

# Manfred Auer

## List of Publications by Year in descending order

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90  
papers

3,706  
citations

159573

30  
h-index

138468

58  
g-index

96  
all docs

96  
docs citations

96  
times ranked

4309  
citing authors

#	ARTICLE	IF	CITATIONS
1	Transcytosis and Surface Presentation of IL-8 by Venular Endothelial Cells. <i>Cell</i> , 1997, 91, 385-395.	28.9	732
2	Fluorescence correlation spectroscopy: lead discovery by miniaturized HTS. <i>Drug Discovery Today</i> , 1998, 3, 457-465.	6.4	244
3	Three-dimensional map of the plasma membrane H <sup>+</sup> -ATPase in the open conformation. <i>Nature</i> , 1998, 392, 840-843.	27.8	203
4	Identification and mechanistic characterization of low-molecular-weight inhibitors for HuR. <i>Nature Chemical Biology</i> , 2007, 3, 508-515.	8.0	187
5	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.	13.7	184
6	Oligopeptide Signaling through TbGPR89 Drives Trypanosome Quorum Sensing. <i>Cell</i> , 2019, 176, 306-317.e16.	28.9	116
7	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, 28630-28637.	3.4	115
8	mRNA Openers and Closers: Modulating AU-Rich Element-Controlled mRNA Stability by a Molecular Switch in mRNA Secondary Structure. <i>ChemBioChem</i> , 2004, 5, 1432-1447.	2.6	112
9	Rapid pathway prototyping and engineering using in vitro and in vivo synthetic genome SCRaMble-in methods. <i>Nature Communications</i> , 2018, 9, 1936.	12.8	101
10	Proximity-dependent initiation of hybridization chain reaction. <i>Nature Communications</i> , 2015, 6, 7294.	12.8	88
11	Structural and Biophysical Characterization of the EphB4-EphrinB2 Protein-Protein Interaction and Receptor Specificity. <i>Journal of Biological Chemistry</i> , 2006, 281, 28185-28192.	3.4	87
12	E2 enzyme inhibition by stabilization of a low-affinity interface with ubiquitin. <i>Nature Chemical Biology</i> , 2014, 10, 156-163.	8.0	81
13	Biochemical characterization of binding of multiple HIV-1 Rev monomeric proteins to the Rev responsive element. <i>Biochemistry</i> , 1993, 32, 10497-10505.	2.5	73
14	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, 724-735.	6.0	59
15	Helix-Loop-Helix Motif in HIV-1 Rev. <i>Biochemistry</i> , 1994, 33, 2988-2996.	2.5	53
16	Identification of a Small Molecule Inhibitor of Importin $\beta$ Mediated Nuclear Import by Confocal On-Bead Screening of Tagged One-Bead One-Compound Libraries. <i>ACS Chemical Biology</i> , 2010, 5, 967-979.	3.4	50
17	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.	2.2	49
18	Isolation and Structural Characterization of Different Isoforms of the Hypusine-Containing Protein eIF-5A from HeLa Cells. <i>Biochemistry</i> , 1995, 34, 14693-14702.	2.5	46

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19	Comparison of H <sup>+</sup> -ATPase and Ca <sup>2+</sup> -ATPase suggests that a large conformational change initiates P-type ion pump reaction cycles. <i>Current Biology</i> , 1999, 9, 672-679.	3.9	44
20	Structure of the P-type ATPases. <i>Current Opinion in Structural Biology</i> , 1998, 8, 510-516.	5.7	43
21	Perturbation of the carboxy terminus of HIV-1 Rev affects multimerization on the Rev responsive element. <i>Biochemistry</i> , 1993, 32, 8945-8954.	2.5	42
22	Extensive rewiring of the EGFR network in colorectal cancer cells expressing transforming levels of KRASG13D. <i>Nature Communications</i> , 2020, 11, 499.	12.8	42
23	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, 1231-1244.	4.2	40
24	Seamless Insert-Plasmid Assembly at High Efficiency and Low Cost. <i>PLoS ONE</i> , 2016, 11, e0153158.	2.5	40
25	Surface crystallisation of the plasma membrane H <sup>+</sup> -ATPase on a carbon support film for electron crystallography. <i>Journal of Molecular Biology</i> , 1999, 287, 961-968.	4.2	39
26	Terminal Adenosyl Transferase Activity of Posttranscriptional Regulator HuR Revealed by Confocal On-Bead Screening. <i>Journal of Molecular Biology</i> , 2009, 386, 435-450.	4.2	38
27	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, 13261-13268.	2.5	34
28	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, 886-894.	3.3	34
29	A Loss of Function Analysis of Host Factors Influencing Vaccinia virus Replication by RNA Interference. <i>PLoS ONE</i> , 2014, 9, e98431.	2.5	34
30	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, 243-258.	4.2	33
31	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, 392-399.	2.1	31
32	Single-Bead, Single-Molecule, Single-Cell Fluorescence. <i>Annals of the New York Academy of Sciences</i> , 2008, 1130, 1-11.	3.8	31
33	The chemical hunt for the identification of drugable targets. <i>Current Opinion in Chemical Biology</i> , 2004, 8, 424-431.	6.1	28
34	Covalent Fluorescence Labeling of His-Tagged Proteins on the Surface of Living Cells. <i>ChemBioChem</i> , 2008, 9, 1391-1395.	2.6	28
35	A general synthetic route to isomerically pure functionalized rhodamine dyes. <i>Methods and Applications in Fluorescence</i> , 2015, 3, 045002.	2.3	23
36	Beyond Dimerization: A Membrane-dependent Activation Model for Interleukin-4 Receptor-mediated Signalling. <i>Journal of Molecular Biology</i> , 2007, 366, 1365-1373.	4.2	22

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37	Complementary Benzophenone Cross-Linking/Mass Spectrometry Photochemistry. <i>Analytical Chemistry</i> , 2017, 89, 5319-5324.	6.5	22
38	Monomeric state and ligand binding of recombinant GABA transporter from <i>Escherichia coli</i> . <i>FEBS Letters</i> , 2001, 494, 165-169.	2.8	21
39	On-Bead Screens Sample Narrower Affinity Ranges of Protein-Ligand Interactions Compared to Equivalent Solution Assays. <i>ChemPhysChem</i> , 2012, 13, 3472-3480.	2.1	21
40	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, 209-214.	2.8	20
41	Structural Dynamics of HIV-1 Rev and Its Complexes with RRE and 5S RNA. <i>Biochemistry</i> , 1998, 37, 1800-1809.	2.5	20
42	A Highly Potent and Cellularly Active Peptidic Inhibitor of the p53/hDM2 Interaction. <i>ChemBioChem</i> , 2009, 10, 994-998.	2.6	20
43	New fluorogenic substrate for the first continuous steroid sulfatase assay. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2000, 10, 967-969.	2.2	18
44	Three-dimensional electron cryo-microscopy as a powerful structural tool in molecular medicine. <i>Journal of Molecular Medicine</i> , 2000, 78, 191-202.	3.9	17
45	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.	2.3	17
46	Nucleotide and AP5A complexes of porcine adenylate kinase: a proton and fluorine-19 NMR study. <i>Biochemistry</i> , 1989, 28, 4318-4325.	2.5	16
47	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.	3.0	16
48	Intensity-independent fluorometric detection of cellular nitric oxide release. <i>FEBS Letters</i> , 1997, 408, 319-323.	2.8	15
49	UFSRAT: Ultra-Fast Shape Recognition with Atom Types - The Discovery of Novel Bioactive Small Molecular Scaffolds for FKBP12 and 11 $\beta$ HSD1. <i>PLoS ONE</i> , 2015, 10, e0116570.	2.5	15
50	Identification and X-ray Crystal Structure of a Small Molecule Activator of LFA-1/ICAM-1 Binding. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 4322-4326.	13.8	14
51	$\beta$ -Synuclein - Confocal Nanoscanning (ASYN-CONA), a Bead-Based Assay for Detecting Early-Stage $\beta$ -Synuclein Aggregation. <i>Analytical Chemistry</i> , 2019, 91, 5582-5590.	6.5	13
52	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.	1.2	12
53	A direct way of redox sensing. <i>RNA Biology</i> , 2011, 8, 18-23.	3.1	12
54	Asparagine Deprivation Causes a Reversible Inhibition of Human Cytomegalovirus Acute Virus Replication. <i>MBio</i> , 2019, 10, .	4.1	12

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55	Chemical Interrogation of Nuclear Size Identifies Compounds with Cancer Cell Line-Specific Effects on Migration and Invasion. <i>ACS Chemical Biology</i> , 2022, 17, 680-700.	3.4	12
56	Diclofenac Identified as a Kynurenine 3-Monooxygenase Binder and Inhibitor by Molecular Similarity Techniques. <i>ACS Omega</i> , 2018, 3, 2564-2568.	3.5	11
57	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, 647-654.	3.3	10
58	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, 209-219.	3.8	10
59	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.	4.7	9
60	High-Throughput Chemical Screening for Antivirulence Developmental Phenotypes in <i>Trypanosoma brucei</i> . <i>Eukaryotic Cell</i> , 2014, 13, 412-426.	3.4	9
61	A Magnetic Bead-Based Ligand Binding Assay to Facilitate Human Kynurenine 3-Monooxygenase Drug Discovery. <i>Journal of Biomolecular Screening</i> , 2015, 20, 292-298.	2.6	9
62	Genomic Programming of Human Neonatal Dendritic Cells in Congenital Systemic and In Vitro Cytomegalovirus Infection Reveal Plastic and Robust Immune Pathway Biology Responses. <i>Frontiers in Immunology</i> , 2017, 8, 1146.	4.8	9
63	Real-time tracking of complex ubiquitination cascades using a fluorescent confocal on-bead assay. <i>BMC Biology</i> , 2018, 16, 88.	3.8	9
64	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, 14703-14711.	2.5	7
65	Multi-Photon Excitation of Intrinsic Protein Fluorescence and Its Application to Pharmaceutical Drug Screening. <i>Assay and Drug Development Technologies</i> , 2005, 3, 155-167.	1.2	7
66	Detecting drug-target binding in cells using fluorescence-activated cell sorting coupled with mass spectrometry analysis. <i>Methods and Applications in Fluorescence</i> , 2018, 6, 015002.	2.3	7
67	PyBindingCurve, Simulation, and Curve Fitting to Complex Binding Systems at Equilibrium. <i>Journal of Chemical Information and Modeling</i> , 2021, 61, 2911-2915.	5.4	7
68	RNA pull-down confocal nanoscanning (RP-CONA) detects quercetin as pri-miR-7/HuR interaction inhibitor that decreases $\beta$ -synuclein levels. <i>Nucleic Acids Research</i> , 2021, 49, 6456-6473.	14.5	7
69	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, 187-192.	2.1	6
70	Structure and Activity of a Chimeric Interleukin-8-Melanoma-Growth-Stimulatory-Activity Protein. <i>FEBS Journal</i> , 1996, 235, 26-35.	0.2	6
71	HTS: understanding the physiology of life. <i>Drug Discovery Today</i> , 2001, 6, 935-936.	6.4	6
72	Towards mimicking short linear peptide motifs: identification of new mixed $\alpha$ , $\beta$ -peptidomimetic ligands for SLAM-Associated Protein (SAP) by confocal on-bead screening. <i>Journal of Chemical Biology</i> , 2012, 5, 63-79.	2.2	6

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73	PuLSE: Quality control and quantification of peptide sequences explored by phage display libraries. PLoS ONE, 2018, 13, e0193332.	2.5	6
74	Crystallization and preliminary X-ray crystallographic study of interleukin-8. FEBS Letters, 1990, 265, 30-32.	2.8	5
75	Temperature inducible $\beta$ -sheet structure in the transactivation domains of retroviral regulatory proteins of the Rev family. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 1999, 55, 2729-2743.	3.9	5
76	Purification, crystallization and preliminary X-ray diffraction analysis of recombinant human neutrophil-activating peptide 2 (rhNAP-2). FEBS Letters, 1994, 347, 300-303.	2.8	4
77	Circular Dichroism Analysis of Insect Cell Expressed Herpes Simplex Virus Type I Single-Stranded DNA-Binding Protein ICP8. Protein Expression and Purification, 1999, 16, 40-46.	1.3	4
78	MRlogP: Transfer Learning Enables Accurate logP Prediction Using Small Experimental Training Datasets. Processes, 2021, 9, 2029.	2.8	4
79	Fluorescence microscopy-based quantitation of GLUT4 translocation. Methods and Applications in Fluorescence, 2022, 10, 022001.	2.3	4
80	High Level Expression and Structural Characterisation of Herpes Simplex Virus Type I Transcriptional Activator VP16 ( $\pm$ -transInducing Factor). Biochemical and Biophysical Research Communications, 1998, 251, 235-238.	2.1	3
81	Fluorescent Fingerprinting of Molecular Recognition Landscapes. Angewandte Chemie - International Edition, 2001, 40, 1889-1892.	13.8	3
82	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. ChemistrySelect, 2017, 2, 6658-6662.	1.5	3
83	Quantitative Microdialysis: Experimental Protocol and Software for Small Molecule Protein Affinity Determination and for Exclusion of Compounds with Poor Physicochemical Properties. Methods and Protocols, 2020, 3, 55.	2.0	3
84	A two-step resin based approach to reveal survivin-selective fluorescent probes. RSC Chemical Biology, 2021, 2, 181-186.	4.1	3
85	Novel 1:1 Labeling and Purification Process for C-Terminal Thioester and Single Cysteine Recombinant Proteins Using Generic Peptidic Toolbox Reagents. Bioconjugate Chemistry, 2014, 25, 1213-1222.	3.6	2
86	CSBB-ConeExclusion, Adapting Structure Based Solution Virtual Screening to Libraries on Solid Support. Journal of Chemical Information and Modeling, 2013, 53, 3156-3162.	5.4	1
87	SimilarityLab: Molecular Similarity for SAR Exploration and Target Prediction on the Web. Processes, 2021, 9, 1520.	2.8	1
88	Elucidation of Structure Function Relationships in the IL-8 Family by X-ray Crystallography. Advances in Experimental Medicine and Biology, 1993, 351, 171-182.	1.6	1
89	Signaling of IL-4R, a Typical Class I Cytokine Receptor. , 2010, , 323-328.		0
90	CLAffinity: A Software Tool for Identification of Optimum Ligand Affinity for Competition-Based Primary Screens. Journal of Chemical Information and Modeling, 2022, , .	5.4	0