayer interdigitation. Chemistry and Physics of Lipids, 1997, 86, 51-64.	3.2	11
161	On Mechanism of Intermediate-Sized Circular DNA Compaction Mediated by Spermine: Contribution of Fluorescence Lifetime Correlation Spectroscopy. Journal of Fluorescence, 2008, 18, 679-684.	2.5	11
162	Antitumor and antioxidant activities of purple potato ethanolic extract and its interaction with liposomes, albumin and plasmid DNA. Food and Function, 2021, 12, 1271-1290.	4.6	11

#	ARTICLE	IF	CITATIONS
163	What Does Time-Dependent Fluorescence Shift (TDFS) in Biomembranes (and Proteins) Report on?. <i>Frontiers in Chemistry</i> , 2021, 9, 738350.	3.6	11
164	Solvent relaxation in phospholipid bilayers: physical understanding and biophysical applications. <i>Cellular and Molecular Biology Letters</i> , 2002, 7, 259-61.	7.0	11
165	Picosecond tryptophan fluorescence of membrane-bound prothrombin fragment 1. <i>BBA - Proteins and Proteomics</i> , 1998, 1388, 143-153.	2.1	10
166	A comparative study on ganglioside micelles using electronic energy transfer, fluorescence correlation spectroscopy and light scattering techniques. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 4335.	2.8	10
167	Interaction of procyanidin B 3 with membrane lipids – Fluorescence, DSC and FTIR studies. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2017, 1859, 1362-1371.	2.6	10
168	Interaction of Newly Platinum(II) with Tris(2-carboxyethyl)phosphine Complex with DNA and Model Lipid Membrane. <i>Journal of Membrane Biology</i> , 2017, 250, 461-470.	2.1	10
169	Mass Spectrometric Characterization of Oligomers in <i>Pseudomonas aeruginosa</i> Azurin Solutions. <i>Journal of Physical Chemistry B</i> , 2011, 115, 4790-4800.	2.6	9
170	Membrane activity of the pentaene macrolide didehydroroflomycoin in model lipid bilayers. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2015, 1848, 444-452.	2.6	9
171	Comprehensive description of blinking-dynamics regimes in single direct-band-gap silicon nanocrystals. <i>Physical Review B</i> , 2016, 93, .	3.2	9
172	DNA-Spermine and DNA-Lipid Aggregate Formation Visualized by Fluorescence Correlation Spectroscopy. <i>Chemotherapy</i> , 2006, 52, 196-199.	1.6	8
173	Properties of Mixed Cationic Membranes studied by Fluorescence Solvent Relaxation. <i>Journal of Fluorescence</i> , 2008, 18, 925-928.	2.5	8
174	Self-Assemblies of Cationic Porphyrins with Functionalized Water-Soluble Single-Walled Carbon Nanotubes. <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 5795-5802.	0.9	8
175	Fluorescence Spectroscopy as a Tool for Investigating the Self-Organized Polyelectrolyte Systems. <i>Advances in Polymer Science</i> , 2010, , 187-249.	0.8	8
176	Protonation of Lipids Impacts the Supramolecular and Biological Properties of Their Self-Assembly. <i>Langmuir</i> , 2011, 27, 12336-12345.	3.5	8
177	The alteration of lipid bilayer dynamics by phloretin and 6-ketocholestanol. <i>Chemistry and Physics of Lipids</i> , 2014, 178, 38-44.	3.2	8
178	Hidden complexity in membrane permeabilization behavior of antimicrobial polycations. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 1475-1488.	2.8	8
179	The impact of the glycan headgroup on the nanoscopic segregation of gangliosides. <i>Biophysical Journal</i> , 2021, 120, 5530-5543.	0.5	8
180	Laurdan in live cell imaging: Effect of acquisition settings, cell culture conditions and data analysis on generalized polarization measurements. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2022, 228, 112404.	3.8	8

#	ARTICLE	IF	CITATIONS
181	The fast polarization modulation based dual-focus fluorescence correlation spectroscopy. <i>Optics Express</i> , 2014, 22, 885.	3.4	7
182	Role of protein kinase C \hat{r} in apoptotic signaling of oxidized phospholipids in RAW 264.7 macrophages. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2016, 1861, 320-330.	2.4	7
183	Functional Assay to Correlate Protein Oligomerization States with Membrane Pore Formation. <i>Analytical Chemistry</i> , 2020, 92, 14861-14866.	6.5	7
184	Influence of lipid composition and membrane curvature on fluorescence and solvent relaxation kinetics in unilamellar vesicles. <i>Journal of Fluorescence</i> , 1993, 3, 257-259.	2.5	6
185	Formation of arenicin-1 microdomains in bilayers and their specific lipid interaction revealed by Z-scan FCS. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 399, 3547-3554.	3.7	6
186	Does fluoride disrupt hydrogen bond network in cationic lipid bilayer? Time-dependent fluorescence shift of Laurdan and molecular dynamics simulations. <i>Journal of Chemical Physics</i> , 2014, 141, 22D516.	3.0	6
187	Phospholipid lateral diffusion in phosphatidylcholine-sphingomyelin-cholesterol monolayers; Effects of oxidatively truncated phosphatidylcholines. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2015, 1848, 167-173.	2.6	6
188	6,7-dimethoxy-coumarin as a probe of hydration dynamics in biologically relevant systems. <i>Methods and Applications in Fluorescence</i> , 2018, 6, 025005.	2.3	6
189	Light-Induced Nanosecond Relaxation Dynamics of Rhenium-Labeled <i>Pseudomonas aeruginosa</i> Azurins. <i>Journal of Physical Chemistry B</i> , 2020, 124, 788-797.	2.6	6
190	Intramolecular deactivation of substituted quinolinium cations. Time-resolved fluorescence and semi-empirical calculations. <i>Chemical Physics Letters</i> , 1994, 220, 423-428.	2.6	5
191	Potential controlled adsorption and lateral mobility of DOPC on polycrystalline gold – an EQCM and in situ fluorescence microscopy study. <i>Journal of Electroanalytical Chemistry</i> , 2006, 588, 296-302.	3.8	5
192	Investigation of Nanoparticle Coating by Fluorescence Correlation Spectroscopy. <i>Macromolecular Chemistry and Physics</i> , 2008, 209, 1447-1453.	2.2	5
193	pH-Dependent Behavior of Hydrophobically Modified Polyelectrolyte Shells of Polymeric Nanoparticles. <i>Macromolecular Symposia</i> , 2008, 273, 95-102.	0.7	5
194	Interaction of new butyltin citrate complex with lipid model membrane and DNA. <i>Journal of Thermal Analysis and Calorimetry</i> , 2014, 118, 967-975.	3.6	5
195	Hepatic Tumor Cell Morphology Plasticity under Physical Constraints in 3D Cultures Driven by YAP-mTOR Axis. <i>Pharmaceuticals</i> , 2020, 13, 430.	3.8	5
196	Optical Near-Field Electron Microscopy. <i>Physical Review Applied</i> , 2021, 16, .	3.8	5
197	Time-resolved fluorescence spectroscopy of helically distorted aromatic systems. <i>Chemical Physics Letters</i> , 1997, 272, 478-483.	2.6	4
198	Octadecylrhodamine B as a Specific Micelle-Binding Fluorescent Tag for Fluorescence Correlation Spectroscopy Studies of Amphiphilic Water-Soluble Block Copolymer Micelles. <i>Spectroscopic Behavior in Aqueous Media. Collection of Czechoslovak Chemical Communications</i> , 2003, 68, 2105-2119.	1.0	4

#	ARTICLE	IF	CITATIONS
199	Monte Carlo simulation of fluorescence correlation spectroscopy data. Collection of Czechoslovak Chemical Communications, 2011, 76, 207-222.	1.0	4
200	Oxidation of Cholesterol Changes the Permeability of Lipid Membranes. Biophysical Journal, 2017, 112, 377a.	0.5	4
201	Amphiphilic Block Copolymer Micelles with Hydrophobically Modified Shells. Molecular Simulation, 2003, 29, 655-660.	2.0	3
202	Absence of Ethanol-Induced Interdigitation in Supported Phospholipid Bilayers on Silica Surfaces. Langmuir, 2008, 24, 19-21.	3.5	3
203	Dipolar Relaxation Dynamics at the Active Site of an ATPase Regulated by Membrane Lateral Pressure. Angewandte Chemie, 2017, 129, 1289-1292.	2.0	3
204	Z-Scan Fluorescence Correlation Spectroscopy: A Powerful Tool for Determination of Lateral Diffusion in Biological Systems. Reviews in Fluorescence, 2011, , 321-344.	0.5	3
205	Solvent-Dependent Excited-State Evolution of Prodan Dyes. Journal of Physical Chemistry B, 2021, 125, 13858-13867.	2.6	3
206	Title is missing!. European Physical Journal D, 1998, 48, 435-441.	0.4	2
207	Some Aspects of DNA Condensation Observed by Fluorescence Correlation Spectroscopy. , 2005, , 109-124.		2
208	Fluorescence Correlation Spectroscopic Studies of a Single Lipopolyamine-DNA Nanoparticle. Springer Series on Fluorescence, 2007, , 381-413.	0.8	2
209	Hydration and Mobility in Lipid Bilayers Probed by Time-Dependent Fluorescence Shift. Springer Series on Fluorescence, 2012, , 141-159.	0.8	2
210	Lipid and DNA interaction with the triorganotin dimethylaminophenylazobenzoates studied by DSC and spectroscopy methods. Journal of Thermal Analysis and Calorimetry, 2018, 134, 691-700.	3.6	2
211	Fluorescence lifetime correlation spectroscopy. , 2007, , .		1
212	A Multi Time-Scale Approach of the Lipid Bilayer Dynamics. Behavior Research Methods, 2012, , 105-137.	4.0	1
213	Impact of Oxidized Phospholipids on Membrane Organization. Biophysical Journal, 2013, 104, 249a.	0.5	1
214	Biophysical properties of cationic lipophosphoramidates: Vesicle morphology, bilayer hydration and dynamics. Colloids and Surfaces B: Biointerfaces, 2015, 136, 192-200.	5.0	1
215	GM 1 -Gangliosid hemmt die Amyloid-Oligomerisation, wAhrend Sphingomyelin diese initiiert. Angewandte Chemie, 2016, 128, 9557-9562.	2.0	1
216	Oxidation of Cholesterol Changes the Physical Properties of Lipid Membranes. Biophysical Journal, 2016, 110, 84a.	0.5	1

#	ARTICLE	IF	CITATIONS
217	Mitochondrial Membrane Organization in Regulation of Apoptosis. <i>Biophysical Journal</i> , 2017, 112, 224a.	0.5	1
218	Fluorescence Solvent Relaxation in Cationic Membranes. <i>Reviews in Fluorescence</i> , 2009, , 119-137.	0.5	1
219	Editorial: 8th Conference on Methods and Applications of Fluorescence: Spectroscopy, Imaging and Probes. <i>Journal of Fluorescence</i> , 2004, 14, 1.	2.5	0
220	Advanced multifocus confocal laser scanning microscope for single molecule studies. , 2005, , .		0
221	Principles and applications of fluorescence lifetime correlation spectroscopy. <i>Proceedings of SPIE</i> , 2009, , .	0.8	0
222	Solvent relaxation studies applied to stimuli-responsive core-shell nanoparticles. <i>Proceedings of SPIE</i> , 2010, , .	0.8	0
223	Impact of Oxidized Lipids on Membrane Organization and Protein Misfolding. <i>Biophysical Journal</i> , 2011, 100, 339a.	0.5	0
224	Hydration and Mobility of Oxidized Phospholipid Bilayer: Fluorescence Solvent Relaxation and Fluorescence Correlation Spectroscopy Study. <i>Biophysical Journal</i> , 2011, 100, 502a.	0.5	0
225	Dynamics and Size of Crosslinking-Induced Lipid Nanodomains in Model Membranes. <i>Biophysical Journal</i> , 2012, 102, 294a.	0.5	0
226	Impact of Oxidized Lipids on Membrane Structure and Dynamics and its Interactions with Proteins. <i>Biophysical Journal</i> , 2012, 102, 648a.	0.5	0
227	The Impact of Oxidized Phospholipids on Lipid Membranes: Consequences for Mitochondrial Apoptosis. <i>Biophysical Journal</i> , 2014, 106, 634a.	0.5	0
228	Shape Pairing of Cholesterol with Oxidized Phospholipid Species in Lipid Bilayers. <i>Biophysical Journal</i> , 2014, 106, 79a.	0.5	0
229	Nature and Size of Ganglioside GM1 Nano-Domains in Lipid Bilayers as Revealed by Advanced Time-Resolved Fluorescence Techniques. <i>Biophysical Journal</i> , 2015, 108, 79a.	0.5	0
230	BCL-2 Family Proteins Effect on Mitochondrial-Mimicking Membrane Structure by Solid State NMR. <i>Biophysical Journal</i> , 2015, 108, 251a-252a.	0.5	0
231	The Effect of Oxidized Lipids on the Interplay of Bcl-2 and Bax Proteins at Mitochondrial Membranes. <i>Biophysical Journal</i> , 2015, 108, 558a.	0.5	0
232	The Role of Lipids in Regulation of Programmed Cell Death. <i>Biophysical Journal</i> , 2016, 110, 473a.	0.5	0
233	RÅ¼cktitelbild: GM₁â€Gangliosid hemmt die Î²â€Amyloidâ€Oligomerisation, wÃhrend Sphingomyelin diese initiiert (<i>Angew. Chem.</i> 32/2016). <i>Angewandte Chemie</i> , 2016, 128, 9592-9592.	2.0	0
234	GUV and LUV Leakage: How All-Or-None and Graded Leakage Scale with Vesicle Size. <i>Biophysical Journal</i> , 2017, 112, 527a.	0.5	0

#	ARTICLE	IF	CITATIONS
235	Oxidized Lipids: Their Role in Regulation of Mitochondrial Apoptosis. Biophysical Journal, 2017, 112, 478a.	0.5	0
236	Oxysterol Translocation through Lipid Bilayers. Biophysical Journal, 2018, 114, 261a.	0.5	0
237	Fluorescence Correlation Spectroscopy of Lipid Membranes. , 2018, , 1-8.		0
238	Oxidatively Stressed Mitochondrial Membranes: Insight into their Organization and Function during Apoptosis. Biophysical Journal, 2018, 114, 33a.	0.5	0
239	Kink in Helical Peptides Affects Membrane Pore Formation. Biophysical Journal, 2019, 116, 512a.	0.5	0
240	Distinct Interactions of Sodium and Calcium Cations and Neutral Phospholipid Membranes and How to Simulate Them. Biophysical Journal, 2019, 116, 90a-91a.	0.5	0
241	Time-Resolved Tryptophan Fluorescence of Fragment 1-86 of Factor X and the Influence of Membrane Binding. Collection of Czechoslovak Chemical Communications, 2002, 67, 1872-1882.	1.0	0
242	Binding of Prothrombin Fragment 1 to Phosphatidylserine Containing Vesicles: A Solvent Relaxation Study. , 1996, , 223-227.		0