

Matthias S Wilm

List of Publications by Year in descending order

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115
papers

40,847
citations

9756

73
h-index

24915

109
g-index

119
all docs

119
docs citations

119
times ranked

38223
citing authors

#	ARTICLE	IF	CITATIONS
1	Mass Spectrometric Sequencing of Proteins from Silver-Stained Polyacrylamide Gels. <i>Analytical Chemistry</i> , 1996, 68, 850-858.	3.2	8,535
2	A generic protein purification method for protein complex characterization and proteome exploration. <i>Nature Biotechnology</i> , 1999, 17, 1030-1032.	9.4	2,543
3	Analytical Properties of the Nanoelectrospray Ion Source. <i>Analytical Chemistry</i> , 1996, 68, 1-8.	3.2	1,828
4	Femtomole sequencing of proteins from polyacrylamide gels by nano-electrospray mass spectrometry. <i>Nature</i> , 1996, 379, 466-469.	13.7	1,723
5	The Tandem Affinity Purification (TAP) Method: A General Procedure of Protein Complex Purification. <i>Methods</i> , 2001, 24, 218-229.	1.9	1,550
6	Error-Tolerant Identification of Peptides in Sequence Databases by Peptide Sequence Tags. <i>Analytical Chemistry</i> , 1994, 66, 4390-4399.	3.2	1,521
7	Linking genome and proteome by mass spectrometry: Large-scale identification of yeast proteins from two dimensional gels. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1996, 93, 14440-14445.	3.3	1,415
8	Glucosylation of Rho proteins by <i>Clostridium difficile</i> toxin B. <i>Nature</i> , 1995, 375, 500-503.	13.7	1,030
9	Electrospray and Taylor-Cone theory, Dole's beam of macromolecules at last?. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1994, 136, 167-180.	1.9	828
10	Histone H2A deubiquitinase activity of the Polycomb repressive complex PR-DUB. <i>Nature</i> , 2010, 465, 243-247.	13.7	674
11	Phosphorylation and Inactivation of BAD by Mitochondria-Anchored Protein Kinase A. <i>Molecular Cell</i> , 1999, 3, 413-422.	4.5	593
12	Activity of DNA ligase IV stimulated by complex formation with XRCC4 protein in mammalian cells. <i>Nature</i> , 1997, 388, 492-495.	13.7	586
13	Phosphatidylinositol-3-OH kinases are Rab5 effectors. <i>Nature Cell Biology</i> , 1999, 1, 249-252.	4.6	572
14	Ran Induces Spindle Assembly by Reversing the Inhibitory Effect of Importin β on TPX2 Activity. <i>Cell</i> , 2001, 104, 83-93.	13.5	572
15	A Novel Rab5 GDP/GTP Exchange Factor Complexed to Rabaptin-5 Links Nucleotide Exchange to Effector Recruitment and Function. <i>Cell</i> , 1997, 90, 1149-1159.	13.5	552
16	Gln ⁶³ of Rho is deamidated by <i>Escherichia coli</i> cytotoxic necrotizing factor-1. <i>Nature</i> , 1997, 387, 725-729.	13.7	534
17	TAP, the Human Homolog of Mex67p, Mediates CTE-Dependent RNA Export from the Nucleus. <i>Molecular Cell</i> , 1998, 1, 649-659.	4.5	532
18	APPL Proteins Link Rab5 to Nuclear Signal Transduction via an Endosomal Compartment. <i>Cell</i> , 2004, 116, 445-456.	13.5	496

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19	Chromatin-remodelling factor CHRAC contains the ATPases ISWI and topoisomerase II. <i>Nature</i> , 1997, 388, 598-602.	13.7	484
20	mRNA Silencing in Erythroid Differentiation: hnRNP K and hnRNP E1 Regulate 15-Lipoxygenase Translation from the 3' UTR. <i>End. Cell</i> , 1997, 89, 597-606.	13.5	467
21	The Enterotoxin from <i>Clostridium difficile</i> (ToxA) Monoglucosylates the Rho Proteins. <i>Journal of Biological Chemistry</i> , 1995, 270, 13932-13936.	1.6	450
22	Regulation of intracellular calcium by a signalling complex of IRAG, IP3 receptor and cGMP kinase II β . <i>Nature</i> , 2000, 404, 197-201.	13.7	438
23	The p120 catenin partner Kaiso is a DNA methylation-dependent transcriptional repressor. <i>Genes and Development</i> , 2001, 15, 1613-1618.	2.7	431
24	Rapid <i>de novo</i> peptide sequencing by a combination of nanoelectrospray, isotopic labeling and a quadrupole/time-of-flight mass spectrometer. <i>J. Proteome Res.</i> , 1997, 11, 1015-1024.		426
25	The Conserved Nup107-160 Complex Is Critical for Nuclear Pore Complex Assembly. <i>Cell</i> , 2003, 113, 195-206.	13.5	371
26	Nuclear Pore Components Are Involved in the Transcriptional Regulation of Dosage Compensation in <i>Drosophila</i> . <i>Molecular Cell</i> , 2006, 21, 811-823.	4.5	368
27	An enzymatic cascade of Rab5 effectors regulates phosphoinositide turnover in the endocytic pathway. <i>Journal of Cell Biology</i> , 2005, 170, 607-618.	2.3	354
28	Tpx2, a Novel <i>Xenopus</i> Map Involved in Spindle Pole Organization. <i>Journal of Cell Biology</i> , 2000, 149, 1405-1418.	2.3	347
29	Rabenosyn-5, a Novel Rab5 Effector, Is Complexed with Hvps45 and Recruited to Endosomes through a Fyve Finger Domain. <i>Journal of Cell Biology</i> , 2000, 151, 601-612.	2.3	338
30	Structural basis for activation of the titin kinase domain during myofibrillogenesis. <i>Nature</i> , 1998, 395, 863-869.	13.7	333
31	REF, an evolutionarily conserved family of hnRNP-like proteins, interacts with TAP/Mex67p and participates in mRNA nuclear export. <i>Rna</i> , 2000, 6, 638-650.	1.6	331
32	Reverse genetics in the mosquito <i>Anopheles gambiae</i> : targeted disruption of the Defensin gene. <i>EMBO Reports</i> , 2002, 3, 852-856.	2.0	331
33	A Polycomb group protein complex with sequence-specific DNA-binding and selective methyl-lysine-binding activities. <i>Genes and Development</i> , 2006, 20, 1110-1122.	2.7	331
34	Small Nuclear Ribonucleoprotein Remodeling During Catalytic Activation of the Spliceosome. <i>Science</i> , 2002, 298, 2205-2208.	6.0	330
35	A Common Core RNP Structure Shared between the Small Nuclear Box C/D RNPs and the Spliceosomal U4 snRNP. <i>Cell</i> , 2000, 103, 457-466.	13.5	318
36	PHAX, a Mediator of U snRNA Nuclear Export Whose Activity Is Regulated by Phosphorylation. <i>Cell</i> , 2000, 101, 187-198.	13.5	311

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37	The C-terminal domain of TAP interacts with the nuclear pore complex and promotes export of specific CTE-bearing RNA substrates. <i>Rna</i> , 2000, 6, 136-158.	1.6	298
38	Parent Ion Scans of Unseparated Peptide Mixtures. <i>Analytical Chemistry</i> , 1996, 68, 527-533.	3.2	287
39	Protein composition of human prespliceosomes isolated by a tobramycin affinity-selection method. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 16719-16724.	3.3	263
40	The <i>S. cerevisiae</i> SET3 complex includes two histone deacetylases, Hos2 and Hst1, and is a meiotic-specific repressor of the sporulation gene program. <i>Genes and Development</i> , 2001, 15, 2991-3004.	2.7	250
41	Activation of a Novel Calcium-dependent Protein-tyrosine Kinase. <i>Journal of Biological Chemistry</i> , 1996, 271, 29993-29998.	1.6	246
42	Pcl-PRC2 is needed to generate high levels of H3-K27 trimethylation at Polycomb target genes. <i>EMBO Journal</i> , 2007, 26, 4078-4088.	3.5	236
43	Characterization of novel SF3b and 17S U2 snRNP proteins, including a human Prp5p homologue and an SF3b DEAD-box protein. <i>EMBO Journal</i> , 2002, 21, 4978-4988.	3.5	233
44	HURP Is Part of a Ran-Dependent Complex Involved in Spindle Formation. <i>Current Biology</i> , 2006, 16, 743-754.	1.8	230
45	Vesicular Stomatitis Virus Matrix Protein Inhibits Host Cell Gene Expression by Targeting the Nucleoporin Nup98. <i>Molecular Cell</i> , 2000, 6, 1243-1252.	4.5	226
46	RanGTP mediates nuclear pore complex assembly. <i>Nature</i> , 2003, 424, 689-694.	13.7	219
47	The DExH/D box protein HEL/UAP56 is essential for mRNA nuclear export in <i>Drosophila</i> . <i>Current Biology</i> , 2001, 11, 1716-1721.	1.8	213
48	Electrospray mass spectrometry for protein characterization. <i>Trends in Biochemical Sciences</i> , 1995, 20, 219-224.	3.7	212
49	A strategy for identifying gel-separated proteins in sequence databases by MS alone. <i>Biochemical Society Transactions</i> , 1996, 24, 893-896.	1.6	212
50	Sample Preparation Methods for Mass Spectrometric Peptide Mapping Directly from 2-DE Gels. , 1999, 112, 513-530.		211
51	DMSO enhances electrospray response, boosting sensitivity of proteomic experiments. <i>Nature Methods</i> , 2013, 10, 989-991.	9.0	209
52	RanGTP-Regulated Interactions of CRM1 with Nucleoporins and a Shuttling DEAD-Box Helicase. <i>Molecular and Cellular Biology</i> , 1999, 19, 6276-6285.	1.1	193
53	The Rab5 Effector Rabankyrin-5 Regulates and Coordinates Different Endocytic Mechanisms. <i>PLoS Biology</i> , 2004, 2, e261.	2.6	192
54	Genome-wide analysis of mRNAs regulated by the THO complex in <i>Drosophila melanogaster</i> . <i>Nature Structural and Molecular Biology</i> , 2004, 11, 558-566.	3.6	190

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55	Principles of Electrospray Ionization. <i>Molecular and Cellular Proteomics</i> , 2011, 10, M111.009407.	2.5	186
56	An efficient protein complex purification method for functional proteomics in higher eukaryotes. <i>Nature Biotechnology</i> , 2003, 21, 89-92.	9.4	181
57	A subset of human 35S U5 proteins, including Prp19, function prior to catalytic step 1 of splicing. <i>EMBO Journal</i> , 2004, 23, 2381-2391.	3.5	159
58	RBM5/Luca-15/H37 Regulates Fas Alternative Splice Site Pairing after Exon Definition. <i>Molecular Cell</i> , 2008, 32, 81-95.	4.5	153
59	<i>Legionella pneumophila</i> glucosyltransferase inhibits host elongation factor 1A. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 16953-16958.	3.3	139
60	IRAG mediates NO/cGMP-dependent inhibition of platelet aggregation and thrombus formation. <i>Blood</i> , 2007, 109, 552-559.	0.6	139
61	<i>Clostridium novyi</i> Î±-Toxin-catalyzed Incorporation of GlcNAc into Rho Subfamily Proteins. <i>Journal of Biological Chemistry</i> , 1996, 271, 25173-25177.	1.6	128
62	Peptide sequencing by mass spectrometry for homology searches and cloning of genes. <i>The Protein Journal</i> , 1997, 16, 481-490.	1.1	127
63	NuSAP, a Mitotic RanGTP Target That Stabilizes and Cross-links Microtubules. <i>Molecular Biology of the Cell</i> , 2006, 17, 2646-2660.	0.9	107
64	De Novo Peptide Sequencing by Nanoelectrospray Tandem Mass Spectrometry Using Triple Quadrupole and Quadrupole/Time-of-Flight Instruments. , 2000, 146, 1-16.		98
65	Nup155 regulates nuclear envelope and nuclear pore complex formation in nematodes and vertebrates. <i>EMBO Journal</i> , 2005, 24, 3519-3531.	3.5	98
66	The DEXD/H-box RNA helicase RHII/Gu is a co-factor for c-Jun-activated transcription. <i>EMBO Journal</i> , 2002, 21, 451-460.	3.5	96
67	Mass Spectrometric Analysis of Nitric Oxide-modified Caspase-3. <i>Journal of Biological Chemistry</i> , 1999, 274, 20931-20936.	1.6	95
68	Costimulation induced phosphorylation of L-plastin facilitates surface transport of the T cell activation molecules CD69 and CD25. <i>European Journal of Immunology</i> , 2007, 37, 649-662.	1.6	89
69	Identification of 40LoVe, a <i>Xenopus</i> hnRNP D Family Protein Involved in Localizing a TGF-Î²-Related mRNA during Oogenesis. <i>Developmental Cell</i> , 2005, 8, 505-515.	3.1	84
70	Preprocessing of tandem mass spectrometric data to support automatic protein identification. <i>Proteomics</i> , 2003, 3, 1597-1610.	1.3	82
71	Biochemical Function of Female-Lethal (2)D/Wilms' Tumor Suppressor-1-associated Proteins in Alternative Pre-mRNA Splicing. <i>Journal of Biological Chemistry</i> , 2003, 278, 3040-3047.	1.6	82
72	"De Novo" Sequencing of Peptides Recovered from In-Gel Digested Proteins by Nanoelectrospray Tandem Mass Spectrometry. <i>Molecular Biotechnology</i> , 2002, 20, 107-118.	1.3	81

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73	Cdk11 is a RanGTP-dependent microtubule stabilization factor that regulates spindle assembly rate. <i>Journal of Cell Biology</i> , 2008, 180, 867-875.	2.3	81
74	Phosphorylation and structure-based functional studies reveal a positive and a negative role for the activation loop of the c-Abl tyrosine kinase. <i>Oncogene</i> , 2001, 20, 8075-8084.	2.6	80
75	MOF-Regulated Acetylation of MSL-3 in the Drosophila Dosage Compensation Complex. <i>Molecular Cell</i> , 2003, 11, 1265-1277.	4.5	78
76	Sex-lethal imparts a sex-specific function to UNR by recruiting it to the msl-2 mRNA 3' UTR: translational repression for dosage compensation. <i>Genes and Development</i> , 2006, 20, 368-379.	2.7	78
77	The Sec14 Homology Module of Neurofibromin Binds Cellular Glycerophospholipids: Mass Spectrometry and Structure of a Lipid Complex. <i>Journal of Molecular Biology</i> , 2007, 366, 551-562.	2.0	77
78	Splicing factors stimulate polyadenylation via USEs at non-canonical 3' end formation signals. <i>EMBO Journal</i> , 2007, 26, 2658-2669.	3.5	75
79	Importin β associates with membranes and participates in nuclear envelope assembly in vitro. <i>EMBO Journal</i> , 2004, 23, 1526-1535.	3.5	74
80	Quantitative proteomics in biological research. <i>Proteomics</i> , 2009, 9, 4590-4605.	1.3	73
81	p38 MAPK Controls Prothrombin Expression by Regulated RNA 3' End Processing. <i>Molecular Cell</i> , 2011, 41, 298-310.	4.5	70
82	The modified base J is the target for a novel DNA-binding protein in kinetoplastid protozoans. <i>EMBO Journal</i> , 1999, 18, 6573-6581.	3.5	67
83	Peptide Sequencing of 2-DE Gel-Isolated Proteins by Nanoelectrospray Tandem Mass Spectrometry. , 1999, 112, 571-588.		62
84	Hsp90 enables Ctf13p/Skp1p to nucleate the budding yeast kinetochore. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 8585-8590.	3.3	62
85	Nano electrospray combined with a quadrupole ion trap for the analysis of peptides and protein digests. <i>Journal of the American Society for Mass Spectrometry</i> , 1996, 7, 150-156.	1.2	60
86	Structural basis for targeting the chromatin repressor Sfrmbt to Polycomb response elements. <i>Genes and Development</i> , 2013, 27, 2367-2379.	2.7	53
87	Prothymosin β associates with the oncoprotein SET and is involved in chromatin decondensation. <i>FEBS Letters</i> , 2004, 577, 496-500.	1.3	52
88	Building the Stator of the Yeast Vacuolar-ATPase. <i>Journal of Biological Chemistry</i> , 2004, 279, 40670-40676.	1.6	49
89	Automated de novo sequencing of proteins using the differential scanning technique. <i>Proteomics</i> , 2001, 1, 668-682.	1.3	45
90	Rapid Protein Sequencing by Tandem Mass Spectrometry and cDNA Cloning of p20-CGGBP. <i>Journal of Biological Chemistry</i> , 1997, 272, 16761-16768.	1.6	44

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91	Noise filtering techniques for electrospray quadrupole time of flight mass spectra. <i>Journal of the American Society for Mass Spectrometry</i> , 2003, 14, 766-776.	1.2	42
92	Combination of peptide OFFGEL fractionation and label-free quantitation facilitated proteomics profiling of extraocular muscle. <i>Proteomics</i> , 2007, 7, 3404-3416.	1.3	42
93	Silicone/graphite coating for on-target desalting and improved peptide mapping performance of matrix-assisted laser desorption/ionization-mass spectrometry targets in proteomic experiments. <i>Proteomics</i> , 2005, 5, 1460-1471.	1.3	40
94	Proteomic characterisation of neuronal sphingolipid-cholesterol microdomains: role in plasminogen activation. <i>Brain Research</i> , 2003, 987, 107-116.	1.1	39
95	Bioactive hydrolysates from bovine blood globulins: Generation, characterisation, and in silico prediction of toxicity and allergenicity. <i>Journal of Functional Foods</i> , 2016, 24, 142-155.	1.6	39
96	Nano-electrospray-based detection and sequencing of substoichiometric amounts of phosphopeptides in complex mixtures. <i>Journal of Mass Spectrometry</i> , 2003, 38, 131-137.	0.7	38
97	Quantitative Proteomics Profiling of Sarcomere Associated Proteins in Limb and Extraocular Muscle Allotypes. <i>Molecular and Cellular Proteomics</i> , 2007, 6, 728-737.	2.5	36
98	Complexes between the nonsense-mediated mRNA decay pathway factor human upf1 (up-frameshift) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 2003, 373, 775-783.	1.7	32
99	A general precursor ion-like scanning mode on quadrupole-TOF instruments compatible with chromatographic separation. <i>Proteomics</i> , 2006, 6, 41-53.	1.3	32
100	A Compartmentalized Phosphorylation/Dephosphorylation System That Regulates U snRNA Export from the Nucleus. <i>Molecular and Cellular Biology</i> , 2008, 28, 487-497.	1.1	27
101	Geminin Cleavage during Apoptosis by Caspase-3 Alters Its Binding Ability to the SWI/SNF Subunit Brahma. <i>Journal of Biological Chemistry</i> , 2007, 282, 9346-9357.	1.6	24
102	Mass spectrometric analysis of proteins. <i>Advances in Protein Chemistry</i> , 2000, 54, 1-30.	4.4	23
103	Matrix-assisted laser desorption/ionization directed nano-electrospray ionization tandem mass spectrometric analysis for protein identification. <i>Rapid Communications in Mass Spectrometry</i> , 2003, 17, 1825-1834.	0.7	22
104	New carbamate supports for the preparation of 3'-amino-modified oligonucleotides. <i>Bioorganic and Medicinal Chemistry</i> , 1996, 4, 1649-1658.	1.4	21
105	A homologue of cysteine-rich secretory proteins induces premature degradation of vitelline envelopes and hatching of <i>Xenopus laevis</i> embryos. <i>Mechanisms of Development</i> , 2003, 120, 937-948.	1.7	21
106	Translation initiation by the c-myc mRNA internal ribosome entry sequence and the poly(A) tail. <i>Rna</i> , 2008, 14, 1579-1589.	1.6	21
107	Preparation of oligonucleotide-dexamethasone conjugates. <i>Bioorganic and Medicinal Chemistry Letters</i> , 1995, 5, 1577-1580.	1.0	20
108	Lysine and Polyamines Are Substrates for Transglutamination of Rho by the Bordetella Dermonecrotic Toxin. <i>Infection and Immunity</i> , 2001, 69, 7663-7670.	1.0	20

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109	Lipid Discovery by Combinatorial Screening and Untargeted LC-MS/MS. Scientific Reports, 2016, 6, 27920.	1.6	10
110	Applications of sustained off-resonance irradiation (SORI) and quadrupolar excitation axialization (QEA) for the characterization of biomolecules by Fourier-transform mass spectrometry (FTMS). Biochemical Society Transactions, 1996, 24, 943-947.	1.6	9
111	Molecular cloning and N-terminal analysis of bovine cystatin C. BBA - Proteins and Proteomics, 1997, 1343, 203-210.	2.1	7
112	The application of robotics and mass spectrometry to the characterisation of the <i>Drosophila melanogaster</i> indirect flight muscle proteome. International Journal of Peptide Research and Therapeutics, 1997, 4, 57-65.	0.1	7
113	The role of RNA interference in drug target validation: Application to Hepatitis C. , 2005, , 318-330.		1
114	Peptide Sequencing by Nanoelectrospray Tandem Mass Spectrometry. Springer Protocols, 2009, , 1095-1115.	0.1	0
115	The Physiology of Prothrombin Gene Expression Integrates RNA Polyadenylation and Splicing in a Novel Regulatable 3' RNP-Complex.. Blood, 2006, 108, 1601-1601.	0.6	0