

Sonja Hess

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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.

67
papers

3,587
citations

28
h-index

59
g-index

67
ext. papers

3,935
ext. citations

6.7
avg, IF

4.94
L-index

#	Paper	IF	Citations
67	Broad activation of the ubiquitin-proteasome system by Parkin is critical for mitophagy. <i>Human Molecular Genetics</i> , 2011 , 20, 1726-37	5.6	737
66	The molecular structure of spider dragline silk: folding and orientation of the protein backbone. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 10266-71	11.5	424
65	Protein disulfide isomerase acts as an injury response signal that enhances fibrin generation via tissue factor activation. <i>Journal of Clinical Investigation</i> , 2008 , 118, 1110-22	15.9	219
64	Cand1 promotes assembly of new SCF complexes through dynamic exchange of F box proteins. <i>Cell</i> , 2013 , 153, 206-15	56.2	169
63	Structural basis for high-affinity binding of LEDGF PWWP to mononucleosomes. <i>Nucleic Acids Research</i> , 2013 , 41, 3924-36	20.1	151
62	Mycobacterium tuberculosis produces pili during human infection. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 5145-50	11.5	136
61	Lignans isolated from valerian: identification and characterization of a new olivil derivative with partial agonistic activity at A(1) adenosine receptors. <i>Journal of Natural Products</i> , 2002 , 65, 1479-85	4.9	119
60	Evaluation and optimization of mass spectrometric settings during data-dependent acquisition mode: focus on LTQ-Orbitrap mass analyzers. <i>Journal of Proteome Research</i> , 2013 , 12, 3071-86	5.6	110
59	Neamphamide A, a new HIV-inhibitory depsipeptide from the Papua New Guinea marine sponge <i>Neamphius huxleyi</i> . <i>Journal of Natural Products</i> , 2004 , 67, 1407-11	4.9	106
58	Quantitative proteomic analysis of the secretory proteins from rat adipose cells using a 2D liquid chromatography-MS/MS approach. <i>Journal of Proteome Research</i> , 2005 , 4, 570-7	5.6	104
57	The top-down, middle-down, and bottom-up mass spectrometry approaches for characterization of histone variants and their post-translational modifications. <i>Proteomics</i> , 2014 , 14, 489-97	4.8	103
56	Isolation of homodolastatin 16, a new cyclic depsipeptide from a Kenyan collection of <i>Lyngbya majuscula</i> . <i>Journal of Natural Products</i> , 2003 , 66, 712-5	4.9	67
55	Chirality determination of unusual amino acids using precolumn derivatization and liquid chromatography-electrospray ionization mass spectrometry. <i>Journal of Chromatography A</i> , 2004 , 1035, 211-9	4.5	62
54	Characterization of the Mycobacterium tuberculosis proteome by liquid chromatography mass spectrometry-based proteomics techniques: a comprehensive resource for tuberculosis research. <i>Journal of Proteome Research</i> , 2012 , 11, 119-30	5.6	51
53	Dopaminergic modulation of the hippocampal neuropil proteome identified by bioorthogonal noncanonical amino acid tagging (BONCAT). <i>Proteomics</i> , 2012 , 12, 2464-76	4.8	50
52	Modulation of replication protein A function by its hyperphosphorylation-induced conformational change involving DNA binding domain B. <i>Journal of Biological Chemistry</i> , 2005 , 280, 32775-83	5.4	48
51	An allosteric mechanism for inhibiting HIV-1 integrase with a small molecule. <i>Molecular Pharmacology</i> , 2009 , 76, 824-32	4.3	44

50	Solid-state NMR data support a helix-loop-helix structural model for the N-terminal half of HIV-1 Rev in fibrillar form. <i>Journal of Molecular Biology</i> , 2001 , 313, 845-59	6.5	44
49	Effect of mass spectrometric parameters on peptide and protein identification rates for shotgun proteomic experiments on an LTQ-orbitrap mass analyzer. <i>Proteomics</i> , 2012 , 12, 21-31	4.8	43
48	7-Deazaadenines bearing polar substituents: structure-activity relationships of new A(1) and A(3) adenosine receptor antagonists. <i>Journal of Medicinal Chemistry</i> , 2000 , 43, 4636-46	8.3	43
47	Recent advances in adenosine receptor antagonist research. <i>Expert Opinion on Therapeutic Patents</i> , 2001 , 11, 1533-1561	6.8	42
46	Designer reagents for mass spectrometry-based proteomics: clickable cross-linkers for elucidation of protein structures and interactions. <i>Analytical Chemistry</i> , 2012 , 84, 2662-9	7.8	39
45	Identification of an inhibitor-binding site to HIV-1 integrase with affinity acetylation and mass spectrometry. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 6894-9	11.5	37
44	Synthesis and immunological activity of water-soluble thalidomide prodrugs. <i>Bioorganic and Medicinal Chemistry</i> , 2001 , 9, 1279-91	3.4	34
43	Data-dependent middle-down nano-liquid chromatography-electron capture dissociation-tandem mass spectrometry: an application for the analysis of unfractionated histones. <i>Analytical Chemistry</i> , 2013 , 85, 3501-7	7.8	33
42	Acid hydrolysis of silk fibroins and determination of the enrichment of isotopically labeled amino acids using precolumn derivatization and high-performance liquid chromatography-electrospray ionization-mass spectrometry. <i>Analytical Biochemistry</i> , 2002 , 311, 19-26	3.1	31
41	Bioorthogonal Noncanonical Amino Acid Tagging (BONCAT) Enables Time-Resolved Analysis of Protein Synthesis in Native Plant Tissue. <i>Plant Physiology</i> , 2017 , 173, 1543-1553	6.6	29
40	Click chemistry facilitates formation of reporter ions and simplified synthesis of amine-reactive multiplexed isobaric tags for protein quantification. <i>Journal of the American Chemical Society</i> , 2012 , 134, 2672-80	16.4	28
39	Preparation of stable isotope-labeled peripheral cannabinoid receptor CB2 by bacterial fermentation. <i>Protein Expression and Purification</i> , 2010 , 70, 236-47	2	27
38	Thermolytic CpG-containing DNA oligonucleotides as potential immunotherapeutic prodrugs. <i>Nucleic Acids Research</i> , 2005 , 33, 3550-60	20.1	26
37	Adipose proteome analysis: focus on mediators of insulin resistance. <i>Expert Review of Proteomics</i> , 2008 , 5, 827-39	4.2	24
36	Cellular expression and crystal structure of the murine cytomegalovirus major histocompatibility complex class I-like glycoprotein, m153. <i>Journal of Biological Chemistry</i> , 2007 , 282, 35247-58	5.4	22
35	Mass spectrometric analysis of the HIV-1 integrase-pyridoxal 5'phosphate complex reveals a new binding site for a nucleotide inhibitor. <i>Journal of Biological Chemistry</i> , 2005 , 280, 7949-55	5.4	22
34	In vivo mechanism-based inactivation of S-adenosylmethionine decarboxylases from <i>Escherichia coli</i> , <i>Salmonella typhimurium</i> , and <i>Saccharomyces cerevisiae</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001 , 98, 10578-83	11.5	22
33	Solid-phase synthesis of thermolytic DNA oligonucleotides functionalized with a single 4-hydroxy-1-butyl or 4-phosphato-/thiophosphato-1-butyl thiophosphate protecting group. <i>Journal of Organic Chemistry</i> , 2007 , 72, 805-15	4.2	21

32	Genes malh and pagl of Clostridium acetobutylicum ATCC 824 encode NAD ⁺ - and Mn ²⁺ -dependent phospho-alpha-glucosidase(s). <i>Journal of Biological Chemistry</i> , 2004 , 279, 1553-61	5.4	21
31	Activation of p107 by fibroblast growth factor, which is essential for chondrocyte cell cycle exit, is mediated by the protein phosphatase 2A/B55 β holoenzyme. <i>Molecular and Cellular Biology</i> , 2013 , 33, 3330-42	4.8	20
30	Profiling indomethacin impurities using high-performance liquid chromatography and nuclear magnetic resonance. <i>European Journal of Pharmaceutical Sciences</i> , 2001 , 14, 301-11	5.1	20
29	High resolution footprinting of the hepatitis C virus polymerase NS5B in complex with RNA. <i>Journal of Biological Chemistry</i> , 2007 , 282, 16907-16	5.4	18
28	Plant annexins form calcium-independent oligomers in solution. <i>Protein Science</i> , 2002 , 11, 2033-40	6.3	17
27	Staphylococcus aureus drives expansion of low-density neutrophils in diabetic mice. <i>Journal of Clinical Investigation</i> , 2019 , 129, 2133-2144	15.9	17
26	Comprehensive profiling of N-linked glycosylation sites in HeLa cells using hydrazide enrichment. <i>Journal of Proteome Research</i> , 2013 , 12, 248-59	5.6	16
25	The emerging field of chemo- and pharmacoproteomics. <i>Proteomics - Clinical Applications</i> , 2013 , 7, 171-80	5.1	14
24	A corona discharge initiated electrochemical electrospray ionization technique. <i>Journal of the American Society for Mass Spectrometry</i> , 2009 , 20, 1988-96	3.5	14
23	Genetic requirements for growth of Escherichia coli K12 on methyl-alpha-D-glucopyranoside and the five alpha-D-glucosyl-D-fructose isomers of sucrose. <i>Journal of Biological Chemistry</i> , 2006 , 281, 17900-8	5.4	14
22	Amended description of the genes for synthesis of Actinomyces naeslundii T14V type 1 fimbriae and associated adhesin. <i>Infection and Immunity</i> , 2007 , 75, 4181-5	3.7	14
21	Recent advances in defining the ubiquitylome. <i>Expert Review of Proteomics</i> , 2014 , 11, 477-90	4.2	12
20	Mass Spectrometry in the Elucidation of the Glycoproteome of Bacterial Pathogens. <i>Current Proteomics</i> , 2010 , 7, 57-81	0.7	11
19	Mechanism of an ATP-independent protein disaggregase: I. structure of a membrane protein aggregate reveals a mechanism of recognition by its chaperone. <i>Journal of Biological Chemistry</i> , 2013 , 288, 13420-30	5.4	10
18	Analysis of a G protein-coupled receptor for neurotensin by liquid chromatography-electrospray ionization-mass spectrometry. <i>Analytical Biochemistry</i> , 2008 , 376, 13-24	3.1	10
17	Identification and characterization of hydrophobic Escherichia coli virulence proteins by liquid chromatography-electrospray ionization mass spectrometry. <i>Analytical Biochemistry</i> , 2002 , 302, 123-30	3.1	10
16	The sim operon facilitates the transport and metabolism of sucrose isomers in Lactobacillus casei ATCC 334. <i>Journal of Bacteriology</i> , 2008 , 190, 3362-73	3.5	9
15	Effect of an adenosine A(1) receptor agonist and a novel pyrimidoindole on membrane properties and neurotransmitter release in rat cortical and hippocampal neurons. <i>Neurochemistry International</i> , 2001 , 38, 391-8	4.4	8

14	Recent proteomic advances in developmental, regeneration, and cancer governing signaling pathways. <i>Proteomics</i> , 2015 , 15, 1014-25	4.8	7
13	Peptide fragmentation by corona discharge induced electrochemical ionization. <i>Journal of the American Society for Mass Spectrometry</i> , 2010 , 21, 2051-61	3.5	7
12	Endogenous retroviral insertion in Cryge in the mouse No3 cataract mutant. <i>Genomics</i> , 2007 , 89, 512-20	4.3	7
11	Structure of cyclized green fluorescent protein. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2002 , 58, 1400-6		7
10	Resistance to Pyrrolobenzodiazepine Dimers Is Associated with SLFN11 Downregulation and Can Be Reversed through Inhibition of ATR. <i>Molecular Cancer Therapeutics</i> , 2021 , 20, 541-552	6.1	7
9	A combined top-down and bottom-up MS approach for the characterization of hemoglobin variants in Rhesus monkeys. <i>Proteomics</i> , 2010 , 10, 3657-68	4.8	6
8	Rapid and sensitive LC separation of new impurities in trimethoprim. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2001 , 25, 531-8	3.5	6
7	Electron capture dissociation of hydrogen-deficient peptide radical cations. <i>Journal of the American Society for Mass Spectrometry</i> , 2012 , 23, 1729-40	3.5	5
6	Middle-down electron capture dissociation and electron transfer dissociation for histone analysis. <i>Journal of Analytical Science and Technology</i> , 2015 , 6,	3.4	3
5	A universal HPLC-MS method to determine the stereochemistry of common and unusual amino acids. <i>Methods in Molecular Biology</i> , 2012 , 828, 63-75	1.4	3
4	Characterization of Citrullination Sites in Neutrophils and Mast Cells Activated by Ionomycin via Integration of Mass Spectrometry and Machine Learning. <i>Journal of Proteome Research</i> , 2021 , 20, 3150-3164	5.6	3
3	High resolution data-independent acquisition with electron transfer dissociation mass spectrometry: Multiplexed analysis of post-translationally modified proteins. <i>International Journal of Mass Spectrometry</i> , 2015 , 390, 155-162	1.9	2
2	PD-L1 neutrophils contribute to injury-induced infection susceptibility. <i>Science Advances</i> , 2021 , 7,	14.3	1
1	Metabolomic Profiling of Human Urine Samples Using LC-TIMS-QTOF Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2021 , 32, 2072-2080	3.5	1