

Manfred Auer

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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	Transcytosis and surface presentation of IL-8 by venular endothelial cells. <i>Cell</i> , 1997 , 91, 385-95	56.2	671
88	Three-dimensional map of the plasma membrane H ⁺ -ATPase in the open conformation. <i>Nature</i> , 1998 , 392, 840-3	50.4	188
87	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 Medicinal Chemistry</i> , 2004 , 47, 10150-10155	16.4	168
86	Identification and mechanistic characterization of low-molecular-weight inhibitors for HuR. <i>Nature Chemical Biology</i> , 2007 , 3, 508-15	11.7	145
85	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
84	Fluorescence correlation spectroscopy: lead discovery by miniaturized HTS. <i>Drug Discovery Today</i> , 1998 , 3, 457-465	8.8	98
83	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
82	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
81	Proximity-dependent initiation of hybridization chain reaction. <i>Nature Communications</i> , 2015 , 6, 7294	17.4	66
80	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
79	Oligopeptide Signaling through TbGPR89 Drives Trypanosome Quorum Sensing. <i>Cell</i> , 2019 , 176, 306-317	61.6	60
78	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
77	E2 enzyme inhibition by stabilization of a low-affinity interface with ubiquitin. <i>Nature Chemical Biology</i> , 2014 , 10, 156-163	11.7	58
76	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
75	Helix-loop-helix motif in HIV-1 Rev. <i>Biochemistry</i> , 1994 , 33, 2988-96	3.2	46
74	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
73	Identification of a small molecule inhibitor of importin β -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

72	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
71	Structure of the P-type ATPases. <i>Current Opinion in Structural Biology</i> , 1998 , 8, 510-6	8.1	40
70	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
69	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
68	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
67	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
66	Confocal nanoscanning, bead picking (CONA): PickoScreen microscopes for automated and quantitative screening of one-bead one-compound libraries. <i>ACS Combinatorial Science</i> , 2009 , 11, 886-94		31
65	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
64	Enzyme inhibition assays using fluorescence correlation spectroscopy: a new algorithm for the derivation of k _{cat} /K _M and K _i values at substrate concentrations much lower than the Michaelis constant. <i>Biochemistry</i> , 2000 , 39, 13261-8	3.2	31
63	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
62	Seamless Insert-Plasmid Assembly at High Efficiency and Low Cost. <i>PLoS ONE</i> , 2016 , 11, e0153158	3.7	28
61	Covalent fluorescence labeling of His-tagged proteins on the surface of living cells. <i>ChemBioChem</i> , 2008 , 9, 1391-5	3.8	27
60	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
59	The chemical hunt for the identification of drugable targets. <i>Current Opinion in Chemical Biology</i> , 2004 , 8, 424-31	9.7	27
58	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, 392-9	3.7	26
57	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
56	A highly potent and cellularly active beta-peptidic inhibitor of the p53/hDM2 interaction. <i>ChemBioChem</i> , 2009 , 10, 994-8	3.8	20
55	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

54	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
53	Structural dynamics of HIV-1 Rev and its complexes with RRE and 5S RNA. <i>Biochemistry</i> , 1998 , 37, 1800-9	3.2	19
52	Monomeric state and ligand binding of recombinant GABA transporter from Escherichia coli. <i>FEBS Letters</i> , 2001 , 494, 165-9	3.8	18
51	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
50	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
49	Complementary Benzophenone Cross-Linking/Mass Spectrometry Photochemistry. <i>Analytical Chemistry</i> , 2017 , 89, 5319-5324	7.8	16
48	New fluorogenic substrate for the first continuous steroid sulfatase assay. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2000 , 10, 967-9	2.9	16
47	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
46	A general synthetic route to isomerically pure functionalized rhodamine dyes. <i>Methods and Applications in Fluorescence</i> , 2015 , 3, 045002	3.1	14
45	Nucleotide and AP5A complexes of porcine adenylate kinase: A 1H and 19F NMR study. <i>Biochemistry</i> , 1989 , 28, 4318-25	3.2	14
44	Intensity-independent fluorometric detection of cellular nitric oxide release. <i>FEBS Letters</i> , 1997 , 408, 319-23	3.8	12
43	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
42	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
41	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
40	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
39	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
38	A direct way of redox sensing. <i>RNA Biology</i> , 2011 , 8, 18-23	4.8	9
37	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

36	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
35	High-throughput chemical screening for antivirulence developmental phenotypes in <i>Trypanosoma brucei</i> . <i>Eukaryotic Cell</i> , 2014 , 13, 412-26		8
34	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
33	Asparagine Deprivation Causes a Reversible Inhibition of Human Cytomegalovirus Acute Virus Replication. <i>MBio</i> , 2019 , 10,	7.8	7
32	βSynuclein-Confocal Nanoscanning (ASYN-CONA), a Bead-Based Assay for Detecting Early-Stage βSynuclein Aggregation. <i>Analytical Chemistry</i> , 2019 , 91, 5582-5590	7.8	6
31	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
30	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
29	Towards mimicking short linear peptide motifs: identification of new mixed β-peptidomimetic ligands for SLAM-Associated Protein (SAP) by confocal on-bead screening. <i>Journal of Chemical Biology</i> , 2012 , 5, 63-79		6
28	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
27	HTS: understanding the physiology of life. <i>Drug Discovery Today</i> , 2001 , 6, 935-936	8.8	6
26	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
25	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
24	Structure and activity of a chimeric interleukin-8-melanoma-growth-stimulatory-activity protein. <i>FEBS Journal</i> , 1996 , 235, 26-35		6
23	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
22	Real-time tracking of complex ubiquitination cascades using a fluorescent confocal on-bead assay. <i>BMC Biology</i> , 2018 , 16, 88	7.3	6
21	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
20	PuLSE: Quality control and quantification of peptide sequences explored by phage display libraries. <i>PLoS ONE</i> , 2018 , 13, e0193332	3.7	5
19	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

18	Crystallization and preliminary X-ray crystallographic study of interleukin-8. <i>FEBS Letters</i> , 1990 , 265, 30-3,8	5
17	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
16	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
15	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
14	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
13	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
12	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
11	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
10	A two-step resin based approach to reveal survivin-selective fluorescent probes. <i>RSC Chemical Biology</i> , 2021 , 2, 181-186	3 2
9	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	1.8 2
8	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
7	Fluorescence microscopy-based quantitation of GLUT4 translocation.. <i>Methods and Applications in Fluorescence</i> , 2022 , 10,	3.1 1
6	SimilarityLab: Molecular Similarity for SAR Exploration and Target Prediction on the Web. <i>Processes</i> , 2021 , 9, 1520	2.9 1
5	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
4	MRlogP: Transfer Learning Enables Accurate logP Prediction Using Small Experimental Training Datasets. <i>Processes</i> , 2021 , 9, 2029	2.9 0
3	RNA pull-down confocal nanoscanning (RP-CONA) detects quercetin as pri-miR-7/HuR interaction inhibitor that decreases E5ynuclein levels. <i>Nucleic Acids Research</i> , 2021 , 49, 6456-6473	20.1 0
2	Identifizierung und Strukturbestimmung eines niedermolekularen Aktivators der LFA-1/ICAM-1-Bindung. <i>Angewandte Chemie</i> , 2014 , 126, 4410-4414	3.6
1	Signaling of IL-4R, a Typical Class I Cytokine Receptor 2010 , 323-328	

