Martin Hof

List of Publications by Citations

219 papers	6,097 citations	41 h-index	65 g-index
251 ext. papers	6,895 ext. citations	4.5 avg, IF	5.67 L-index

#	Paper	IF	Citations
219	Lipid diffusion in giant unilamellar vesicles is more than 2 times faster than in supported phospholipid bilayers under identical conditions. *Langmuir*, **2006**, 22, 9096-9	4	212
218	How To Determine Diffusion Coefficients in Planar Phospholipid Systems by Confocal Fluorescence Correlation Spectroscopy. *Langmuir*, **2003**, 19, 4120-4126	4	199
217	Lipid diffusion in planar membranes investigated by fluorescence correlation spectroscopy. *Biochimica Et Biophysica Acta - Biomembranes*, **2010**, 1798, 1377-91	3.8	176
216	The complex nature of calcium cation interactions with phospholipid bilayers. *Scientific Reports*, **2016**, 6, 38035	4.9	141
215	Effects of alkali cations and halide anions on the DOPC lipid membrane. *Journal of Physical Chemistry A*, **2009**, 113, 7235-43	2.8	133
214	Fluorescence lifetime correlation spectroscopy. *Journal of Fluorescence*, **2007**, 17, 43-8	2.4	131
213	Molecular rheometry: direct determination of viscosity in Lo and Ld lipid phases via fluorescence lifetime imaging. *Physical Chemistry Chemical Physics*, **2013**, 15, 14986-93	3.6	117
212	Headgroup hydration and mobility of DOTAP/DOPC bilayers: a fluorescence solvent relaxation study. *Langmuir*, **2006**, 22, 8741-9	4	111
211	Probing diffusion laws within cellular membranes by Z-scan fluorescence correlation spectroscopy. *Biophysical Journal*, **2006**, 91, L23-5	2.9	109
210	Dual epitope recognition by the VASP EVH1 domain modulates polyproline ligand specificity and binding affinity. *EMBO Journal*, **2000**, 19, 4903-14	13	103
209	On What Time Scale Does Solvent Relaxation in Phospholipid Bilayers Happen?. *Langmuir*, **2002**, 18, 571-574	4	101
208	Oxidation changes physical properties of phospholipid bilayers: fluorescence spectroscopy and molecular simulations. *Langmuir*, **2010**, 26, 6140-4	4	95
207	Biophysics of lipid bilayers containing oxidatively modified phospholipids: insights from fluorescence and EPR experiments and from MD simulations. *Biochimica Et Biophysica Acta - Biomembranes*, **2012**, 1818, 2388-402	3.8	92
206	Solvent relaxation in phospholipid bilayers: principles and recent applications. *Journal of Fluorescence*, **2005**, 15, 883-94	2.4	91
205	Arginine-rich cell-penetrating peptides induce membrane multilamellarity and subsequently enter via formation of a fusion pore. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 11923-11928	11.5	90
204	Membrane Lipid Nanodomains. *Chemical Reviews*, **2018**, 118, 11259-11297	68.1	89
203	Structure, dynamics, and hydration of POPC/POPS bilayers suspended in NaCl, KCl, and CsCl solutions. *Biochimica Et Biophysica Acta - Biomembranes*, **2012**, 1818, 609-16	3.8	86

202	A Rotational BODIPY Nucleotide: An Environment-Sensitive Fluorescence-Lifetime Probe for DNA Interactions and Applications in Live-Cell Microscopy. *Angewandte Chemie - International Edition*, **2016**, 55, 174-8	16.4	85
201	Mechanism of interaction of monovalent ions with phosphatidylcholine lipid membranes. *Journal of Physical Chemistry B*, **2010**, 114, 9504-9	3.4	81
200	Oxidized phosphatidylcholines facilitate phospholipid flip-flop in liposomes. *Biophysical Journal*, **2011**, 101, 1376-84	2.9	80
199	The differential interaction of snRNPs with pre-mRNA reveals splicing kinetics in living cells. *Journal of Cell Biology*, **2010**, 191, 75-86	7.3	79
198	Laurdan and Di-4-ANEPPDHQ probe different properties of the membrane. *Journal Physics D: Applied Physics*, **2017**, 50, 134004	3	78
197	Surface-dependent transitions during self-assembly of phospholipid membranes on mica, silica, and glass. *Langmuir*, **2004**, 20, 10129-37	4	70
196	Binding and relaxation behaviour of prodan and patman in phospholipid vesicles: a fluorescence and 1H NMR study. *Biophysical Chemistry*, **1996**, 61, 151-60	3.5	62
195	Photofunctional polyurethane nanofabrics doped by zinc tetraphenylporphyrin and zinc phthalocyanine photosensitizers. *Journal of Fluorescence*, **2009**, 19, 705-13	2.4	61
194	Lipid hydration and mobility: an interplay between fluorescence solvent relaxation experiments and molecular dynamics simulations. *Biochimie*, **2012**, 94, 26-32	4.6	60
193	Fluorescence lifetime correlation spectroscopy combined with lifetime tuning: new perspectives in supported phospholipid bilayer research. *Langmuir*, **2006**, 22, 9580-5	4	60
192	Light-Emission Performance of Silicon Nanocrystals Deduced from Single Quantum Dot Spectroscopy. *Advanced Functional Materials*, **2008**, 18, 2666-2672	15.6	59
191	GM1 Ganglioside Inhibits β-Amyloid Oligomerization Induced by Sphingomyelin. *Angewandte Chemie - International Edition*, **2016**, 55, 9411-5	16.4	57
190	Influence of the curvature on the water structure in the headgroup region of phospholipid bilayer studied by the solvent relaxation technique. *Chemistry and Physics of Lipids*, **2005**, 135, 213-21	3.7	56
189	Time-resolved fluorescence in lipid bilayers: selected applications and advantages over steady state. *Biophysical Journal*, **2014**, 107, 2751-2760	2.9	51
188	Relaxation dynamics of Pseudomonas aeruginosa Re(I)(CO)3(alpha-diimine)(HisX)+ (X = 83, 107, 109, 124, 126)Cu(II) azurins. *Journal of the American Chemical Society*, **2009**, 131, 11788-800	16.4	51
187	Fluorescence Lifetime Correlation Spectroscopy (FLCS): concepts, applications and outlook. *International Journal of Molecular Sciences*, **2012**, 13, 12890-910	6.3	49
186	Solvatochromic fluorene-linked nucleoside and DNA as color-changing fluorescent probes for sensing interactions. *Chemical Science*, **2016**, 7, 5775-5785	9.4	46
185	Cholesterol under oxidative stress-How lipid membranes sense oxidation as cholesterol is being replaced by oxysterols. *Free Radical Biology and Medicine*, **2015**, 84, 30-41	7.8	45

184	Fluorescence of nitrobenzoxadiazole (NBD)-labeled lipids in model membranes is connected not to lipid mobility but to probe location. *Physical Chemistry Chemical Physics*, **2016**, 18, 7042-54	3.6	43
183	Dynamics and hydration explain failed functional transformation in dehalogenase design. *Nature Chemical Biology*, **2014**, 10, 428-30	11.7	43
182	Dynamics and size of cross-linking-induced lipid nanodomains in model membranes. *Biophysical Journal*, **2012**, 102, 2104-13	2.9	43
181	Microscopic origin of the fast blue-green luminescence of chemically synthesized non-oxidized silicon quantum dots. *Small*, **2012**, 8, 3185-91	11	43
180	Absorption and fluorescence of PRODAN in phospholipid bilayers: a combined quantum mechanics and classical molecular dynamics study. *Journal of Physical Chemistry A*, **2011**, 115, 11428-37	2.8	41
179	Recent developments in fluorescence correlation spectroscopy for diffusion measurements in planar lipid membranes. *International Journal of Molecular Sciences*, **2010**, 11, 427-57	6.3	41
178	Solvent relaxation study of pH-dependent hydration of poly(oxyethylene) shells in polystyrene-block-poly(2-vinylpyridine)-block-poly(oxyethylene) micelles in aqueous solutions. *Journal of Physical Chemistry A*, **2005**, 109, 10803-12	2.8	41
177	Interaction of fluorescently substituted metallacarboranes with cyclodextrins and phospholipid bilayers: fluorescence and light scattering study. *Langmuir*, **2010**, 26, 6268-75	4	40
176	Spectral analysis of doxorubicin accumulation and the indirect quantification of its DNA intercalation. *European Journal of Pharmaceutics and Biopharmaceutics*, **2010**, 76, 514-24	5.7	39
175	Key steps in unconventional secretion of fibroblast growth factor 2 reconstituted with purified components. *ELife*, **2017**, 6,	8.9	39
174	Experimental determination and computational interpretation of biophysical properties of lipid bilayers enriched by cholesteryl hemisuccinate. *Biochimica Et Biophysica Acta - Biomembranes*, **2015**, 1848, 422-32	3.8	38
173	Numerical studies of the membrane fluorescent dyes dynamics in ground and excited states. *Biochimica Et Biophysica Acta - Biomembranes*, **2010**, 1798, 1724-34	3.8	38
172	Nanosecond time-dependent Stokes shift at the tunnel mouth of haloalkane dehalogenases. *Journal of the American Chemical Society*, **2009**, 131, 494-501	16.4	36
171	Solvent Relaxation of Prodan and Patman: A Useful Tool for the Determination of Polarity and Rigidity Changes in Membranes. *Journal of Fluorescence*, **1998**, 8, 389-393	2.4	36
170	Time Resolved Fluorescence in Doped Aerogels and Organosilicate Glasses. *Zeitschrift Fur Elektrotechnik Und Elektrochemie*, **1989**, 93, 1377-1381		36
169	On multivalent receptor activity of GM1 in cholesterol containing membranes. *Biochimica Et Biophysica Acta - Molecular Cell Research*, **2015**, 1853, 850-7	4.9	35
168	Effect of heavy water on phospholipid membranes: experimental confirmation of molecular dynamics simulations. *Physical Chemistry Chemical Physics*, **2012**, 14, 14516-22	3.6	34
167	Surface sticking and lateral diffusion of lipids in supported bilayers. *Langmuir*, **2006**, 22, 9339-44	4	34

166	Bilayer localization of membrane-active peptides studied in biomimetic vesicles by visible and fluorescence spectroscopies. *FEBS Journal*, **2003**, 270, 4478-87		34
165	Solvent relaxation behaviour of n-anthroyloxy fatty acids in PC-vesicles and paraffin oil: a time-resolved emission spectra study. *Biochimica Et Biophysica Acta - Biomembranes*, **1997**, 1323, 195-207	3.8	33
164	Hybrid Block Copolymer Micelles with Partly Hydrophobically Modified Polyelectrolyte Shells in Polar and Aqueous Media:Experimental Study Using Fluorescence Correlation Spectroscopy, Time-Resolved Fluorescence, Light Scattering, and Atomic Force Microscopy *Journal of Physical Chemistry B*, **2003**, 107, 8232-8240	3.4	33
163	The C-terminal domain of Brd2 is important for chromatin interaction and regulation of transcription and alternative splicing. *Molecular Biology of the Cell*, **2013**, 24, 3557-68	3.5	32
162	An Amphiphilic Hemicyanine Dye Employed as a Sensitive Probe of Water in Reverse AOT Micelles. *Langmuir*, **1997**, 13, 2181-2183	4	32
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159	The application of fluorescence correlation spectroscopy in detecting DNA condensation. *Biophysical Chemistry*, **2002**, 95, 135-44	3.5	32
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156	Two cations, two mechanisms: interactions of sodium and calcium with zwitterionic lipid membranes. *Chemical Communications*, **2017**, 53, 5380-5383	5.8	30
155	Singlet oxygen imaging in polymeric nanofibers by delayed fluorescence. *Journal of Physical Chemistry B*, **2010**, 114, 15773-9	3.4	30
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153	Pairing of cholesterol with oxidized phospholipid species in lipid bilayers. *Soft Matter*, **2014**, 10, 639-47	3.6	29
152	Light Scattering, Atomic Force Microscopy and Fluorescence Correlation Spectroscopy Studies of Polystyrene-block-poly(2-vinylpyridine)-block-poly(ethylene oxide) Micelles. *Collection of Czechoslovak Chemical Communications*, **2003**, 68, 2120-2138		29
151	Nanoparticle core stability and surface functionalization drive the mTOR signaling pathway in hepatocellular cell lines. *Scientific Reports*, **2017**, 7, 16049	4.9	28
150	Binding of prothrombin and its fragment 1 to phospholipid membranes studied by the solvent relaxation technique. *Biochimica Et Biophysica Acta - Biomembranes*, **1998**, 1414, 155-64	3.8	28
149	Time-dependent stokes shifts of fluorescent dyes in the hydrophobic backbone region of a phospholipid bilayer: combination of fluorescence spectroscopy and ab initio calculations. *Journal of Physical Chemistry B*, **2007**, 111, 5869-77	3.4	28

148	Aggregation of oligoarginines at phospholipid membranes: molecular dynamics simulations, time-dependent fluorescence shift, and biomimetic colorimetric assays. *Journal of Physical Chemistry B*, **2013**, 117, 11530-40	3.4	27
147	Behavior of 4-hydroxynonenal in phospholipid membranes. *Journal of Physical Chemistry B*, **2012**, 116, 6411-5	3.4	27
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145	A comprehensive study in triblock copolymer membrane interaction. *Journal of Controlled Release*, **2011**, 151, 57-64	11.7	27
144	Impact of GM on Membrane-Mediated Aggregation/Oligomerization of ▯Amyloid: Unifying View. *Biophysical Journal*, **2017**, 113, 1194-1199	2.9	26
143	Expansion of access tunnels and active-site cavities influence activity of haloalkane dehalogenases in organic cosolvents. *ChemBioChem*, **2013**, 14, 890-7	3.8	26
142	Equilibrium dynamics of spermine-induced plasmid DNA condensation revealed by fluorescence lifetime correlation spectroscopy. *Biophysical Journal*, **2008**, 94, L17-9	2.9	26
141	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. *Journal of Physical Chemistry A*, **2008**, 112, 3506-14	2.8	26
140	Impact of oxidized phospholipids on the structural and dynamic organization of phospholipid membranes: a combined DSC and solid state NMR study. *Faraday Discussions*, **2013**, 161, 499-513; discussion 563-89	3.6	24
139	Lipopolyamine-mediated single nanoparticle formation of calf thymus DNA analyzed by fluorescence correlation spectroscopy. *Pharmaceutical Research*, **2006**, 23, 1564-73	4.5	24
138	A Rotational BODIPY Nucleotide: An Environment-Sensitive Fluorescence-Lifetime Probe for DNA Interactions and Applications in Live-Cell Microscopy. *Angewandte Chemie*, **2016**, 128, 182-186	3.6	24
137	Accurate determination of the orientational distribution of a fluorescent molecule in a phospholipid membrane. *Journal of Physical Chemistry B*, **2014**, 118, 855-63	3.4	22
136	FLIM studies of 22- and 25-NBD-cholesterol in living HEK293 cells: plasma membrane change induced by cholesterol depletion. *Chemistry and Physics of Lipids*, **2013**, 167-168, 62-9	3.7	22
135	Photoactive oriented films of layered double hydroxides. *Physical Chemistry Chemical Physics*, **2008**, 10, 4429-34	3.6	22
134	Fluorescence lifetime correlation spectroscopy reveals compaction mechanism of 10 and 49 kbp DNA and differences between polycation and cationic surfactant. *Journal of Physical Chemistry B*, **2008**, 112, 16823-9	3.4	22
133	Combination of ellipsometry, laser scanning microscopy and Z-scan fluorescence correlation spectroscopy elucidating interaction of cryptdin-4 with supported phospholipid bilayers. *Journal of Peptide Science*, **2008**, 14, 503-9	2.1	22
132	Propidium iodide and PicoGreen as dyes for the DNA fluorescence correlation spectroscopy measurements. *Journal of Fluorescence*, **2005**, 15, 179-83	2.4	22
131	Site-specific analysis of protein hydration based on unnatural amino acid fluorescence. *Journal of the American Chemical Society*, **2015**, 137, 4988-92	16.4	21

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129	Lipid Driven Nanodomains in Giant Lipid Vesicles are Fluid and Disordered. *Scientific Reports*, **2017**, 7, 5460	4.9	21
128	Muscovite (mica) allows the characterisation of supported bilayers by ellipsometry and confocal fluorescence correlation spectroscopy. *Biological Chemistry*, **2002**, 383, 337-41	4.5	21
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125	Peripheral and integral membrane binding of peptides characterized by time-dependent fluorescence shifts: focus on antimicrobial peptide LAH *Langmuir*, **2014**, 30, 6171-9	4	20
124	Fluorescence spectroscopy studies of HEK293 cells expressing DOR-Gi1 fusion protein; the effect of cholesterol depletion. *Biochimica Et Biophysica Acta - Biomembranes*, **2011**, 1808, 2819-29	3.8	20
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120	In vivo detection of RNA-binding protein interactions with cognate RNA sequences by fluorescence resonance energy transfer. *Rna*, **2009**, 15, 2063-71	5.8	19
119	Structural Studies of Thin AOT Films by Using the Polarity Fluorescent Probe Coumarin-153. *Langmuir*, **1997**, 13, 290-294	4	19
118	Bobbing of Oxysterols: Molecular Mechanism for Translocation of Tail-Oxidized Sterols through Biological Membranes. *Journal of Physical Chemistry Letters*, **2018**, 9, 1118-1123	6.4	18
117	New gluconamide-type cationic surfactants: Interactions with DNA and lipid membranes. *Biophysical Chemistry*, **2013**, 180-181, 44-54	3.5	18
116	Fluorescence spectral correlation spectroscopy (FSCS) for probes with highly overlapping emission spectra. *Optics Express*, **2014**, 22, 2973-88	3.3	18
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103	Apoptotic Bax at Oxidatively Stressed Mitochondrial Membranes: Lipid Dynamics and Permeabilization. *Biophysical Journal*, **2017**, 112, 2147-2158	2.9	14
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100	Thiophene-linked tetramethylbodipy-labeled nucleotide for viscosity-sensitive oligonucleotide probes of hybridization and protein-DNA interactions. *Organic and Biomolecular Chemistry*, **2020**, 18, 912-919	3.9	14
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93	Effect of helical kink in antimicrobial peptides on membrane pore formation. *ELife*, **2020**, 9,	8.9	13
92	Orientation of nitro-group governs the fluorescence lifetime of nitrobenzoxadiazole (NBD)-labeled lipids in lipid bilayers. *Physical Chemistry Chemical Physics*, **2019**, 21, 1682-1688	3.6	12
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80	Solvation and Solvent Relaxation in Swellable Copolymers as Studied by Time-Resolved Fluorescence Spectroscopy. *Journal of Fluorescence*, **2000**, 10, 383-392	2.4	11
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72	A comparative study on ganglioside micelles using electronic energy transfer, fluorescence correlation spectroscopy and light scattering techniques. *Physical Chemistry Chemical Physics*, **2009**, 11, 4335-43	3.6	10
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70	Membrane activity of the pentaene macrolide didehydroroflamycoin in model lipid bilayers. *Biochimica Et Biophysica Acta - Biomembranes*, **2015**, 1848, 444-52	3.8	9
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