Horst Vogel

List of Publications by Year in Descending Order

160 papers	11,333 citations	55 h-index	104 g-index
162 ext. papers	12,317 ext. citations	8.7 avg, IF	6.09 L-index

#	Paper	IF	Citations
160	International Union of Basic and Clinical Pharmacology. CX. Classification of Receptors for 5-hydroxytryptamine; Pharmacology and Function. *Pharmacological Reviews*, **2021**, 73, 310-520	22.5	48
159	Enhancing the Signaling of GPCRs via Orthosteric Ions. *ACS Central Science*, **2020**, 6, 274-282	16.8	11
158	Computational modeling of the olfactory receptor Olfr73 suggests a molecular basis for low potency of olfactory receptor-activating compounds. *Communications Biology*, **2019**, 2, 141	6.7	12
157	Advancing Drug Discovery via Artificial Intelligence. *Trends in Pharmacological Sciences*, **2019**, 40, 592-604	13.2	144
156	New Binding Sites, New Opportunities for GPCR Drug Discovery. *Trends in Biochemical Sciences*, **2019**, 44, 312-330	10.3	72
155	Exploring a new ligand binding site of G protein-coupled receptors. *Chemical Science*, **2018**, 9, 6480-6489	9.4	33
154	Single-Vesicle Assays Using Liposomes and Cell-Derived Vesicles: From Modeling Complex Membrane Processes to Synthetic Biology and Biomedical Applications. *Chemical Reviews*, **2018**, 118, 8598-8654	68.1	74
153	Expression, Biochemistry, and Stabilization with Camel Antibodies of Membrane Proteins: Case Study of the Mouse 5-HT3 Receptor. *Methods in Molecular Biology*, **2017**, 1635, 139-168	1.4	4
152	Two-dimensional crystallization of the mouse serotonin 5-HT receptor. *Micron*, **2017**, 92, 19-24	2.3	1
151	The Structure of the Mouse Serotonin 5-HT3 Receptor in Lipid Vesicles. *Structure*, **2016**, 24, 165-170	5.2	31
150	NK Cells Respond to Haptens by the Activation of Calcium Permeable Plasma Membrane Channels. *PLoS ONE*, **2016**, 11, e0151031	3.7	4
149	Mechanistic Studies on the Stereoselectivity of the Serotonin 5-HT1A Receptor. *Angewandte Chemie - International Edition*, **2016**, 55, 8661-5	16.4	23
148	Mechanistic Studies on the Stereoselectivity of the Serotonin 5-HT1A Receptor. *Angewandte Chemie*, **2016**, 128, 8803-8807	3.6	2
147	PyMOL and Inkscape Bridge the Data and the Data Visualization. *Structure*, **2016**, 24, 2041-2042	5.2	100
146	A Gating Mechanism of the Serotonin 5-HT3 Receptor. *Structure*, **2016**, 24, 816-825	5.2	35
145	The Molecular Mechanism of P2Y1 Receptor Activation. *Angewandte Chemie*, **2016**, 128, 10487-10491	3.6	0
144	The Molecular Mechanism of P2Y1 Receptor Activation. *Angewandte Chemie - International Edition*, **2016**, 55, 10331-5	16.4	41

143	Spontaneous Cdc42 polarization independent of GDI-mediated extraction and actin-based trafficking. *PLoS Biology*, **2015**, 13, e1002097	9.7	85
142	Molecular screening of cancer-derived exosomes by surface plasmon resonance spectroscopy. *Analytical and Bioanalytical Chemistry*, **2015**, 407, 5425-32	4.4	89
141	W2466.48 Opens a Gate for a Continuous Intrinsic Water Pathway during Activation of the Adenosine A2A Receptor. *Angewandte Chemie*, **2015**, 127, 566-569	3.6	13
140	The mechanism of ligand-induced activation or inhibition of δ- and κ-opioid receptors. *Angewandte Chemie - International Edition*, **2015**, 54, 7560-3	16.4	39
139	The Mechanism of Ligand-Induced Activation or Inhibition of δ- and κ-Opioid Receptors. *Angewandte Chemie*, **2015**, 127, 7670-7673	3.6	5
138	Microfluidics: Microfluidic Single-Cell Analysis with Affinity Beads (Small 22/2015). *Small*, **2015**, 11, 2606-2606	11	
137	Single Molecule Imaging Deciphers the Relation between Mobility and Signaling of a Prototypical G Protein-coupled Receptor in Living Cells. *Journal of Biological Chemistry*, **2015**, 290, 27723-35	5.4	24
136	Microfluidic Single-Cell Analysis with Affinity Beads. *Small*, **2015**, 11, 2607-13	11	9
135	W246(6.48) opens a gate for a continuous intrinsic water pathway during activation of the adenosine A2A receptor. *Angewandte Chemie - International Edition*, **2015**, 54, 556-9	16.4	46
134	Molecular and dimensional profiling of highly purified extracellular vesicles by fluorescence fluctuation spectroscopy. *Analytical Chemistry*, **2014**, 86, 7229-33	7.8	31
133	X-ray structure of the mouse serotonin 5-HT3 receptor. *Nature*, **2014**, 512, 276-81	50.4	297
132	Activation of G-protein-coupled receptors correlates with the formation of a continuous internal water pathway. *Nature Communications*, **2014**, 5, 4733	17.4	157
131	Electrostatic spray ionization mass spectrometry imaging. *Analytical Chemistry*, **2014**, 86, 2033-41	7.8	16
130	Single-Molecule Microscopy Deciphers the Relation between Trafficking and Signaling of the NK1 Receptor in Livings Cells. *Biophysical Journal*, **2014**, 106, 101a	2.9	
129	Seamless integration of dose-response screening and flow chemistry: efficient generation of structure-activity relationship data of β-secretase (BACE1) inhibitors. *Angewandte Chemie - International Edition*, **2014**, 53, 1704-8	16.4	39
128	The role of water and sodium ions in the activation of the δ-opioid receptor. *Angewandte Chemie - International Edition*, **2013**, 52, 10112-5	16.4	86
127	Monitoring proliferative activities of hormone-like odorants in human breast cancer cells by gene transcription profiling and electrical impedance spectroscopy. *Biosensors and Bioelectronics*, **2013**, 50, 431-6	11.8	8
126	Thermal unfolding of a mammalian pentameric ligand-gated ion channel proceeds at consecutive, distinct steps. *Journal of Biological Chemistry*, **2013**, 288, 5756-69	5.4	16

125	Downscaling the analysis of complex transmembrane signaling cascades to closed attoliter volumes. *PLoS ONE*, **2013**, 8, e70929	3.7	10
124	Insertion of T4-lysozyme (T4L) can be a useful tool for studying olfactory-related GPCRs. *Molecular BioSystems*, **2012**, 8, 1750-9		11
123	A zeptoliter volume meter for analysis of single protein molecules. *Nano Letters*, **2012**, 12, 370-5	11.5	22
122	Semisynthesis of fluorescent metabolite sensors on cell surfaces. *Journal of the American Chemical Society*, **2011**, 133, 16235-42	16.4	62
121	Activation of G-protein-coupled receptors in cell-derived plasma membranes supported on porous beads. *Journal of the American Chemical Society*, **2011**, 133, 16868-74	16.4	6
120	Individual particle handling in a microfluidic system based on parallel laser trapping. *Optics Letters*, **2011**, 36, 3182-4	3	1
119	Microfluidic array cytometer based on refractive optical tweezers for parallel trapping, imaging and sorting of individual cells. *Lab on A Chip*, **2011**, 11, 2432-9	7.2	60
118	Protein-binding microarray analysis of tumor suppressor AP2 target gene specificity. *PLoS ONE*, **2011**, 6, e22895	3.7	5
117	Overcoming barriers to membrane protein structure determination. *Nature Biotechnology*, **2011**, 29, 335-40	44.5	293
116	Deamidation and transamidation of substance P by tissue transglutaminase revealed by electron-capture dissociation fourier transform mass spectrometry. *Chemistry - A European Journal*, **2011**, 17, 486-97	4.8	11
115	Inside Cover: Deamidation and Transamidation of Substance P by Tissue Transglutaminase Revealed by Electron-Capture Dissociation Fourier Transform Mass Spectrometry (Chem. Eur. J. 2/2011). *Chemistry - A European Journal*, **2011**, 17, 398-398	4.8	
114	Correlated optical and electrical single-molecule measurements reveal conformational diffusion from ligand binding to channel gating in the nicotinic acetylcholine receptor. *ChemBioChem*, **2011**, 12, 2431-4	3.8	17
113	Tissue transglutaminase-mediated glutamine deamidation of beta-amyloid peptide increases peptide solubility, whereas enzymatic cross-linking and peptide fragmentation may serve as molecular triggers for rapid peptide aggregation. *Journal of Biological Chemistry*, **2011**, 286, 12172-88	5.4	27
112	Acetylcholine receptor organization in membrane domains in muscle cells: evidence for rapsyn-independent and rapsyn-dependent mechanisms. *Journal of Biological Chemistry*, **2011**, 286, 363-9	5.4	10
111	Membrane nanotubes drawn by optical tweezers transmit electrical signals between mammalian cells over long distances. *Lab on A Chip*, **2010**, 10, 2235-41	7.2	18
110	Large-scale production and study of a synthetic G protein-coupled receptor: human olfactory receptor 17-4. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 11925-30	11.5	83
109	Sensory attributes of complex tasting divalent salts are mediated by TRPM5 and TRPV1 channels. *Journal of Neuroscience*, **2009**, 29, 2654-62	6.6	38
108	Dual activities of odorants on olfactory and nuclear hormone receptors. *Journal of Biological Chemistry*, **2009**, 284, 30547-55	5.4	16

107	A cytotoxic ruthenium tris(bipyridyl) complex that accumulates at plasma membranes. *ChemBioChem*, **2009**, 10, 1796-800	3.8	77
106	The capsaicin receptor participates in artificial sweetener aversion. *Biochemical and Biophysical Research Communications*, **2008**, 376, 653-7	3.4	22
105	Increased mobility of major histocompatibility complex I-peptide complexes decreases the sensitivity of antigen recognition. *Journal of Biological Chemistry*, **2008**, 283, 24254-63	5.4	18
104	An integrated self-assembled nanofluidic system for controlled biological chemistries. *Angewandte Chemie - International Edition*, **2008**, 47, 5544-9	16.4	137
103	Fluorescent epibatidine agonists for neuronal and muscle-type nicotinic acetylcholine receptors. *Angewandte Chemie - International Edition*, **2007**, 46, 3505-8	16.4	22
102	Repetitive reversible labeling of proteins at polyhistidine sequences for single-molecule imaging in live cells. *ChemPhysChem*, **2007**, 8, 1221-7	3.2	38
101	Micropositioning and microscopic observation of individual picoliter-sized containers within SU-8 microchannels. *Microfluidics and Nanofluidics*, **2007**, 3, 189-194	2.8	16
100	A FRET map of membrane anchors suggests distinct microdomains of heterotrimeric G proteins. *Journal of Cell Science*, **2007**, 120, 2953-62	5.3	45
99	Refractive multiple optical tweezers for parallel biochemical analysis in micro-fluidics **2007**,		2
98	Distribution plasticity of the human estrogen receptor alpha in live cells: distinct imaging of consecutively expressed receptors. *Journal of Molecular Biology*, **2007**, 374, 1213-23	6.5	12
97	Functional asymmetry of transmembrane segments in nicotinic acetylcholine receptors. *European Biophysics Journal*, **2006**, 35, 685-93	1.9	10
96	Post-translational covalent labeling reveals heterogeneous mobility of individual G protein-coupled receptors in living cells. *ChemBioChem*, **2006**, 7, 908-11	3.8	20
95	Multifunctional lipid/quantum dot hybrid nanocontainers for controlled targeting of live cells. *Angewandte Chemie - International Edition*, **2006**, 45, 5478-83	16.4	194
94	Organization of nanoparticles on hard substrates using block copolymer films as templates. *Journal of Nanoscience and Nanotechnology*, **2006**, 6, 1611-9	1.3	10
93	FRET imaging reveals that functional neurokinin-1 receptors are monomeric and reside in membrane microdomains of live cells. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 2138-43	11.5	196
92	Cell membranes suspended across nanoaperture arrays. *Langmuir*, **2006**, 22, 22-5	4	51
91	Fabrication and functionalization of nanochannels by electron-beam-induced silicon oxide deposition. *Langmuir*, **2006**, 22, 10711-5	4	80
90	Covalent labeling of cell-surface proteins for in-vivo FRET studies. *FEBS Letters*, **2006**, 580, 1654-8	3.8	22

89	Monitoring the diffusion of single heterotrimeric G proteins in supported cell-membrane sheets reveals their partitioning into microdomains. *Journal of Molecular Biology*, **2006**, 363, 918-30	6.5	33
88	Micro- and Nanostructured Devices for the Investigation of Biomolecular Interactions. *Chimia*, **2006**, 60, 754-760	1.3	7
87	Characterization of an extended receptive ligand repertoire of the human olfactory receptor OR17-40 comprising structurally related compounds. *Journal of Neurochemistry*, **2006**, 97, 537-44	6	73
86	Engineered site-directed labeling of nicotinic acetylcholine receptors using reactive epibatidine derivatives: appraisal of epibatidine-docking models in neuronal and muscular receptors. *Journal of Molecular Neuroscience*, **2006**, 30, 35-6	3.3	
85	Pumping of mammalian cells with a nozzle-diffuser micropump. *Lab on A Chip*, **2005**, 5, 1083-8	7.2	28
84	Investigating cellular signaling reactions in single attoliter vesicles. *Journal of the American Chemical Society*, **2005**, 127, 2908-12	16.4	107
83	CD8 kinetically promotes ligand binding to the T-cell antigen receptor. *Biophysical Journal*, **2005**, 89, 2121-33	2.9	53
82	Kinetics of the initial steps of G protein-coupled receptor-mediated cellular signaling revealed by single-molecule imaging. *ChemPhysChem*, **2005**, 6, 1633-40	3.2	30
81	Synthesis of nanoscopic optical fibers using lipid membranes as templates. *Angewandte Chemie - International Edition*, **2005**, 44, 4957-60	16.4	6
80	Cover Picture: Synthesis of Nanoscopic Optical Fibers Using Lipid Membranes as Templates (Angew. Chem. Int. Ed. 31/2005). *Angewandte Chemie - International Edition*, **2005**, 44, 4815-4815	16.4	
79	Ligand binding transmits conformational changes across the membrane-spanning region to the intracellular side of the 5-HT3 serotonin receptor. *ChemBioChem*, **2005**, 6, 2180-5	3.8	20
78	Reversible sequential-binding probe receptor-ligand interactions in single cells. *ChemBioChem*, **2005**, 6, 2187-94	3.8	12
77	Investigating the Function of Ion Channels in Tethered Lipid Membranes by Impedance Spectroscopy. *MRS Bulletin*, **2005**, 30, 207-210	3.2	24
76	CD8+ cytotoxic T lymphocyte activation by soluble major histocompatibility complex-peptide dimers. *Journal of Biological Chemistry*, **2005**, 280, 23820-8	5.4	46
75	Impedance Spectroscopy of Ion Channels in Tethered Lipid Bilayers. *E-Journal of Surface Science and Nanotechnology*, **2005**, 3, 203-206	0.7	3
74	Labeling of fusion proteins with synthetic fluorophores in live cells. *Proceedings of the National Academy of Sciences of the United States of America*, **2004**, 101, 9955-9	11.5	362
73	Downregulation of eRF1 by RNA interference increases mis-acylated tRNA suppression efficiency in human cells. *Protein Engineering, Design and Selection*, **2004**, 17, 821-7	1.9	6
72	Noninvasive imaging of 5-HT3 receptor trafficking in live cells: from biosynthesis to endocytosis. *Journal of Biological Chemistry*, **2004**, 279, 53346-52	5.4	47

71	Reversible site-selective labeling of membrane proteins in live cells. *Nature Biotechnology*, **2004**, 22, 440-4	44.5	260
70	Organization of nanoscale objects via polymer demixing. *Colloid and Polymer Science*, **2004**, 282, 1274-1278	2.4	22
69	Controlled immobilization of membrane proteins to surfaces for fourier transform infrared investigations. *Langmuir*, **2004**, 20, 7901-3	4	22
68	Specific labeling of cell surface proteins with chemically diverse compounds. *Journal of the American Chemical Society*, **2004**, 126, 8896-7	16.4	283
67	Nanocapsules with functionalized surfaces and walls. *IEEE Transactions on Nanobioscience*, **2004**, 3, 3-5	3.4	3
66	Integrated nanoreactor systems: triggering the release and mixing of compounds inside single vesicles. *Journal of the American Chemical Society*, **2004**, 126, 8594-5	16.4	154
65	Highly fluorescent streptavidin-coated CdSe nanoparticles: preparation in water, characterization, and micropatterning. *Langmuir*, **2004**, 20, 3828-31	4	83
64	Characterization of the ligand-binding site of the serotonin 5-HT3 receptor: the role of glutamate residues 97, 224, AND 235. *Journal of Biological Chemistry*, **2003**, 278, 22709-16	5.4	30
63	Oligomerization of the alpha 1a- and alpha 1b-adrenergic receptor subtypes. Potential implications in receptor internalization. *Journal of Biological Chemistry*, **2003**, 278, 40239-51	5.4	134
62	Reversible immobilization of peptides: surface modification and in situ detection by attenuated total reflection FTIR spectroscopy. *ChemPhysChem*, **2003**, 4, 268-75	3.2	49
61	Self-assembled microarrays of attoliter molecular vessels. *Angewandte Chemie - International Edition*, **2003**, 42, 5580-3	16.4	180
60	Cover Picture: Self-Assembled Microarrays of Attoliter Molecular Vessels (Angew. Chem. Int. Ed. 45/2003). *Angewandte Chemie - International Edition*, **2003**, 42, 5527-5527	16.4	1
59	A general method for the covalent labeling of fusion proteins with small molecules in vivo. *Nature Biotechnology*, **2003**, 21, 86-9	44.5	1394
58	Directed evolution of O6-alkylguanine-DNA alkyltransferase for efficient labeling of fusion proteins with small molecules in vivo. *Chemistry and Biology*, **2003**, 10, 313-7		231
57	Ligand Binding to G Protein-Coupled Receptors in Tethered Cell Membranes. *Langmuir*, **2003**, 19, 10925-10929	4	39
56	Orientation modulation of a synthetic polypeptide in self-assembled monolayers: a TOF-SIMS study. *Journal of the American Chemical Society*, **2003**, 125, 8911-5	16.4	37
55	Highly Electrically Insulating Tethered Lipid Bilayers for Probing the Function of Ion Channel Proteins. *Langmuir*, **2003**, 19, 5567-5569	4	127
54	Immunoaffinity screening with capillary electrochromatography. *Electrophoresis*, **2002**, 23, 1255-62	3.6	5

53	Self-assembly of the hydrophobin SC3 proceeds via two structural intermediates. *Protein Science*, **2002**, 11, 1199-205	6.3	83
52	Monitoring mis-acylated tRNA suppression efficiency in mammalian cells via EGFP fluorescence recovery. *Nucleic Acids Research*, **2002**, 30, e128	20.1	19
51	Stable self-assembly of a protein engineering scaffold on gold surfaces. *Protein Science*, **2002**, 11, 1917-25	6.3	65
50	In vitro and in vivo ligand binding to the 5HT(3) serotonin receptor characterised by time-resolved fluorescence spectroscopy. *ChemBioChem*, **2001**, 2, 205-11	3.8	7
49	The standard deviation in fluorescence correlation spectroscopy. *Biophysical Journal*, **2001**, 80, 2987-99	2.9	218
48	Immunosensing by a Synthetic Ligand-Gated Ion Channel Financial support from the board of the Swiss Federal Institutes of Technology (SPP Minast, 7.06) is acknowledged. We thank G. Corradin for numerous discussions and J. Lakey for critical reading of the manuscript.. *Angewandte Chemie - International Edition*, **2001**, 40, 1740-1743	16.4	11
47	Intrinsic biophysical monitors of transducin activation: fluorescence, UV-visible spectroscopy, light scattering, and evanescent field techniques. *Methods in Enzymology*, **2000**, 315, 471-89	1.7	37
46	A Chip-Based Biosensor for the Functional Analysis of Single Ion Channels We thank E. Ermanntraut, L. Giovangrandi, T. Wohland, A. Brecht, M. Köller, C. Bieri, D. Stamou, and R. Hovius for advice. This work was supported by the Swiss National Science Foundation (Priority Program for Biotechnology) and by an interdepartmental grant of the Swiss Federal Institute of Technology	16.4	190
45	Functional immobilisation of the nicotinic acetylcholine receptor in tethered lipid membranes. *Biophysical Chemistry*, **2000**, 85, 141-52	3.5	35
44	Parameter Recovery in Frequency-Domain Time-Resolved Fluorescence Spectroscopy; Resolution of the Prototropic Forms of 5-Carboxyfluorescein in the Physiological pH Range. *Journal of Fluorescence*, **2000**, 10, 325-332	2.4	6
43	Fluorescence techniques: shedding light on ligand-receptor interactions. *Trends in Pharmacological Sciences*, **2000**, 21, 266-73	13.2	91
42	Histidine-Tagged Amphiphiles for the Reversible Formation of Lipid Bilayer Aggregates on Chelator-Functionalized Gold Surfaces. *Langmuir*, **2000**, 16, 5471-5478	4	54
41	Immobilization of histidine-tagged proteins on gold surfaces using chelator thioalkanes. *Biosensors and Bioelectronics*, **1999**, 14, 155-61	11.8	97
40	Micropatterned immobilization of a G protein-coupled receptor and direct detection of G protein activation. *Nature Biotechnology*, **1999**, 17, 1105-8	44.5	248
39	Ion-Channel Gating in Transmembrane Receptor Proteins: Functional Activity in Tethered Lipid Membranes. *Angewandte Chemie - International Edition*, **1999**, 38, 389-392	16.4	112
38	Functional Molecular Thin Films: Topological Templates for the Chemoselective Ligation of Antigenic Peptides to Self-Assembled Monolayers. *Angewandte Chemie - International Edition*, **1999**, 38, 696-699	16.4	39
37	Ligand binding to nicotinic acetylcholine receptor investigated by surface plasmon resonance. *Analytical Chemistry*, **1999**, 71, 3157-65	7.8	25
36	Design of Oligonucleotide Arrays at Interfaces. *Langmuir*, **1999**, 15, 4317-4320	4	87

35	Resolution of fluorescence correlation measurements. *Biophysical Journal*, **1999**, 76, 1619-31	2.9	316
34	Polarization-modulated FTIR spectroscopy of lipid/gramicidin monolayers at the air/water interface. *Biophysical Journal*, **1999**, 76, 1639-47	2.9	65
33	The reaction centre of the photounit of Rhodospirillum rubrum is anchored to the light-harvesting complex with four-fold rotational disorder. *Photosynthesis Research*, **1998**, 55, 363-368	3.7	6
32	Emerging techniques for investigating molecular interactions at lipid membranes. *BBA - Biomembranes*, **1998**, 1376, 319-38		110
31	Functionalisation of gold surfaces via topological templates. *Tetrahedron*, **1998**, 54, 3725-3734	2.4	15
30	Characterization of a mouse serotonin 5-HT3 receptor purified from mammalian cells. *Journal of Neurochemistry*, **1998**, 70, 824-34	6	44
29	Determination of the Surface Concentration of Crown Ethers in Supported Lipid Membranes by Capacitance Measurements. *Langmuir*, **1998**, 14, 2573-2576	4	5
28	Screening ligands for membrane protein receptors by total internal reflection fluorescence: the 5-HT3 serotonin receptor. *Analytical Chemistry*, **1998**, 70, 1331-8	7.8	59
27	Are the light-harvesting I complexes from Rhodospirillum rubrum arranged around the reaction centre in a square geometry?. *Journal of Molecular Biology*, **1998**, 282, 819-31	6.5	50
26	Direct Observation of Self-Assembled Monolayers, Ion Complexation, and Protein Conformation at the Gold/Water Interface: An FTIR Spectroscopic Approach. *Langmuir*, **1997**, 13, 4190-4192	4	45
25	Uniformly Flat Gold Surfaces: Imaging the Domain Structure of Organic Monolayers Using Scanning Force Microscopy. *Langmuir*, **1997**, 13, 2425-2428	4	87
24	Reversible oriented surface immobilization of functional proteins on oxide surfaces. *Analytical Chemistry*, **1997**, 69, 1979-85	7.8	134
23	Antibody binding to a functionalized supported lipid layer: a direct acoustic immunosensor. *Analytical Chemistry*, **1997**, 69, 4808-13	7.8	85
22	Incorporation and Antibody Recognition of a Lipid-Anchored Membrane Protein in Supported Lipid Layers. *Journal of Colloid and Interface Science*, **1997**, 194, 53-8	9.3	20
21	Formation and Characterization of Lipopeptide Layers at Interfaces for the Molecular Recognition of Antibodies *Langmuir*, **1996**, 12, 5636-5642	4	26
20	Sulphur-bearing lipids for the covalent attachment of supported lipid bilayers to gold surfaces: a detailed characterisation and analysis. *Materials Science and Engineering C*, **1996**, 4, 7-18	8.3	23
19	Detection of supported lipid layers with the acoustic Love waveguide device: application to biosensors. *Sensors and Actuators B: Chemical*, **1996**, 34, 295-300	8.5	41
18	Probing the structure and function of the tachykinin neurokinin-2 receptor through biosynthetic incorporation of fluorescent amino acids at specific sites. *Journal of Biological Chemistry*, **1996**, 271, 19991-8	5.4	112

17	Antigen binding properties of purified immunoglobulin A and reconstituted secretory immunoglobulin A antibodies. *Journal of Biological Chemistry*, **1996**, 271, 16300-9	5.4	60
16	Covalent attachment of functionalized lipid bilayers to planar waveguides for measuring protein binding to biomimetic membranes. *Protein Science*, **1995**, 4, 2532-44	6.3	86
15	Reversible oriented immobilization of histidine-tagged proteins on gold surfaces using a chelator thioalkane. *Supramolecular Science*, **1995**, 2, 155-160		32
14	Template-assembled melittin: structural and functional characterization of a designed, synthetic channel-forming protein. *Protein Science*, **1994**, 3, 1788-805	6.3	62
13	Micrometer-Scale Lateral Structuring of Organic Thiolate Layers through Self-Organization. *Angewandte Chemie International Edition in English*, **1994**, 33, 1274-1276		36
12	A new class of thiolipids for the attachment of lipid bilayers on gold surfaces. *Langmuir*, **1994**, 10, 197-210	4	296
11	Protein binding to supported lipid membranes: investigation of the cholera toxin-ganglioside interaction by simultaneous impedance spectroscopy and surface plasmon resonance. *Langmuir*, **1993**, 9, 1361-1369	4	223
10	Structural fluctuations between two conformational states of a transmembrane helical peptide are related to its channel-forming properties in planar lipid membranes. *FEBS Journal*, **1993**, 212, 305-13		42
9	Structure and dynamics of polypeptides and proteins in lipid membranes. *Quarterly Reviews of Biophysics*, **1992**, 25, 433-57	7	17
8	Conditions for the existence of a counterflow in superfluid helium. *Physical Review B*, **1990**, 41, 11585-11587	3.7	3
7	Characterization of the promastigote surface protease of Leishmania as a membrane-bound zinc endopeptidase. *Molecular and Biochemical Parasitology*, **1989**, 37, 235-45	1.9	86
6	Models for the structure of outer-membrane proteins of Escherichia coli derived from raman spectroscopy and prediction methods. *Journal of Molecular Biology*, **1986**, 190, 191-9	6.5	341
5	Electrostatically induced change of the conformational order of charged lipid membranes. *Chemistry and Physics of Lipids*, **1983**, 32, 91-103	3.7	10
4	Incorporation of melittin into phosphatidylcholine bilayers. Study of binding and conformational changes. *FEBS Letters*, **1981**, 134, 37-42	3.8	151
3	Conformational order of the hydrocarbon chains in lipid bilayers. A raman spectroscopic study. *Chemistry and Physics of Lipids*, **1981**, 29, 83-101	3.7	31
2	Kinetics of the incorporation of cytochrome b5, an integral membrane protein, into unilamellar dimyristoyllecithin liposomes. *FEBS Letters*, **1978**, 87, 269-72	3.8	21
1	The role of metal ions in G protein-coupled receptor signalling and drug discovery. *Wiley Interdisciplinary Reviews: Computational Molecular Science*,e1565	7.9	0