

Manfred Auer

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

89

papers

2,968

citations

28

h-index

53

g-index

96

ext. papers

3,425

ext. citations

7.4

avg, IF

4.46

L-index

#	Paper	IF	Citations
89	Fluorescence microscopy-based quantitation of GLUT4 translocation.. <i>Methods and Applications in Fluorescence</i> , 2022 , 10,	3.1	1
88	MRlogP: Transfer Learning Enables Accurate logP Prediction Using Small Experimental Training Datasets. <i>Processes</i> , 2021 , 9, 2029	2.9	0
87	PyBindingCurve, Simulation, and Curve Fitting to Complex Binding Systems at Equilibrium. <i>Journal of Chemical Information and Modeling</i> , 2021 , 61, 2911-2915	6.1	3
86	RNA pull-down confocal nanoscanning (RP-CONA) detects quercetin as pri-miR-7/HuR interaction inhibitor that decreases β synuclein levels. <i>Nucleic Acids Research</i> , 2021 , 49, 6456-6473	20.1	0
85	A two-step resin based approach to reveal survivin-selective fluorescent probes. <i>RSC Chemical Biology</i> , 2021 , 2, 181-186	3	2
84	SimilarityLab: Molecular Similarity for SAR Exploration and Target Prediction on the Web. <i>Processes</i> , 2021 , 9, 1520	2.9	1
83	Extensive rewiring of the EGFR network in colorectal cancer cells expressing transforming levels of KRAS. <i>Nature Communications</i> , 2020 , 11, 499	17.4	17
82	Quantitative Microdialysis: Experimental Protocol and Software for Small Molecule Protein Affinity Determination and for Exclusion of Compounds with Poor Physicochemical Properties. <i>Methods and Protocols</i> , 2020 , 3,	2.5	2
81	β Synuclein-Confocal Nanoscanning (ASYN-CONA), a Bead-Based Assay for Detecting Early-Stage β Synuclein Aggregation. <i>Analytical Chemistry</i> , 2019 , 91, 5582-5590	7.8	6
80	Asparagine Deprivation Causes a Reversible Inhibition of Human Cytomegalovirus Acute Virus Replication. <i>MBio</i> , 2019 , 10,	7.8	7
79	Oligopeptide Signaling through TbGPR89 Drives Trypanosome Quorum Sensing. <i>Cell</i> , 2019 , 176, 306-317	61.6	60
78	Diclofenac Identified as a Kynurenine 3-Monooxygenase Binder and Inhibitor by Molecular Similarity Techniques. <i>ACS Omega</i> , 2018 , 3, 2564-2568	3.9	6
77	PuLSE: Quality control and quantification of peptide sequences explored by phage display libraries. <i>PLoS ONE</i> , 2018 , 13, e0193332	3.7	5
76	Real-time tracking of complex ubiquitination cascades using a fluorescent confocal on-bead assay. <i>BMC Biology</i> , 2018 , 16, 88	7.3	6
75	Rapid pathway prototyping and engineering using in vitro and in vivo synthetic genome SCRaMBLE-in methods. <i>Nature Communications</i> , 2018 , 9, 1936	17.4	59
74	Complementary Benzophenone Cross-Linking/Mass Spectrometry Photochemistry. <i>Analytical Chemistry</i> , 2017 , 89, 5319-5324	7.8	16
73	Detecting drug-target binding in cells using fluorescence-activated cell sorting coupled with mass spectrometry analysis. <i>Methods and Applications in Fluorescence</i> , 2017 , 6, 015002	3.1	5

72	Facile Synthesis of a Next Generation Safety-Catch Acid-Labile Linker, SCAL-2, Suitable for Solid-Phase Synthesis, On-Support Display and for Post-Synthesis Tagging. <i>ChemistrySelect</i> , 2017 , 2, 6658-6662 ¹	1.8	6662 ¹
71	Genomic Programming of Human Neonatal Dendritic Cells in Congenital Systemic and Cytomegalovirus Infection Reveal Plastic and Robust Immune Pathway Biology Responses. <i>Frontiers in Immunology</i> , 2017 , 8, 1146	8.4	6
70	The ubiquitin-conjugating enzyme CDC34 is essential for cytokinesis in contrast to putative subunits of a SCF complex in <i>Trypanosoma brucei</i> . <i>PLoS Neglected Tropical Diseases</i> , 2017 , 11, e0005626	4.8	6
69	Seamless Insert-Plasmid Assembly at High Efficiency and Low Cost. <i>PLoS ONE</i> , 2016 , 11, e0153158	3.7	28
68	A Wide-Field Fluorescence Microscope Extension for Ultrafast Screening of One-Bead One-Compound Libraries Using a Spectral Image Subtraction Approach. <i>ACS Combinatorial Science</i> , 2016 , 18, 209-19	3.9	10
67	A magnetic bead-based ligand binding assay to facilitate human kynurenine 3-monooxygenase drug discovery. <i>Journal of Biomolecular Screening</i> , 2015 , 20, 292-8		7
66	Proximity-dependent initiation of hybridization chain reaction. <i>Nature Communications</i> , 2015 , 6, 7294	17.4	66
65	UFSRAT: Ultra-fast Shape Recognition with Atom Types--the discovery of novel bioactive small molecular scaffolds for FKBP12 and 11βSD1. <i>PLoS ONE</i> , 2015 , 10, e0116570	3.7	8
64	A general synthetic route to isomerically pure functionalized rhodamine dyes. <i>Methods and Applications in Fluorescence</i> , 2015 , 3, 045002	3.1	14
63	Identification and X-ray co-crystal structure of a small-molecule activator of LFA-1-ICAM-1 binding. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 4322-6	16.4	11
62	E2 enzyme inhibition by stabilization of a low-affinity interface with ubiquitin. <i>Nature Chemical Biology</i> , 2014 , 10, 156-163	11.7	58
61	Novel 1:1 labeling and purification process for C-terminal thioester and single cysteine recombinant proteins using generic peptidic toolbox reagents. <i>Bioconjugate Chemistry</i> , 2014 , 25, 1213-22	6.3	2
60	Identifizierung und Strukturbestimmung eines niedermolekularen Aktivators der LFA-1/ICAM-1-Bindung. <i>Angewandte Chemie</i> , 2014 , 126, 4410-4414	3.6	
59	High-throughput chemical screening for antivirulence developmental phenotypes in <i>Trypanosoma brucei</i> . <i>Eukaryotic Cell</i> , 2014 , 13, 412-26		8
58	A loss of function analysis of host factors influencing Vaccinia virus replication by RNA interference. <i>PLoS ONE</i> , 2014 , 9, e98431	3.7	22
57	CSBB-ConeExclusion, adapting structure based solution virtual screening to libraries on solid support. <i>Journal of Chemical Information and Modeling</i> , 2013 , 53, 3156-62	6.1	1
56	A two-channel detection method for autofluorescence correction and efficient on-bead screening of one-bead one-compound combinatorial libraries using the COPAS fluorescence activated bead sorting system. <i>Methods and Applications in Fluorescence</i> , 2013 , 1, 017001	3.1	11
55	On-bead screens sample narrower affinity ranges of protein-ligand interactions compared to equivalent solution assays. <i>ChemPhysChem</i> , 2012 , 13, 3472-80	3.2	19

54	Towards mimicking short linear peptide motifs: identification of new mixed peptide mimetic ligands for SLAM-Associated Protein (SAP) by confocal on-bead screening. <i>Journal of Chemical Biology</i> , 2012 , 5, 63-79		6
53	Ablation of the regulatory IE1 protein of murine cytomegalovirus alters in vivo pro-inflammatory TNF-alpha production during acute infection. <i>PLoS Pathogens</i> , 2012 , 8, e1002901	7.6	9
52	A direct way of redox sensing. <i>RNA Biology</i> , 2011 , 8, 18-23	4.8	9
51	Identification of a small molecule inhibitor of importin mediated nuclear import by confocal on-bead screening of tagged one-bead one-compound libraries. <i>ACS Chemical Biology</i> , 2010 , 5, 967-79	4.9	42
50	Analysis of protein-small molecule interactions by microscale equilibrium dialysis and its application as a secondary confirmation method for on-bead screening. <i>ACS Combinatorial Science</i> , 2010 , 12, 647-54		10
49	The x-ray crystal structure of the first RNA recognition motif and site-directed mutagenesis suggest a possible HuR redox sensing mechanism. <i>Journal of Molecular Biology</i> , 2010 , 397, 1231-44	6.5	37
48	Signaling of IL-4R, a Typical Class I Cytokine Receptor 2010 , 323-328		
47	A highly potent and cellularly active beta-peptidic inhibitor of the p53/hDM2 interaction. <i>ChemBioChem</i> , 2009 , 10, 994-8	3.8	20
46	Single bead labeling method for combining confocal fluorescence on-bead screening and solution validation of tagged one-bead one-compound libraries. <i>Chemistry and Biology</i> , 2009 , 16, 724-35		56
45	Confocal nanoscanning, bead picking (CONA): PicoScreen microscopes for automated and quantitative screening of one-bead one-compound libraries. <i>ACS Combinatorial Science</i> , 2009 , 11, 886-94		31
44	Terminal adenosyl transferase activity of posttranscriptional regulator HuR revealed by confocal on-bead screening. <i>Journal of Molecular Biology</i> , 2009 , 386, 435-50	6.5	31
43	Covalent fluorescence labeling of His-tagged proteins on the surface of living cells. <i>ChemBioChem</i> , 2008 , 9, 1391-5	3.8	27
42	Single-bead, single-molecule, single-cell fluorescence: technologies for drug screening and target validation. <i>Annals of the New York Academy of Sciences</i> , 2008 , 1130, 1-11	6.5	27
41	Identification and mechanistic characterization of low-molecular-weight inhibitors for HuR. <i>Nature Chemical Biology</i> , 2007 , 3, 508-15	11.7	145
40	Beyond dimerization: a membrane-dependent activation model for interleukin-4 receptor-mediated signalling. <i>Journal of Molecular Biology</i> , 2007 , 366, 1365-73	6.5	20
39	Structural and biophysical characterization of the EphB4*ephrinB2 protein-protein interaction and receptor specificity. <i>Journal of Biological Chemistry</i> , 2006 , 281, 28185-92	5.4	71
38	The effect of RNA secondary structures on RNA-ligand binding and the modifier RNA mechanism: a quantitative model. <i>Gene</i> , 2005 , 345, 3-12	3.8	44
37	Multi-photon excitation of intrinsic protein fluorescence and its application to pharmaceutical drug screening. <i>Assay and Drug Development Technologies</i> , 2005 , 3, 155-67	2.1	6

36	mRNA openers and closers: modulating AU-rich element-controlled mRNA stability by a molecular switch in mRNA secondary structure. <i>ChemBioChem</i> , 2004 , 5, 1432-47	3.8	99
35	The chemical hunt for the identification of drugable targets. <i>Current Opinion in Chemical Biology</i> , 2004 , 8, 424-31	9.7	27
34	Confocal fluorescence detection expanded to UV excitation: the first continuous fluorimetric assay of human steroid sulfatase in nanoliter volume. <i>Assay and Drug Development Technologies</i> , 2004 , 2, 21-30	2.1	10
33	Fluorescent Fingerprinting of Molecular Recognition Landscapes J.J.L. thanks Wolfgang Rettig (Humboldt University) for his generosity during the preparation of this manuscript and the Uebbing Foundation for support. M.A. thanks Jan E. de Vries for continuous support and encouragement.. <i>Angewandte Chemie - International Edition</i> , 2001 , 40, 1889-1892	16.4	3
32	HTS: understanding the physiology of life. <i>Drug Discovery Today</i> , 2001 , 6, 935-936	8.8	6
31	Monomeric state and ligand binding of recombinant GABA transporter from Escherichia coli. <i>FEBS Letters</i> , 2001 , 494, 165-9	3.8	18
30	New fluorogenic substrate for the first continuous steroid sulfatase assay. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2000 , 10, 967-9	2.9	16
29	Three-dimensional electron cryo-microscopy as a powerful structural tool in molecular medicine. <i>Journal of Molecular Medicine</i> , 2000 , 78, 191-202	5.5	15
28	Enzyme inhibition assays using fluorescence correlation spectroscopy: a new algorithm for the derivation of kcat/KM and Ki values at substrate concentrations much lower than the Michaelis constant. <i>Biochemistry</i> , 2000 , 39, 13261-8	3.2	31
27	Temperature inducible beta-sheet structure in the transactivation domains of retroviral regulatory proteins of the Rev family. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 1999 , 55A, 2729-43	4.4	5
26	Comparison of H ⁺ -ATPase and Ca ²⁺ -ATPase suggests that a large conformational change initiates P-type ion pump reaction cycles. <i>Current Biology</i> , 1999 , 9, 672-9	6.3	39
25	Surface crystallisation of the plasma membrane H ⁺ -ATPase on a carbon support film for electron crystallography. <i>Journal of Molecular Biology</i> , 1999 , 287, 961-8	6.5	37
24	Circular dichroism analysis of insect cell expressed herpes simplex virus type I single-stranded DNA-binding protein ICP8. <i>Protein Expression and Purification</i> , 1999 , 16, 40-6	2	3
23	Three-dimensional map of the plasma membrane H ⁺ -ATPase in the open conformation. <i>Nature</i> , 1998 , 392, 840-3	50.4	188
22	Fluorescence correlation spectroscopy: lead discovery by miniaturized HTS. <i>Drug Discovery Today</i> , 1998 , 3, 457-465	8.8	98
21	Structure of the P-type ATPases. <i>Current Opinion in Structural Biology</i> , 1998 , 8, 510-6	8.1	40
20	Structural dynamics of HIV-1 Rev and its complexes with RRE and 5S RNA. <i>Biochemistry</i> , 1998 , 37, 1800-9	3.2	19
19	High level expression and structural characterisation of herpes simplex virus type I transcriptional activator VP16 (alpha-trans inducing factor). <i>Biochemical and Biophysical Research Communications</i> , 1998 , 251, 235-8	3.4	2

18	Immunological and biological properties of Bet v 4, a novel birch pollen allergen with two EF-hand calcium-binding domains. <i>Journal of Biological Chemistry</i> , 1997 , 272, 28630-7	5.4	97
17	Effects of phosphatidylinositol-3-kinase inhibitors on degranulation and gene induction in allergically triggered mouse mast cells. <i>International Archives of Allergy and Immunology</i> , 1997 , 112, 392-397	3.7	26
16	Transcytosis and surface presentation of IL-8 by venular endothelial cells. <i>Cell</i> , 1997 , 91, 385-95	56.2	671
15	Intensity-independent fluorometric detection of cellular nitric oxide release. <i>FEBS Letters</i> , 1997 , 408, 319-23	3.8	12
14	Rapid Combinatorial Synthesis of Aminoglycoside Antibiotic Mimetics: Use of a Polyethylene Glycol-Linked Amine and a Neamine-Derived Aldehyde in Multiple Component Condensation as a Strategy for the Discovery of New Inhibitors of the HIV RNA Rev Responsive Element. <i>Journal of the American Chemical Society</i> , 1996 , 118, 10150-10155	16.4	168
13	Evaluation of the metal ion requirement of the human deoxyhypusine hydroxylase from HeLa cells using a novel enzyme assay. <i>FEBS Letters</i> , 1996 , 380, 209-14	3.8	18
12	Evidence for an alpha helical T cell epitope in the C-terminus of the main birch pollen allergen Bet V 1. <i>Biochemical and Biophysical Research Communications</i> , 1996 , 223, 187-92	3.4	6
11	Structure and activity of a chimeric interleukin-8-melanoma-growth-stimulatory-activity protein. <i>FEBS Journal</i> , 1996 , 235, 26-35		6
10	The polypeptide chain of eukaryotic initiation factor 5A occurs in two distinct conformations in the absence of the hypusine modification. <i>Biochemistry</i> , 1995 , 34, 14703-11	3.2	6
9	Isolation and structural characterization of different isoforms of the hypusine-containing protein eIF-5A from HeLa cells. <i>Biochemistry</i> , 1995 , 34, 14693-702	3.2	42
8	The amino terminal domain of HIV-1 Rev is required for discrimination of the RRE from nonspecific RNA. <i>Journal of Molecular Biology</i> , 1995 , 253, 243-58	6.5	30
7	Purification, crystallization and preliminary X-ray diffraction analysis of recombinant human neutrophil-activating peptide 2 (rhNAP-2). <i>FEBS Letters</i> , 1994 , 347, 300-3	3.8	4
6	Helix-loop-helix motif in HIV-1 Rev. <i>Biochemistry</i> , 1994 , 33, 2988-96	3.2	46
5	Perturbation of the carboxy terminus of HIV-1 Rev affects multimerization on the Rev responsive element. <i>Biochemistry</i> , 1993 , 32, 8945-54	3.2	33
4	Biochemical characterization of binding of multiple HIV-1 Rev monomeric proteins to the Rev responsive element. <i>Biochemistry</i> , 1993 , 32, 10497-505	3.2	61
3	Elucidation of structure function relationships in the IL-8 family by X-ray crystallography. <i>Advances in Experimental Medicine and Biology</i> , 1993 , 351, 171-82	3.6	1
2	Crystallization and preliminary X-ray crystallographic study of interleukin-8. <i>FEBS Letters</i> , 1990 , 265, 30-33	3.8	5
1	Nucleotide and AP5A complexes of porcine adenylate kinase: A 1H and 19F NMR study. <i>Biochemistry</i> , 1989 , 28, 4318-25	3.2	14

