

# Horst Vogel

## List of Publications by Year in descending order

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159  
papers

13,188  
citations

23500

58  
h-index

24179

110  
g-index

162  
all docs

162  
docs citations

162  
times ranked

13874  
citing authors

#	ARTICLE	IF	CITATIONS
1	A general method for the covalent labeling of fusion proteins with small molecules in vivo. Nature Biotechnology, 2003, 21, 86-89.	9.4	1,699
2	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, 9955-9959.	3.3	411
3	Models for the structure of outer-membrane proteins of Escherichia coli derived from raman spectroscopy and prediction methods. Journal of Molecular Biology, 1986, 190, 191-199.	2.0	378
4	X-ray structure of the mouse serotonin 5-HT3 receptor. Nature, 2014, 512, 276-281.	13.7	358
5	Resolution of Fluorescence Correlation Measurements. Biophysical Journal, 1999, 76, 1619-1631.	0.2	338
6	Overcoming barriers to membrane protein structure determination. Nature Biotechnology, 2011, 29, 335-340.	9.4	325
7	A new class of thiolipids for the attachment of lipid bilayers on gold surfaces. Langmuir, 1994, 10, 197-210.	1.6	323
8	Advancing Drug Discovery via Artificial Intelligence. Trends in Pharmacological Sciences, 2019, 40, 592-604.	4.0	316
9	Specific Labeling of Cell Surface Proteins with Chemically Diverse Compounds. Journal of the American Chemical Society, 2004, 126, 8896-8897.	6.6	312
10	Reversible site-selective labeling of membrane proteins in live cells. Nature Biotechnology, 2004, 22, 440-444.	9.4	284
11	Directed Evolution of O6-Alkylguanine-DNA Alkyltransferase for Efficient Labeling of Fusion Proteins with Small Molecules In Vivo. Chemistry and Biology, 2003, 10, 313-317.	6.2	279
12	Micropatterned immobilization of a G protein-coupled receptor and direct detection of G protein activation. Nature Biotechnology, 1999, 17, 1105-1108.	9.4	276
13	The Standard Deviation in Fluorescence Correlation Spectroscopy. Biophysical Journal, 2001, 80, 2987-2999.	0.2	261
14	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.	1.6	240
15	A Chip-Based Biosensor for the Functional Analysis of Single Ion Channels. Angewandte Chemie - International Edition, 2000, 39, 3137-3140.	7.2	218
16	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, 2138-2143.	3.3	218
17	Multifunctional Lipid/Quantum Dot Hybrid Nanocontainers for Controlled Targeting of Live Cells. Angewandte Chemie - International Edition, 2006, 45, 5478-5483.	7.2	208
18	Self-Assembled Microarrays of Attoliter Molecular Vessels. Angewandte Chemie - International Edition, 2003, 42, 5580-5583.	7.2	198

#	ARTICLE	IF	CITATIONS
19	Activation of G-protein-coupled receptors correlates with the formation of a continuous internal water pathway. <i>Nature Communications</i> , 2014, 5, 4733.	5.8	197
20	Incorporation of Melittin into phosphatidylcholine bilayers. <i>FEBS Letters</i> , 1981, 134, 37-42.	1.3	171
21	Integrated Nanoreactor Systems: Triggering the Release and Mixing of Compounds Inside Single Vesicles. <i>Journal of the American Chemical Society</i> , 2004, 126, 8594-8595.	6.6	163
22	PyMOL and Inkscape Bridge the Data and the Data Visualization. <i>Structure</i> , 2016, 24, 2041-2042.	1.6	155
23	Oligomerization of the $\alpha$ 1a- and $\alpha$ 1b-Adrenergic Receptor Subtypes. <i>Journal of Biological Chemistry</i> , 2003, 278, 40239-40251.	1.6	147
24	An Integrated Self-Assembled Nanofluidic System for Controlled Biological Chemistries. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 5544-5549.	7.2	144
25	Reversible Oriented Surface Immobilization of Functional Proteins on Oxide Surfaces. <i>Analytical Chemistry</i> , 1997, 69, 1979-1985.	3.2	143
26	Highly Electrically Insulating Tethered Lipid Bilayers for Probing the Function of Ion Channel Proteins. <i>Langmuir</i> , 2003, 19, 5567-5569.	1.6	132
27	Investigating Cellular Signaling Reactions in Single Attoliter Vesicles. <i>Journal of the American Chemical Society</i> , 2005, 127, 2908-2912.	6.6	129
28	International Union of Basic and Clinical Pharmacology. CX. Classification of Receptors for 5-hydroxytryptamine; Pharmacology and Function. <i>Pharmacological Reviews</i> , 2021, 73, 310-520.	7.1	127
29	Probing the Structure and Function of the Tachykinin Neurokinin-2 Receptor through Biosynthetic Incorporation of Fluorescent Amino Acids at Specific Sites. <i>Journal of Biological Chemistry</i> , 1996, 271, 19991-19998.	1.6	124
30	Emerging techniques for investigating molecular interactions at lipid membranes. <i>BBA - Biomembranes</i> , 1998, 1376, 319-338.	7.9	121
31	Ion-Channel Gating in Transmembrane Receptor Proteins: Functional Activity in Tethered Lipid Membranes. <i>Angewandte Chemie - International Edition</i> , 1999, 38, 389-392.	7.2	117
32	Single-Vesicle Assays Using Liposomes and Cell-Derived Vesicles: From Modeling Complex Membrane Processes to Synthetic Biology and Biomedical Applications. <i>Chemical Reviews</i> , 2018, 118, 8598-8654.	23.0	112
33	Immobilization of histidine-tagged proteins on gold surfaces using chelator thioalkanes. <i>Biosensors and Bioelectronics</i> , 1999, 14, 155-161.	5.3	109
34	Spontaneous Cdc42 Polarization Independent of GDI-Mediated Extraction and Actin-Based Trafficking. <i>PLoS Biology</i> , 2015, 13, e1002097.	2.6	107
35	Molecular screening of cancer-derived exosomes by surface plasmon resonance spectroscopy. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 5425-5432.	1.9	106
36	The Role of Water and Sodium Ions in the Activation of the $\mu$ -Opioid Receptor. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 10112-10115.	7.2	104

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37	New Binding Sites, New Opportunities for GPCR Drug Discovery. Trends in Biochemical Sciences, 2019, 44, 312-330.	3.7	104
38	Covalent attachment of functionalized lipid bilayers to planar waveguides for measuring protein binding to biomimetic membranes. Protein Science, 1995, 4, 2532-2544.	3.1	99
39	Characterization of the promastigote surface protease of Leishmania as a membrane-bound zinc endopeptidase. Molecular and Biochemical Parasitology, 1989, 37, 235-245.	0.5	97
40	Fluorescence techniques: shedding light on ligand-receptor interactions. Trends in Pharmacological Sciences, 2000, 21, 266-273.	4.0	96
41	Antibody Binding to a Functionalized Supported Lipid Layer: A Direct Acoustic Immunosensor. Analytical Chemistry, 1997, 69, 4808-4813.	3.2	95
42	Design of Oligonucleotide Arrays at Interfaces. Langmuir, 1999, 15, 4317-4320.	1.6	94
43	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, 11925-11930.	3.3	92
44	Uniformly Flat Gold Surfaces: Imaging the Domain Structure of Organic Monolayers Using Scanning Force Microscopy. Langmuir, 1997, 13, 2425-2428.	1.6	91
45	Fabrication and Functionalization of Nanochannels by Electron-Beam-Induced Silicon Oxide Deposition. Langmuir, 2006, 22, 10711-10715.	1.6	89
46	Highly Fluorescent Streptavidin-Coated CdSe Nanoparticles: Preparation in Water, Characterization, and Micropatterning. Langmuir, 2004, 20, 3828-3831.	1.6	87
47	Self-assembly of the hydrophobin SC3 proceeds via two structural intermediates. Protein Science, 2002, 11, 1199-1205.	3.1	85
48	A Cytotoxic Ruthenium Tris(Bipyridyl) Complex that Accumulates at Plasma Membranes. ChemBioChem, 2009, 10, 1796-1800.	1.3	82
49	Characterization of an extended receptive ligand repertoire of the human olfactory receptor OR17-40 comprising structurally related compounds. Journal of Neurochemistry, 2006, 97, 537-544.	2.1	77
50	Stable self-assembly of a protein engineering scaffold on gold surfaces. Protein Science, 2002, 11, 1917-1925.	3.1	70
51	Microfluidic array cytometer based on refractive optical tweezers for parallel trapping, imaging and sorting of individual cells. Lab on A Chip, 2011, 11, 2432.	3.1	70
52	Template-assembled melittin: Structural and functional characterization of a designed, synthetic channel-forming protein. Protein Science, 1994, 3, 1788-1805.	3.1	67
53	Screening Ligands for Membrane Protein Receptors by Total Internal Reflection Fluorescence: The 5-HT <sub>3</sub> Serotonin Receptor. Analytical Chemistry, 1998, 70, 1331-1338.	3.2	67
54	Polarization-Modulated FTIR Spectroscopy of Lipid/Gramicidin Monolayers at the Air/Water Interface. Biophysical Journal, 1999, 76, 1639-1647.	0.2	67

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55	Antigen Binding Properties of Purified Immunoglobulin A and Reconstituted Secretory Immunoglobulin A Antibodies. <i>Journal of Biological Chemistry</i> , 1996, 271, 16300-16309.	1.6	66		
56	Semisynthesis of Fluorescent Metabolite Sensors on Cell Surfaces. <i>Journal of the American Chemical Society</i> , 2011, 133, 16235-16242.	6.6	66		
57	W246 <sup>&lt;sup&gt;6.48&lt;/sup&gt;</sup>	Opens a Gate for a Continuous Intrinsic Water Pathway during Activation of the Adenosine <sup>2A&lt;/sup&gt;</sup>	Receptor. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 556-559.	7.2	64
58	Histidine-Tagged Amphiphiles for the Reversible Formation of Lipid Bilayer Aggregates on Chelator-Functionalized Gold Surfaces. <i>Langmuir</i> , 2000, 16, 5471-5478.	1.6	61		
59	Cell Membranes Suspended Across Nanoaperture Arrays. <i>Langmuir</i> , 2006, 22, 22-25.	1.6	59		
60	CD8 Kinetically Promotes Ligand Binding to the T-Cell Antigen Receptor. <i>Biophysical Journal</i> , 2005, 89, 2121-2133.	0.2	56		
61	Are the light-harvesting I complexes from <i>Rhodospirillum rubrum</i> arranged around the reaction centre in a square geometry? 1 Edited by R. Huber. <i>Journal of Molecular Biology</i> , 1998, 282, 819-831.	2.0	53		
62	Noninvasive Imaging of 5-HT <sub>3</sub> Receptor Trafficking in Live Cells. <i>Journal of Biological Chemistry</i> , 2004, 279, 53346-53352.	1.6	52		
63	Reversible Immobilization of Peptides: Surface Modification and In Situ Detection by Attenuated Total Reflection FTIR Spectroscopy. <i>ChemPhysChem</i> , 2003, 4, 268-275.	1.0	51		
64	CD8 <sup>+</sup> Cytotoxic T Lymphocyte Activation by Soluble Major Histocompatibility Complex-Peptide Dimers. <i>Journal of Biological Chemistry</i> , 2005, 280, 23820-23828.	1.6	49		
65	The Molecular Mechanism of P2Y <sub>1</sub> Receptor Activation. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 10331-10335.	7.2	49		
66	Direct Observation of Self-Assembled Monolayers, Ion Complexation, and Protein Conformation at the Gold/Water Interface: An FTIR Spectroscopic Approach. <i>Langmuir</i> , 1997, 13, 4190-4192.	1.6	48		
67	Structural fluctuations between two conformational states of a transmembrane helical peptide are related to its channel-forming properties in planar lipid membranes. <i>FEBS Journal</i> , 1993, 212, 305-313.	0.2	47		
68	A FRET map of membrane anchors suggests distinct microdomains of heterotrimeric G proteins. <i>Journal of Cell Science</i> , 2007, 120, 2953-2962.	1.2	47		
69	The Mechanism of Ligand-Induced Activation or Inhibition of $\mu$ - and $\delta$ -Opioid Receptors. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 7560-7563.	7.2	47		
70	Detection of supported lipid layers with the acoustic Love waveguide device: application to biosensors. <i>Sensors and Actuators B: Chemical</i> , 1996, 34, 295-300.	4.0	46		
71	Characterization of a Mouse Serotonin 5-HT <sub>3</sub> Receptor Purified from Mammalian Cells. <i>Journal of Neurochemistry</i> , 1998, 70, 824-834.	2.1	46		
72	Monitoring the Diffusion of Single Heterotrimeric G Proteins in Supported Cell-membrane Sheets Reveals their Partitioning into Microdomains. <i>Journal of Molecular Biology</i> , 2006, 363, 918-930.	2.0	46		

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73	Sensory Attributes of Complex Tasting Divalent Salts Are Mediated by TRPM5 and TRPV1 Channels. <i>Journal of Neuroscience</i> , 2009, 29, 2654-2662.	1.7	45
74	Seamless Integration of Dose-Response Screening and Flow Chemistry: Efficient Generation of Structure-Activity Relationship Data of $\beta$ -Secretase (BACE1) Inhibitors. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 1704-1708.	7.2	45
75	[32] Intrinsic biophysical monitors of transducin activation: Fluorescence, UV-visible spectroscopy, light scattering, and evanescent field techniques. <i>Methods in Enzymology</i> , 2000, 315, 471-489.	0.4	43
76	A Gating Mechanism of the Serotonin 5-HT <sub>3</sub> Receptor. <i>Structure</i> , 2016, 24, 816-825.	1.6	43
77	Functional Molecular Thin Films: Topological Templates for the Chemoselective Ligation of Antigenic Peptides to Self-Assembled Monolayers. <i>Angewandte Chemie - International Edition</i> , 1999, 38, 696-699.	7.2	42
78	Ligand Binding to G Protein-Coupled Receptors in Tethered Cell Membranes. <i>Langmuir</i> , 2003, 19, 10925-10929.	1.6	41
79	Repetitive Reversible Labeling of Proteins at Polyhistidine Sequences for Single-Molecule Imaging in Live Cells. <i>ChemPhysChem</i> , 2007, 8, 1221-1227.	1.0	41
80	Molecular and Dimensional Profiling of Highly Purified Extracellular Vesicles by Fluorescence Fluctuation Spectroscopy. <i>Analytical Chemistry</i> , 2014, 86, 7229-7233.	3.2	41
81	Orientation Modulation of a Synthetic Polypeptide in Self-Assembled Monolayers: A TOF-SIMS Study. <i>Journal of the American Chemical Society</i> , 2003, 125, 8911-8915.	6.6	38
82	Conformational order of the hydrocarbon chains in lipid bilayers. A raman spectroscopic study. <i>Chemistry and Physics of Lipids</i> , 1981, 29, 83-101.	1.5	37
83	Micrometer-Scale Lateral Structuring of Organic Thiolate Layers through Self-Organization. <i>Angewandte Chemie International Edition in English</i> , 1994, 33, 1274-1276.	4.4	37
84	Exploring a new ligand binding site of G protein-coupled receptors. <i>Chemical Science</i> , 2018, 9, 6480-6489.	3.7	37
85	The Structure of the Mouse Serotonin 5-HT <sub>3</sub> Receptor in Lipid Vesicles. <i>Structure</i> , 2016, 24, 165-170.	1.6	36
86	Reversible oriented immobilization of histidine-tagged proteins on gold surfaces using a chelator thioalkane. <i>Supramolecular Science</i> , 1995, 2, 155-160.	0.7	35
87	Functional immobilisation of the nicotinic acetylcholine receptor in tethered lipid membranes. <i>Biophysical Chemistry</i> , 2000, 85, 141-152.	1.5	35
88	Characterization of the Ligand-binding Site of the Serotonin 5-HT <sub>3</sub> Receptor. <i>Journal of Biological Chemistry</i> , 2003, 278, 22709-22716.	1.6	35
89	Kinetics of the Initial Steps of G Protein-Coupled Receptor-Mediated Cellular Signaling Revealed by Single-Molecule Imaging. <i>ChemPhysChem</i> , 2005, 6, 1633-1640.	1.0	35
90	Pumping of mammalian cells with a nozzle-diffuser micropump. <i>Lab on A Chip</i> , 2005, 5, 1083.	3.1	33

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91	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. <i>Journal of Biological Chemistry</i> , 2011, 286, 12172-12188.	1.6	32
92	Single Molecule Imaging Deciphers the Relation between Mobility and Signaling of a Prototypical G Protein-coupled Receptor in Living Cells. <i>Journal of Biological Chemistry</i> , 2015, 290, 27723-27735.	1.6	32
93	Formation and Characterization of Lipopeptide Layers at Interfaces for the Molecular Recognition of Antibodies. <i>Langmuir</i> , 1996, 12, 5636-5642.	1.6	31
94	Ligand Binding to Nicotinic Acetylcholine Receptor Investigated by Surface Plasmon Resonance. <i>Analytical Chemistry</i> , 1999, 71, 3157-3165.	3.2	30
95	The capsaicin receptor participates in artificial sweetener aversion. <i>Biochemical and Biophysical Research Communications</i> , 2008, 376, 653-657.	1.0	30
96	Covalent labeling of cell-surface proteins for in-vivo FRET studies. <i>FEBS Letters</i> , 2006, 580, 1654-1658.	1.3	29
97	Fluorescent Epibatidine Agonists for Neuronal and Muscle-Type Nicotinic Acetylcholine Receptors. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 3505-3508.	7.2	29
98	Sulphur-bearing lipids for the covalent attachment of supported lipid bilayers to gold surfaces: a detailed characterisation and analysis. <i>Materials Science and Engineering C</i> , 1996, 4, 7-18.	3.8	28
99	A Zeptoliter Volume Meter for Analysis of Single Protein Molecules. <i>Nano Letters</i> , 2012, 12, 370-375.	4.5	27
100	Mechanistic Studies on the Stereoselectivity of the Serotonin $5A$ Receptor. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 8661-8665.	7.2	27
101	Computational modeling of the olfactory receptor Olfr73 suggests a molecular basis for low potency of olfactory receptor-activating compounds. <i>Communications Biology</i> , 2019, 2, 141.	2.0	25
102	Investigating the Function of Ion Channels in Tethered Lipid Membranes by Impedance Spectroscopy. <i>MRS Bulletin</i> , 2005, 30, 207-210.	1.7	24
103	Enhancing the Signaling of GPCRs via Orthosteric Ions. <i>ACS Central Science</i> , 2020, 6, 274-282.	5.3	24
104	Post-translational Covalent Labeling Reveals Heterogeneous Mobility of Individual G Protein-Coupled Receptors in Living Cells. <i>ChemBioChem</i> , 2006, 7, 908-911.	1.3	23
105	Correlated Optical and Electrical Single-Molecule Measurements Reveal Conformational Diffusion from Ligand Binding to Channel Gating in the Nicotinic Acetylcholine Receptor. <i>ChemBioChem</i> , 2011, 12, 2431-2434.	1.3	23
106	Kinetics of the incorporation of cytochrome b5, an integral membrane protein, into unilamellar dimyristoyllecithin liposomes. <i>FEBS Letters</i> , 1978, 87, 269-272.	1.3	22
107	Organization of nanoscale objects via polymer demixing. <i>Colloid and Polymer Science</i> , 2004, 282, 1274-1278.	1.0	22
108	Controlled Immobilization of Membrane Proteins to Surfaces for Fourier Transform Infrared Investigations. <i>Langmuir</i> , 2004, 20, 7901-7903.	1.6	22

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109	Membrane nanotubes drawn by optical tweezers transmit electrical signals between mammalian cells over long distances. <i>Lab on A Chip</i> , 2010, 10, 2235.	3.1	22
110	Ligand Binding Transmits Conformational Changes across the Membrane-Spanning Region to the Intracellular Side of the 5-HT <sub>3</sub> Serotonin Receptor. <i>ChemBioChem</i> , 2005, 6, 2180-2185.	1.3	21
111	Increased Mobility of Major Histocompatibility Complex I-Peptide Complexes Decreases the Sensitivity of Antigen Recognition. <i>Journal of Biological Chemistry</i> , 2008, 283, 24254-24263.	1.6	21
112	Dual Activities of Odorants on Olfactory and Nuclear Hormone Receptors. <i>Journal of Biological Chemistry</i> , 2009, 284, 30547-30555.	1.6	21
113	Incorporation and Antibody Recognition of a Lipid-Anchored Membrane Protein in Supported Lipid Layers. <i>Journal of Colloid and Interface Science</i> , 1997, 194, 53-58.	5.0	20
114	Monitoring mis-acylated tRNA suppression efficiency in mammalian cells via EGFP fluorescence recovery. <i>Nucleic Acids Research</i> , 2002, 30, 128e-128.	6.5	20
115	Structure and dynamics of polypeptides and proteins in lipid membranes. <i>Quarterly Reviews of Biophysics</i> , 1992, 25, 433-457.	2.4	19
116	Thermal Unfolding of a Mammalian Pentameric Ligand-gated Ion Channel Proceeds at Consecutive, Distinct Steps*. <i>Journal of Biological Chemistry</i> , 2013, 288, 5756-5769.	1.6	18
117	Micropositioning and microscopic observation of individual picoliter-sized containers within SU-8 microchannels. <i>Microfluidics and Nanofluidics</i> , 2007, 3, 189-194.	1.0	17
118	Electrostatic Spray Ionization Mass Spectrometry Imaging. <i>Analytical Chemistry</i> , 2014, 86, 2033-2041.	3.2	17
119	Functionalisation of gold surfaces via topological templates. <i>Tetrahedron</i> , 1998, 54, 3725-3734.	1.0	16
120	Reversible Sequential-Binding Probe Receptor-Ligand Interactions in Single Cells. <i>ChemBioChem</i> , 2005, 6, 2187-2194.	1.3	14
121	Deamidation and Transamidation of Substance P by Tissue Transglutaminase Revealed by Electron Capture Dissociation Fourier Transform Mass Spectrometry. <i>Chemistry - A European Journal</i> , 2011, 17, 486-497.	1.7	13
122	Functional asymmetry of transmembrane segments in nicotinic acetylcholine receptors. <i>European Biophysics Journal</i> , 2006, 35, 685-693.	1.2	12
123	Distribution Plasticity of the Human Estrogen Receptor $\hat{\pm}$ in Live Cells: Distinct Imaging of Consecutively Expressed Receptors. <i>Journal of Molecular Biology</i> , 2007, 374, 1213-1223.	2.0	12
124	Downscaling the Analysis of Complex Transmembrane Signaling Cascades to Closed Attoliter Volumes. <i>PLoS ONE</i> , 2013, 8, e70929.	1.1	12
125	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.. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 1740-1743.	7.2	12
126	Electrostatically induced change of the conformational order of charged lipid membranes. <i>Chemistry and Physics of Lipids</i> , 1983, 32, 91-103.	1.5	11



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127	Acetylcholine Receptor Organization in Membrane Domains in Muscle Cells. <i>Journal of Biological Chemistry</i> , 2011, 286, 363-369.	1.6	11
128	Insertion of T4-lysozyme (T4L) can be a useful tool for studying olfactory-related GPCRs. <i>Molecular BioSystems</i> , 2012, 8, 1750.	2.9	11
129	The role of metal ions in G protein-coupled receptor signalling and drug discovery. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2022, 12, e1565.	6.2	11
130	Organization of Nanoparticles on Hard Substrates Using Block Copolymer Films as Templates. <i>Journal of Nanoscience and Nanotechnology</i> , 2006, 6, 1611-1619.	0.9	10
131	Monitoring proliferative activities of hormone-like odorants in human breast cancer cells by gene transcription profiling and electrical impedance spectroscopy. <i>Biosensors and Bioelectronics</i> , 2013, 50, 431-436.	5.3	9
132	Microfluidic Single-Cell Analysis with Affinity Beads. <i>Small</i> , 2015, 11, 2607-2613.	5.2	9
133	Micro- and Nanostructured Devices for the Investigation of Biomolecular Interactions. <i>Chimia</i> , 2006, 60, 754-760.	0.3	8
134	Title is missing!. <i>Photosynthesis Research</i> , 1998, 55, 363-368.	1.6	7
135	In Vitro and In Vivo Ligand Binding to the 5HT <sub>3</sub> Serotonin Receptor Characterised by Time-Resolved Fluorescence Spectroscopy. <i>ChemBioChem</i> , 2001, 2, 205-211.	1.3	7
136	Immunoaffinity screening with capillary electrochromatography. <i>Electrophoresis</i> , 2002, 23, 1255-1262.	1.3	7
137	Title is missing!. <i>Journal of Fluorescence</i> , 2000, 10, 325-332.	1.3	6
138	Downregulation of eRF1 by RNA interference increases mis-acylated tRNA suppression efficiency in human cells. <i>Protein Engineering, Design and Selection</i> , 2004, 17, 821-827.	1.0	6
139	Nanocapsules With Functionalized Surfaces and Walls. <i>IEEE Transactions on Nanobioscience</i> , 2004, 3, 3-5.	2.2	6
140	Synthesis of Nanoscopic Optical Fibers Using Lipid Membranes as Templates. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 4957-4960.	7.2	6
141	Activation of G-Protein-Coupled Receptors in Cell-Derived Plasma Membranes Supported on Porous Beads. <i>Journal of the American Chemical Society</i> , 2011, 133, 16868-16874.	6.6	6
142	NK Cells Respond to Haptens by the Activation of Calcium Permeable Plasma Membrane Channels. <i>PLoS ONE</i> , 2016, 11, e0151031.	1.1	6
143	Determination of the Surface Concentration of Crown Ethers in Supported Lipid Membranes by Capacitance Measurements. <i>Langmuir</i> , 1998, 14, 2573-2576.	1.6	5
144	Protein-Binding Microarray Analysis of Tumor Suppressor AP2 Target Gene Specificity. <i>PLoS ONE</i> , 2011, 6, e22895.	1.1	5

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145	Expression, Biochemistry, and Stabilization with Camel Antibodies of Membrane Proteins: Case Study of the Mouse 5-HT <sub>3</sub> Receptor. <i>Methods in Molecular Biology</i> , 2017, 1635, 139-168.	0.4	5
146	Refractive multiple optical tweezers for parallel biochemical analysis in micro-fluidics. , 2007, , .		4
147	Conditions for the existence of a counterflow in superfluid helium. <i>Physical Review B</i> , 1990, 41, 11585-11587.	1.1	3
148	Impedance Spectroscopy of Ion Channels in Tethered Lipid Bilayers. <i>E-Journal of Surface Science and Nanotechnology</i> , 2005, 3, 203-206.	0.1	3
149	Mechanistic Studies on the Stereoselectivity of the Serotonin 5-HT <sub>1A</sub> Receptor. <i>Angewandte Chemie</i> , 2016, 128, 8803-8807.	1.6	2
150	The Molecular Mechanism of P2Y <sub>1</sub> Receptor Activation. <i>Angewandte Chemie</i> , 2016, 128, 10487-10491.	1.6	2
151	Cover Picture: Self-Assembled Microarrays of Attoliter Molecular Vessels ( <i>Angew. Chem. Int. Ed.</i> ) Tj ETQq1 1 0.784314 rgBT /Overlock 1	7.2	1
152	Covalent Labeling of Fusion Proteins with Chemical Probes in Living Cells. <i>Chimia</i> , 2003, 57, 181-183.	0.3	1
153	Individual particle handling in a microfluidic system based on parallel laser trapping. <i>Optics Letters</i> , 2011, 36, 3182.	1.7	1
154	Two-dimensional crystallization of the mouse serotonin 5-HT <sub>3A</sub> receptor. <i>Micron</i> , 2017, 92, 19-24.	1.1	1
155	Cover Picture: Synthesis of Nanoscopic Optical Fibers Using Lipid Membranes as Templates ( <i>Angew.</i> ) Tj ETQq1 1 0.784314 rgBT /Overlock 1	7.2	0
156	Engineered Site-Directed Labeling of Nicotinic Acetylcholine Receptors Using Reactive Epibatidine Derivatives: Appraisal of Epibatidine-Docking Models in Neuronal and Muscular Receptors. <i>Journal of Molecular Neuroscience</i> , 2006, 30, 35-36.	1.1	0
157	Inside Cover: Deamidation and Transamidation of Substance P by Tissue Transglutaminase Revealed by Electron Capture Dissociation Fourier Transform Mass Spectrometry ( <i>Chem. Eur. J.</i> 2/2011). <i>Chemistry - A European Journal</i> , 2011, 17, 398-398.	1.7	0
158	Single-Molecule Microscopy Deciphers the Relation between Trafficking and Signaling of the NK1 Receptor in Living Cells. <i>Biophysical Journal</i> , 2014, 106, 101a.	0.2	0
159	Microfluidics: Microfluidic Single-Cell Analysis with Affinity Beads ( <i>Small</i> 22/2015). <i>Small</i> , 2015, 11, 2606-2606.	5.2	0