

# Rudolf Volkmer

## List of Publications by Year in descending order

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86  
papers

4,608  
citations

136950

32  
h-index

106344

65  
g-index

92  
all docs

92  
docs citations

92  
times ranked

10387  
citing authors

#	ARTICLE	IF	CITATIONS
1	Fix-Wavelength Multi-Analyte Detection with Serial SOI Ring Resonators. <i>Engineering Proceedings</i> , 2021, 6, .	0.4	0
2	Tolerogenic Immunomodulation by PEGylated Antigenic Peptides. <i>Frontiers in Immunology</i> , 2020, 11, 529035.	4.8	7
3	Benchtop holdup assay for quantitative affinity-based analysis of sequence determinants of protein-motif interactions. <i>Analytical Biochemistry</i> , 2020, 603, 113772.	2.4	7
4	Designed nanomolar small-molecule inhibitors of Ena/VASP EVH1 interaction impair invasion and extravasation of breast cancer cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 29684-29690.	7.1	21
5	The N-terminal amphipathic helix of Pex11p self-interacts to induce membrane remodelling during peroxisome fission. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2018, 1860, 1292-1300.	2.6	28
6	Structural Basis of Formation of the Microtubule Minus-End-Regulating CAMSAP-Katanin Complex. <i>Structure</i> , 2018, 26, 375-382.e4.	3.3	47
7	Bio-Orthogonal Chemistry and Reloadable Biomaterial Enable Local Activation of Antibiotic Prodrugs and Enhance Treatments against <i>Staphylococcus aureus</i> Infections. <i>ACS Central Science</i> , 2018, 4, 1624-1632.	11.3	64
8	Synthesis and Characterization of a New Bifunctionalized, Fluorescent, and Amphiphilic Molecule for Recruiting SH $\alpha$ -Containing Molecules to Membranes. <i>ChemBioChem</i> , 2018, 19, 1643-1647.	2.6	6
9	An Antimicrobial Peptide Induces FIG1-Dependent Cell Death During Cell Cycle Arrest in Yeast. <i>Frontiers in Microbiology</i> , 2018, 9, 1240.	3.5	4
10	Positional scanning library applied to the human eosinophil cationic protein/RNase3 N-terminus reveals novel and potent anti-biofilm peptides. <i>European Journal of Medicinal Chemistry</i> , 2018, 152, 590-599.	5.5	21
11	Short Linear Sequence Motif LxxPTPh Targets Diverse Proteins to Growing Microtubule Ends. <i>Structure</i> , 2017, 25, 924-932.e4.	3.3	37
12	The cochaperone BAG3 coordinates protein synthesis and autophagy under mechanical strain through spatial regulation of mTORC1. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2017, 1864, 62-75.	4.1	49
13	Control of AMPA receptor activity by the extracellular loops of auxiliary proteins. <i>ELife</i> , 2017, 6, .	6.0	43
14	Molecular basis of Kar9-Bim1 complex function during mating and spindle positioning. <i>Molecular Biology of the Cell</i> , 2016, 27, 3729-3745.	2.1	17
15	Bimodal antagonism of PKA signalling by ARHGAP36. <i>Nature Communications</i> , 2016, 7, 12963.	12.8	33
16	Improving short antimicrobial peptides despite elusive rules for activity. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2016, 1858, 1024-1033.	2.6	57
17	Identification of Targeting Peptides for Mucosal Delivery in Sheep and Mice. <i>Molecular Pharmaceutics</i> , 2016, 13, 202-210.	4.6	9
18	Peptide Arrays on Planar Supports. <i>Methods in Molecular Biology</i> , 2016, 1352, 3-17.	0.9	3

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19	Anti-Hemagglutinin Antibody Derived Lead Peptides for Inhibitors of Influenza Virus Binding. PLoS ONE, 2016, 11, e0159074.	2.5	25
20	Potential of acylated peptides to target the influenza A virus. Beilstein Journal of Organic Chemistry, 2015, 11, 589-595.	2.2	6
21	Exploring monovalent and multivalent peptides for the inhibition of FBP21-tWW. Beilstein Journal of Organic Chemistry, 2015, 11, 701-706.	2.2	12
22	The membrane remodeling protein Pex11p activates the GTPase Dnm1p during peroxisomal fission. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 6377-6382.	7.1	69
23	A modular toolkit to inhibit proline-rich motif-mediated protein-protein interactions. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 5011-5016.	7.1	39
24	Differential Recognition Preferences of the Three Src Homology 3 (SH3) Domains from the Adaptor CD2-associated Protein (CD2AP) and Direct Association with Ras and Rab Interactor 3 (RIN3). Journal of Biological Chemistry, 2015, 290, 25275-25292.	3.4	33
25	Recruitment of SH3-Containing Peptides to Lipid and Biological Membranes through the Use of a Palmitic Acid Functionalized with a Maleimide Group. Angewandte Chemie - International Edition, 2015, 54, 323-326.	13.8	9
26	Evolution of the SH3 Domain Specificity Landscape in Yeasts. PLoS ONE, 2015, 10, e0129229.	2.5	8
27	Cell Penetrating Peptides and Cationic Antibacterial Peptides. Journal of Biological Chemistry, 2014, 289, 14448-14457.	3.4	49
28	Rapid degradation of solid-phase bound peptides by the 20S proteasome. Journal of Peptide Science, 2013, 19, 588-597.	1.4	0
29	Mapping discontinuous protein-binding sites via structure-based peptide libraries: combining <i>in silico</i> and <i>in vitro</i> approaches. Journal of Molecular Recognition, 2013, 26, 23-31.	2.1	4
30	Targeting Mycobacterium tuberculosis and Other Microbial Pathogens Using Improved Synthetic Antibacterial Peptides. Antimicrobial Agents and Chemotherapy, 2013, 57, 2295-2303.	3.2	72
31	CtpB Assembles a Gated Protease Tunnel Regulating Cell-Cell Signaling during Spore Formation in Bacillus subtilis. Cell, 2013, 155, 647-658.	28.9	31
32	Cellular Mechanotransduction Relies on Tension-Induced and Chaperone-Assisted Autophagy. Current Biology, 2013, 23, 430-435.	3.9	246
33	Electrochemical functionalization of gold and silicon surfaces by a maleimide group as a biosensor for immunological application. Acta Biomaterialia, 2013, 9, 5838-5844.	8.3	20
34	Identification of Xin-repeat proteins as novel ligands of the SH3 domains of nebulin and nebulin and analysis of their interaction during myofibril formation and remodeling. Molecular Biology of the Cell, 2013, 24, 3215-3226.	2.1	35
35	Sequence Determinants of a Microtubule Tip Localization Signal (MtLS). Journal of Biological Chemistry, 2012, 287, 28227-28242.	3.4	44
36	A Polymorphic Microsatellite Repeat within the ECE-1c Promoter Is Involved in Transcriptional Start Site Determination, Human Evolution, and Alzheimer's Disease. Journal of Neuroscience, 2012, 32, 16807-16820.	3.6	17

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37	Synthetic peptide arrays for investigating protein interaction domains. <i>FEBS Letters</i> , 2012, 586, 2780-2786.	2.8	34
38	Histone Recognition and Large-Scale Structural Analysis of the Human Bromodomain Family. <i>Cell</i> , 2012, 149, 214-231.	28.9	1,368
39	Investigation of the network of preferred interactions in an artificial coiled-coil association using the peptide array technique. <i>Beilstein Journal of Organic Chemistry</i> , 2012, 8, 640-649.	2.2	1
40	The agony of choice: how to find a suitable CPP for cargo delivery. <i>Journal of Peptide Science</i> , 2012, 18, 293-301.	1.4	7
41	Mapping receptor–ligand interactions with synthetic peptide arrays: Exploring the structure and function of membrane receptors. <i>European Journal of Cell Biology</i> , 2012, 91, 349-356.	3.6	6
42	Chemical Biology Approaches Reveal Conserved Features of a C-Terminal Processing PDZ Protease. <i>ChemBioChem</i> , 2012, 13, 402-408.	2.6	11
43	A Disulfide-Free Single-Domain VL Intrabody with Blocking Activity towards Huntingtin Reveals a Novel Mode of Epitope Recognition. <i>Journal of Molecular Biology</i> , 2011, 414, 337-355.	4.2	33
44	Exploring Protein-Protein Interactions with Synthetic Peptide Arrays. <i>Mini-Reviews in Organic Chemistry</i> , 2011, 8, 164-170.	1.3	2
45	Chemical synthesis of the third WW domain of TCERG 1 by native chemical ligation. <i>Journal of Peptide Science</i> , 2011, 17, 644-649.	1.4	6
46	Structural Basis for Two-component System Inhibition and Pilus Sensing by the Auxiliary CpxP Protein. <i>Journal of Biological Chemistry</i> , 2011, 286, 9805-9814.	3.4	59
47	SNARE motif-mediated sorting of synaptobrevin by the endocytic adaptors clathrin assembly lymphoid myeloid leukemia (CALM) and AP180 at synapses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 13540-13545.	7.1	123
48	Complex Networks Govern Coiled-Coil Oligomerization – Predicting and Profiling by Means of a Machine Learning Approach. <i>Molecular and Cellular Proteomics</i> , 2011, 10, M110.004994.	3.8	39
49	Identification of IgE Binding to Api-1-Derived Peptides. <i>ChemBioChem</i> , 2010, 11, 2283-2293.	2.6	9
50	Engineering Peptide Inhibitors To Overcome PDZ Binding Promiscuity. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 9912-9916.	13.8	44
51	A new strategy for the preparation of maleimide-functionalised gold surfaces. <i>Electrochemistry Communications</i> , 2010, 12, 1403-1406.	4.7	15
52	Defining the immunoreactive epitope for the monoclonal anti-human glutathione peroxidase-4 antibody anti-hGPx4 Mab63-1. <i>Immunology Letters</i> , 2010, 133, 85-93.	2.5	5
53	A study to assess the cross-reactivity of cellulose membrane-bound peptides with detection systems: an analysis at the amino acid level. <i>Journal of Peptide Science</i> , 2010, 16, 297-302.	1.4	9
54	Y65C Missense Mutation in the WW Domain of the Golabi-Ito-Hall Syndrome Protein PQBP1 Affects Its Binding Activity and Dereglates Pre-mRNA Splicing. <i>Journal of Biological Chemistry</i> , 2010, 285, 19391-19401.	3.4	53

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55	Identification of a Linear Epitope in Sortilin That Partakes in Pro-neurotrophin Binding. <i>Journal of Biological Chemistry</i> , 2010, 285, 12210-12222.	3.4	16
56	A Novel Subtype of AP-1-binding Motif within the Palmitoylated trans-Golgi Network/Endosomal Accessory Protein Gadkin/ $\beta$ -BAR. <i>Journal of Biological Chemistry</i> , 2010, 285, 4074-4086.	3.4	10
57	Direct Visualization of Large and Protein-Free Hemifusion Diaphragms. <i>Biophysical Journal</i> , 2010, 98, 1192-1199.	0.5	59
58	Hemagglutinin of Influenza Virus Partitions into the Nonraft Domain of Model Membranes. <i>Biophysical Journal</i> , 2010, 99, 489-498.	0.5	55
59	Characterization of the allergen filarial tropomyosin with an invertebrate specific monoclonal antibody. <i>Acta Tropica</i> , 2010, 116, 61-67.	2.0	10
60	Farnesylation of Pex19p Is Required for Its Structural Integrity and Function in Peroxisome Biogenesis. <i>Journal of Biological Chemistry</i> , 2009, 284, 20885-20896.	3.4	47
61	Bayesian Modeling of the Yeast SH3 Domain Interactome Predicts Spatiotemporal Dynamics of Endocytosis Proteins. <i>PLoS Biology</i> , 2009, 7, e1000218.	5.6	172
62	Synthesis and Application of Peptide Arrays: Quo Vadis SPOT Technology. <i>ChemBioChem</i> , 2009, 10, 1431-1442.	2.6	84
63	Screening and Characterization of Surface-Tethered Cationic Peptides for Antimicrobial Activity. <i>Chemistry and Biology</i> , 2009, 16, 58-69.	6.0	197
64	Systematic amino acid substitutions improved efficiency of GD2-peptide mimotope vaccination against neuroblastoma. <i>European Journal of Cancer</i> , 2009, 45, 2915-2921.	2.8	17
65	Use of Artificial Intelligence in the Design of Small Peptide Antibiotics Effective against a Broad Spectrum of Highly Antibiotic-Resistant Superbugs. <i>ACS Chemical Biology</i> , 2009, 4, 65-74.	3.4	303
66	Immunization with an immunodominant self-peptide derived from glucose-6-phosphate isomerase induces arthritis in DBA/1 mice. <i>Arthritis Research and Therapy</i> , 2009, 11, R117.	3.5	18
67	Exploring and Profiling Protein Function with Peptide Arrays. <i>Methods in Molecular Biology</i> , 2009, 570, 3-17.	0.9	8
68	Evaluating the coupling efficiency of phosphorylated amino acids for SPOT synthesis. <i>Journal of Peptide Science</i> , 2008, 14, 1309-1314.	1.4	12
69	Using hydroxymethylphenoxy derivates with the SPOT technology to generate peptides with authentic C-termini. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2008, 18, 4038-4043.	2.2	11
70	Comparison of Cellular Uptake Using 22 CPPs in 4 Different Cell Lines. <i>Bioconjugate Chemistry</i> , 2008, 19, 2363-2374.	3.6	164
71	Increased Frequency of EBV-Specific Effector Memory CD8+ T Cells Correlates with Higher Viral Load in Rheumatoid Arthritis. <i>Journal of Immunology</i> , 2008, 181, 991-1000.	0.8	52
72	Box 2 Region of the Oncostatin M Receptor Determines Specificity for Recruitment of Janus Kinases and STAT5 Activation. <i>Journal of Biological Chemistry</i> , 2008, 283, 19465-19477.	3.4	33

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73	Epitope Mapping of Antibodies against S-Tagged Fusion Proteins and Molecular Weight Markers. <i>Bioscience, Biotechnology and Biochemistry</i> , 2008, 72, 346-351.	1.3	5
74	Generation and Characterization of a Rat Monoclonal Antibody Specific for PCNA. <i>Hybridoma</i> , 2008, 27, 91-98.	0.4	14
75	NS1 Specific CD8+ T-Cells with Effector Function and TRBV11 Dominance in a Patient with Parvovirus B19 Associated Inflammatory Cardiomyopathy. <i>PLoS ONE</i> , 2008, 3, e2361.	2.5	25
76	Mapping Putative Contact Sites Between Subunits in a Bacterial ATP-binding Cassette (ABC) Transporter by Synthetic Peptide Libraries. <i>Journal of Molecular Biology</i> , 2007, 369, 386-399.	4.2	8
77	Characterization of a Putative Phosphorylation Switch: Adaptation of SPOT Synthesis to Analyze PDZ Domain Regulation Mechanisms. <i>ChemBioChem</i> , 2007, 8, 2302-2307.	2.6	33
78	Sorting and pooling strategy: A novel tool to map a virus proteome for CD8 T-cell epitopes. <i>Biopolymers</i> , 2007, 88, 64-75.	2.4	19
79	A Network of Coiled-Coil Associations Derived from Synthetic GCN4 Leucine-Zipper Arrays. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 1654-1657.	13.8	15
80	Synthesis of cleavable peptides with authentic C-termini: an application for fully automated SPOT synthesis. <i>Tetrahedron Letters</i> , 2007, 48, 361-364.	1.4	13
81	Affinity profiling using the peptide microarray technology: A case study. <i>Analytical Biochemistry</i> , 2007, 363, 108-118.	2.4	26
82	Chaperones specific for the membrane-bound [NiFe] hydrogenase interact with the Tat signal peptide of the small subunit precursor in <i>Ralstonia eutropha</i> H16. <i>Molecular Microbiology</i> , 2007, 66, 453-467.	2.5	55
83	DEFINING REDUCED AMINO ACID SETS WITH A NEW SUBSTITUTION MATRIX BASED SOLELY ON BINDING AFFINITIES. , 2007, , .		0
84	The Tim21 binding domain connects the preprotein translocases of both mitochondrial membranes. <i>EMBO Reports</i> , 2006, 7, 1233-1238.	4.5	60
85	Transformation of a Biologically Active Peptide into Peptoid Analogs While Retaining Biological Activity. <i>Protein and Peptide Letters</i> , 2006, 13, 829-833.	0.9	15
86	Crystal Structure of NblA from <i>Anabaena</i> sp. PCC 7120, a Small Protein Playing a Key Role in Phycobilisome Degradation. <i>Journal of Biological Chemistry</i> , 2006, 281, 5216-5223.	3.4	46