

Horst Vogel

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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	A general method for the covalent labeling of fusion proteins with small molecules in vivo. <i>Nature Biotechnology</i> , 2003 , 21, 86-9	44.5	1394
159	Labeling of fusion proteins with synthetic fluorophores in live cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 9955-9	11.5	362
158	Models for the structure of outer-membrane proteins of Escherichia coli derived from raman spectroscopy and prediction methods. <i>Journal of Molecular Biology</i> , 1986 , 190, 191-9	6.5	341
157	Resolution of fluorescence correlation measurements. <i>Biophysical Journal</i> , 1999 , 76, 1619-31	2.9	316
156	X-ray structure of the mouse serotonin 5-HT3 receptor. <i>Nature</i> , 2014 , 512, 276-81	50.4	297
155	A new class of thiolipids for the attachment of lipid bilayers on gold surfaces. <i>Langmuir</i> , 1994 , 10, 197-210	4.5	296
154	Overcoming barriers to membrane protein structure determination. <i>Nature Biotechnology</i> , 2011 , 29, 335-40	44.5	293
153	Specific labeling of cell surface proteins with chemically diverse compounds. <i>Journal of the American Chemical Society</i> , 2004 , 126, 8896-7	16.4	283
152	Reversible site-selective labeling of membrane proteins in live cells. <i>Nature Biotechnology</i> , 2004 , 22, 440-4	44.5	260
151	Micropatterned immobilization of a G protein-coupled receptor and direct detection of G protein activation. <i>Nature Biotechnology</i> , 1999 , 17, 1105-8	44.5	248
150	Directed evolution of O6-alkylguanine-DNA alkyltransferase for efficient labeling of fusion proteins with small molecules in vivo. <i>Chemistry and Biology</i> , 2003 , 10, 313-7		231
149	Protein binding to supported lipid membranes: investigation of the cholera toxin-ganglioside interaction by simultaneous impedance spectroscopy and surface plasmon resonance. <i>Langmuir</i> , 1993 , 9, 1361-1369	4	223
148	The standard deviation in fluorescence correlation spectroscopy. <i>Biophysical Journal</i> , 2001 , 80, 2987-99	2.9	218
147	FRET imaging reveals that functional neurokinin-1 receptors are monomeric and reside in membrane microdomains of live cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 2138-43	11.5	196
146	Multifunctional lipid/quantum dot hybrid nanocontainers for controlled targeting of live cells. <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 5478-83	16.4	194
145	A Chip-Based Biosensor for the Functional Analysis of Single Ion Channels We thank E. Ermantraut, L. Giovangrandi, T. Wohland, A. Brecht, M. Köler, 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
144	Self-assembled microarrays of attoliter molecular vessels. <i>Angewandte Chemie - International Edition</i> , 2003 , 42, 5580-3	16.4	180

143	Activation of G-protein-coupled receptors correlates with the formation of a continuous internal water pathway. <i>Nature Communications</i> , 2014 , 5, 4733	17.4	157
142	Integrated nanoreactor systems: triggering the release and mixing of compounds inside single vesicles. <i>Journal of the American Chemical Society</i> , 2004 , 126, 8594-5	16.4	154
141	Incorporation of melittin into phosphatidylcholine bilayers. Study of binding and conformational changes. <i>FEBS Letters</i> , 1981 , 134, 37-42	3.8	151
140	Advancing Drug Discovery via Artificial Intelligence. <i>Trends in Pharmacological Sciences</i> , 2019 , 40, 592-604	13.2	144
139	An integrated self-assembled nanofluidic system for controlled biological chemistries. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 5544-9	16.4	137
138	Reversible oriented surface immobilization of functional proteins on oxide surfaces. <i>Analytical Chemistry</i> , 1997 , 69, 1979-85	7.8	134
137	Oligomerization of the alpha 1a- and alpha 1b-adrenergic receptor subtypes. Potential implications in receptor internalization. <i>Journal of Biological Chemistry</i> , 2003 , 278, 40239-51	5.4	134
136	Highly Electrically Insulating Tethered Lipid Bilayers for Probing the Function of Ion Channel Proteins. <i>Langmuir</i> , 2003 , 19, 5567-5569	4	127
135	Ion-Channel Gating in Transmembrane Receptor Proteins: Functional Activity in Tethered Lipid Membranes. <i>Angewandte Chemie - International Edition</i> , 1999 , 38, 389-392	16.4	112
134	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, 19991-8	5.4	112
133	Emerging techniques for investigating molecular interactions at lipid membranes. <i>BBA - Biomembranes</i> , 1998 , 1376, 319-38		110
132	Investigating cellular signaling reactions in single attoliter vesicles. <i>Journal of the American Chemical Society</i> , 2005 , 127, 2908-12	16.4	107
131	PyMOL and Inkscape Bridge the Data and the Data Visualization. <i>Structure</i> , 2016 , 24, 2041-2042	5.2	100
130	Immobilization of histidine-tagged proteins on gold surfaces using chelator thioalkanes. <i>Biosensors and Bioelectronics</i> , 1999 , 14, 155-61	11.8	97
129	Fluorescence techniques: shedding light on ligand-receptor interactions. <i>Trends in Pharmacological Sciences</i> , 2000 , 21, 266-73	13.2	91
128	Molecular screening of cancer-derived exosomes by surface plasmon resonance spectroscopy. <i>Analytical and Bioanalytical Chemistry</i> , 2015 , 407, 5425-32	4.4	89
127	Uniformly Flat Gold Surfaces: Imaging the Domain Structure of Organic Monolayers Using Scanning Force Microscopy. <i>Langmuir</i> , 1997 , 13, 2425-2428	4	87
126	Design of Oligonucleotide Arrays at Interfaces. <i>Langmuir</i> , 1999 , 15, 4317-4320	4	87

125	The role of water and sodium ions in the activation of the β opioid receptor. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 10112-5	16.4	86
124	Covalent attachment of functionalized lipid bilayers to planar waveguides for measuring protein binding to biomimetic membranes. <i>Protein Science</i> , 1995 , 4, 2532-44	6.3	86
123	Characterization of the promastigote surface protease of <i>Leishmania</i> as a membrane-bound zinc endopeptidase. <i>Molecular and Biochemical Parasitology</i> , 1989 , 37, 235-45	1.9	86
122	Spontaneous Cdc42 polarization independent of GDI-mediated extraction and actin-based trafficking. <i>PLoS Biology</i> , 2015 , 13, e1002097	9.7	85
121	Antibody binding to a functionalized supported lipid layer: a direct acoustic immunosensor. <i>Analytical Chemistry</i> , 1997 , 69, 4808-13	7.8	85
120	Large-scale production and study of a synthetic G protein-coupled receptor: human olfactory receptor 17-4. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 11925-30	11.5	83
119	Self-assembly of the hydrophobin SC3 proceeds via two structural intermediates. <i>Protein Science</i> , 2002 , 11, 1199-205	6.3	83
118	Highly fluorescent streptavidin-coated CdSe nanoparticles: preparation in water, characterization, and micropatterning. <i>Langmuir</i> , 2004 , 20, 3828-31	4	83
117	Fabrication and functionalization of nanochannels by electron-beam-induced silicon oxide deposition. <i>Langmuir</i> , 2006 , 22, 10711-5	4	80
116	A cytotoxic ruthenium tris(bipyridyl) complex that accumulates at plasma membranes. <i>ChemBioChem</i> , 2009 , 10, 1796-800	3.8	77
115	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	68.1	74
114	Characterization of an extended receptive ligand repertoire of the human olfactory receptor OR17-40 comprising structurally related compounds. <i>Journal of Neurochemistry</i> , 2006 , 97, 537-44	6	73
113	New Binding Sites, New Opportunities for GPCR Drug Discovery. <i>Trends in Biochemical Sciences</i> , 2019 , 44, 312-330	10.3	72
112	Stable self-assembly of a protein engineering scaffold on gold surfaces. <i>Protein Science</i> , 2002 , 11, 1917-25	3	65
111	Polarization-modulated FTIR spectroscopy of lipid/gramicidin monolayers at the air/water interface. <i>Biophysical Journal</i> , 1999 , 76, 1639-47	2.9	65
110	Semisynthesis of fluorescent metabolite sensors on cell surfaces. <i>Journal of the American Chemical Society</i> , 2011 , 133, 16235-42	16.4	62
109	Template-assembled melittin: structural and functional characterization of a designed, synthetic channel-forming protein. <i>Protein Science</i> , 1994 , 3, 1788-805	6.3	62
108	Microfluidic array cytometer based on refractive optical tweezers for parallel trapping, imaging and sorting of individual cells. <i>Lab on A Chip</i> , 2011 , 11, 2432-9	7.2	60

107	Antigen binding properties of purified immunoglobulin A and reconstituted secretory immunoglobulin A antibodies. <i>Journal of Biological Chemistry</i> , 1996 , 271, 16300-9	5.4	60
106	Screening ligands for membrane protein receptors by total internal reflection fluorescence: the 5-HT ₃ serotonin receptor. <i>Analytical Chemistry</i> , 1998 , 70, 1331-8	7.8	59
105	Histidine-Tagged Amphiphiles for the Reversible Formation of Lipid Bilayer Aggregates on Chelator-Functionalized Gold Surfaces. <i>Langmuir</i> , 2000 , 16, 5471-5478	4	54
104	CD8 kinetically promotes ligand binding to the T-cell antigen receptor. <i>Biophysical Journal</i> , 2005 , 89, 2121-33	2.9	53
103	Cell membranes suspended across nanoaperture arrays. <i>Langmuir</i> , 2006 , 22, 22-5	4	51
102	Are the light-harvesting I complexes from <i>Rhodospirillum rubrum</i> arranged around the reaction centre in a square geometry?. <i>Journal of Molecular Biology</i> , 1998 , 282, 819-31	6.5	50
101	Reversible immobilization of peptides: surface modification and in situ detection by attenuated total reflection FTIR spectroscopy. <i>ChemPhysChem</i> , 2003 , 4, 268-75	3.2	49
100	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	22.5	48
99	Noninvasive imaging of 5-HT ₃ receptor trafficking in live cells: from biosynthesis to endocytosis. <i>Journal of Biological Chemistry</i> , 2004 , 279, 53346-52	5.4	47
98	W246(6.48) opens a gate for a continuous intrinsic water pathway during activation of the adenosine A _{2A} receptor. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 556-9	16.4	46
97	CD8+ cytotoxic T lymphocyte activation by soluble major histocompatibility complex-peptide dimers. <i>Journal of Biological Chemistry</i> , 2005 , 280, 23820-8	5.4	46
96	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	4	45
95	A FRET map of membrane anchors suggests distinct microdomains of heterotrimeric G proteins. <i>Journal of Cell Science</i> , 2007 , 120, 2953-62	5.3	45
94	Characterization of a mouse serotonin 5-HT ₃ receptor purified from mammalian cells. <i>Journal of Neurochemistry</i> , 1998 , 70, 824-34	6	44
93	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, 305-13		42
92	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	8.5	41
91	The Molecular Mechanism of P ₂ Y ₁ Receptor Activation. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 10331-5	16.4	41
90	Seamless integration of dose-response screening and flow chemistry: efficient generation of structure-activity relationship data of β -secretase (BACE1) inhibitors. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 1704-8	16.4	39

89	The mechanism of ligand-induced activation or inhibition of β and β opioid receptors. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 7560-3	16.4	39
88	Ligand Binding to G Protein-Coupled Receptors in Tethered Cell Membranes. <i>Langmuir</i> , 2003 , 19, 10925-10929	16.4	39
87	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	16.4	39
86	Sensory attributes of complex tasting divalent salts are mediated by TRPM5 and TRPV1 channels. <i>Journal of Neuroscience</i> , 2009 , 29, 2654-62	6.6	38
85	Repetitive reversible labeling of proteins at polyhistidine sequences for single-molecule imaging in live cells. <i>ChemPhysChem</i> , 2007 , 8, 1221-7	3.2	38
84	Orientation modulation of a synthetic polypeptide in self-assembled monolayers: a TOF-SIMS study. <i>Journal of the American Chemical Society</i> , 2003 , 125, 8911-5	16.4	37
83	Intrinsic biophysical monitors of transducin activation: fluorescence, UV-visible spectroscopy, light scattering, and evanescent field techniques. <i>Methods in Enzymology</i> , 2000 , 315, 471-89	1.7	37
82	Micrometer-Scale Lateral Structuring of Organic Thiolate Layers through Self-Organization. <i>Angewandte Chemie International Edition in English</i> , 1994 , 33, 1274-1276		36
81	Functional immobilisation of the nicotinic acetylcholine receptor in tethered lipid membranes. <i>Biophysical Chemistry</i> , 2000 , 85, 141-52	3.5	35
80	A Gating Mechanism of the Serotonin 5-HT ₃ Receptor. <i>Structure</i> , 2016 , 24, 816-825	5.2	35
79	Exploring a new ligand binding site of G protein-coupled receptors. <i>Chemical Science</i> , 2018 , 9, 6480-6489	9.4	33
78	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, 918-30	6.5	33
77	Reversible oriented immobilization of histidine-tagged proteins on gold surfaces using a chelator thioalkane. <i>Supramolecular Science</i> , 1995 , 2, 155-160		32
76	The Structure of the Mouse Serotonin 5-HT ₃ Receptor in Lipid Vesicles. <i>Structure</i> , 2016 , 24, 165-170	5.2	31
75	Molecular and dimensional profiling of highly purified extracellular vesicles by fluorescence fluctuation spectroscopy. <i>Analytical Chemistry</i> , 2014 , 86, 7229-33	7.8	31
74	Conformational order of the hydrocarbon chains in lipid bilayers. A raman spectroscopic study. <i>Chemistry and Physics of Lipids</i> , 1981 , 29, 83-101	3.7	31
73	Characterization of the ligand-binding site of the serotonin 5-HT ₃ receptor: the role of glutamate residues 97, 224, AND 235. <i>Journal of Biological Chemistry</i> , 2003 , 278, 22709-16	5.4	30
72	Kinetics of the initial steps of G protein-coupled receptor-mediated cellular signaling revealed by single-molecule imaging. <i>ChemPhysChem</i> , 2005 , 6, 1633-40	3.2	30

71	Pumping of mammalian cells with a nozzle-diffuser micropump. <i>Lab on A Chip</i> , 2005 , 5, 1083-8	7.2	28
70	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, 12172-88	5.4	27
69	Formation and Characterization of Lipopeptide Layers at Interfaces for the Molecular Recognition of Antibodies <i>Langmuir</i> , 1996 , 12, 5636-5642	4	26
68	Ligand binding to nicotinic acetylcholine receptor investigated by surface plasmon resonance. <i>Analytical Chemistry</i> , 1999 , 71, 3157-65	7.8	25
67	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, 27723-35	5.4	24
66	Investigating the Function of Ion Channels in Tethered Lipid Membranes by Impedance Spectroscopy. <i>MRS Bulletin</i> , 2005 , 30, 207-210	3.2	24
65	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	8.3	23
64	Mechanistic Studies on the Stereoselectivity of the Serotonin 5-HT1A Receptor. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 8661-5	16.4	23
63	A zeptoliter volume meter for analysis of single protein molecules. <i>Nano Letters</i> , 2012 , 12, 370-5	11.5	22
62	The capsaicin receptor participates in artificial sweetener aversion. <i>Biochemical and Biophysical Research Communications</i> , 2008 , 376, 653-7	3.4	22
61	Fluorescent epibatidine agonists for neuronal and muscle-type nicotinic acetylcholine receptors. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 3505-8	16.4	22
60	Covalent labeling of cell-surface proteins for in-vivo FRET studies. <i>FEBS Letters</i> , 2006 , 580, 1654-8	3.8	22
59	Organization of nanoscale objects via polymer demixing. <i>Colloid and Polymer Science</i> , 2004 , 282, 1274-1278	2.8	22
58	Controlled immobilization of membrane proteins to surfaces for fourier transform infrared investigations. <i>Langmuir</i> , 2004 , 20, 7901-3	4	22
57	Kinetics of the incorporation of cytochrome b5, an integral membrane protein, into unilamellar dimyristoyllecithin liposomes. <i>FEBS Letters</i> , 1978 , 87, 269-72	3.8	21
56	Incorporation and Antibody Recognition of a Lipid-Anchored Membrane Protein in Supported Lipid Layers. <i>Journal of Colloid and Interface Science</i> , 1997 , 194, 53-8	9.3	20
55	Post-translational covalent labeling reveals heterogeneous mobility of individual G protein-coupled receptors in living cells. <i>ChemBioChem</i> , 2006 , 7, 908-11	3.8	20
54	Ligand binding transmits conformational changes across the membrane-spanning region to the intracellular side of the 5-HT3 serotonin receptor. <i>ChemBioChem</i> , 2005 , 6, 2180-5	3.8	20

53	Monitoring mis-acylated tRNA suppression efficiency in mammalian cells via EGFP fluorescence recovery. <i>Nucleic Acids Research</i> , 2002 , 30, e128	20.1	19
52	Membrane nanotubes drawn by optical tweezers transmit electrical signals between mammalian cells over long distances. <i>Lab on A Chip</i> , 2010 , 10, 2235-41	7.2	18
51	Increased mobility of major histocompatibility complex I-peptide complexes decreases the sensitivity of antigen recognition. <i>Journal of Biological Chemistry</i> , 2008 , 283, 24254-63	5.4	18
50	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, 2431-4	3.8	17
49	Structure and dynamics of polypeptides and proteins in lipid membranes. <i>Quarterly Reviews of Biophysics</i> , 1992 , 25, 433-57	7	17
48	Electrostatic spray ionization mass spectrometry imaging. <i>Analytical Chemistry</i> , 2014 , 86, 2033-41	7.8	16
47	Thermal unfolding of a mammalian pentameric ligand-gated ion channel proceeds at consecutive, distinct steps. <i>Journal of Biological Chemistry</i> , 2013 , 288, 5756-69	5.4	16
46	Dual activities of odorants on olfactory and nuclear hormone receptors. <i>Journal of Biological Chemistry</i> , 2009 , 284, 30547-55	5.4	16
45	Micropositioning and microscopic observation of individual picoliter-sized containers within SU-8 microchannels. <i>Microfluidics and Nanofluidics</i> , 2007 , 3, 189-194	2.8	16
44	Functionalisation of gold surfaces via topological templates. <i>Tetrahedron</i> , 1998 , 54, 3725-3734	2.4	15
43	W2466.48 Opens a Gate for a Continuous Intrinsic Water Pathway during Activation of the Adenosine A2A Receptor. <i>Angewandte Chemie</i> , 2015 , 127, 566-569	3.6	13
42	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	6.7	12
41	Distribution plasticity of the human estrogen receptor alpha in live cells: distinct imaging of consecutively expressed receptors. <i>Journal of Molecular Biology</i> , 2007 , 374, 1213-23	6.5	12
40	Reversible sequential-binding probe receptor-ligand interactions in single cells. <i>ChemBioChem</i> , 2005 , 6, 2187-94	3.8	12
39	Enhancing the Signaling of GPCRs via Orthosteric Ions. <i>ACS Central Science</i> , 2020 , 6, 274-282	16.8	11
38	Insertion of T4-lysozyme (T4L) can be a useful tool for studying olfactory-related GPCRs. <i>Molecular BioSystems</i> , 2012 , 8, 1750-9		11
37	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, 486-97	4.8	11
36	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	16.4	11

35	Downscaling the analysis of complex transmembrane signaling cascades to closed attoliter volumes. <i>PLoS ONE</i> , 2013 , 8, e70929	3.7	10
34	Acetylcholine receptor organization in membrane domains in muscle cells: evidence for rapsyn-independent and rapsyn-dependent mechanisms. <i>Journal of Biological Chemistry</i> , 2011 , 286, 363-94	5.4	10
33	Functional asymmetry of transmembrane segments in nicotinic acetylcholine receptors. <i>European Biophysics Journal</i> , 2006 , 35, 685-93	1.9	10
32	Organization of nanoparticles on hard substrates using block copolymer films as templates. <i>Journal of Nanoscience and Nanotechnology</i> , 2006 , 6, 1611-9	1.3	10
31	Electrostatically induced change of the conformational order of charged lipid membranes. <i>Chemistry and Physics of Lipids</i> , 1983 , 32, 91-103	3.7	10
30	Microfluidic Single-Cell Analysis with Affinity Beads. <i>Small</i> , 2015 , 11, 2607-13	11	9
29	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, 431-6	11.8	8
28	Micro- and Nanostructured Devices for the Investigation of Biomolecular Interactions. <i>Chimia</i> , 2006 , 60, 754-760	1.3	7
27	In vitro and in vivo ligand binding to the 5HT(3) serotonin receptor characterised by time-resolved fluorescence spectroscopy. <i>ChemBioChem</i> , 2001 , 2, 205-11	3.8	7
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25	The reaction centre of the photounit of <i>Rhodospirillum rubrum</i> is anchored to the light-harvesting complex with four-fold rotational disorder. <i>Photosynthesis Research</i> , 1998 , 55, 363-368	3.7	6
24	Downregulation of eRF1 by RNA interference increases mis-acylated tRNA suppression efficiency in human cells. <i>Protein Engineering, Design and Selection</i> , 2004 , 17, 821-7	1.9	6
23	Synthesis of nanoscopic optical fibers using lipid membranes as templates. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 4957-60	16.4	6
22	Parameter Recovery in Frequency-Domain Time-Resolved Fluorescence Spectroscopy; Resolution of the Prototropic Forms of 5-Carboxyfluorescein in the Physiological pH Range. <i>Journal of Fluorescence</i> , 2000 , 10, 325-332	2.4	6
21	The Mechanism of Ligand-Induced Activation or Inhibition of μ and κ Opioid Receptors. <i>Angewandte Chemie</i> , 2015 , 127, 7670-7673	3.6	5
20	Protein-binding microarray analysis of tumor suppressor AP2 target gene specificity. <i>PLoS ONE</i> , 2011 , 6, e22895	3.7	5
19	Immunoaffinity screening with capillary electrochromatography. <i>Electrophoresis</i> , 2002 , 23, 1255-62	3.6	5
18	Determination of the Surface Concentration of Crown Ethers in Supported Lipid Membranes by Capacitance Measurements. <i>Langmuir</i> , 1998 , 14, 2573-2576	4	5

17	Expression, Biochemistry, and Stabilization with Camel Antibodies of Membrane Proteins: Case Study of the Mouse 5-HT ₃ Receptor. <i>Methods in Molecular Biology</i> , 2017 , 1635, 139-168	1.4	4
16	NK Cells Respond to Haptens by the Activation of Calcium Permeable Plasma Membrane Channels. <i>PLoS ONE</i> , 2016 , 11, e0151031	3.7	4
15	Nanocapsules with functionalized surfaces and walls. <i>IEEE Transactions on Nanobioscience</i> , 2004 , 3, 3-5	3.4	3
14	Conditions for the existence of a counterflow in superfluid helium. <i>Physical Review B</i> , 1990 , 41, 11585-11587	3.5	3
13	Impedance Spectroscopy of Ion Channels in Tethered Lipid Bilayers. <i>E-Journal of Surface Science and Nanotechnology</i> , 2005 , 3, 203-206	0.7	3
12	Refractive multiple optical tweezers for parallel biochemical analysis in micro-fluidics 2007 ,		2
11	Mechanistic Studies on the Stereoselectivity of the Serotonin 5-HT _{1A} Receptor. <i>Angewandte Chemie</i> , 2016 , 128, 8803-8807	3.6	2
10	Two-dimensional crystallization of the mouse serotonin 5-HT receptor. <i>Micron</i> , 2017 , 92, 19-24	2.3	1
9	Individual particle handling in a microfluidic system based on parallel laser trapping. <i>Optics Letters</i> , 2011 , 36, 3182-4	3	1
8	Cover Picture: Self-Assembled Microarrays of Attoliter Molecular Vessels (Angew. Chem. Int. Ed. 45/2003). <i>Angewandte Chemie - International Edition</i> , 2003 , 42, 5527-5527	16.4	1
7	The role of metal ions in G protein-coupled receptor signalling and drug discovery. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , e1565	7.9	0
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5	Single-Molecule Microscopy Deciphers the Relation between Trafficking and Signaling of the NK1 Receptor in Living Cells. <i>Biophysical Journal</i> , 2014 , 106, 101a	2.9	
4	Microfluidics: Microfluidic Single-Cell Analysis with Affinity Beads (Small 22/2015). <i>Small</i> , 2015 , 11, 2606-2606		
3	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). <i>Chemistry - A European Journal</i> , 2011 , 17, 398-398	4.8	
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