

# Sonja Hess

## List of Publications by Year in descending order

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67  
papers

4,240  
citations

172457

29  
h-index

110387

64  
g-index

67  
all docs

67  
docs citations

67  
times ranked

8970  
citing authors

#	ARTICLE	IF	CITATIONS
1	Broad activation of the ubiquitin-proteasome system by Parkin is critical for mitophagy. <i>Human Molecular Genetics</i> , 2011, 20, 1726-1737.	2.9	851
2	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, 10266-10271.	7.1	465
3	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.	8.2	251
4	Cand1 Promotes Assembly of New SCF Complexes through Dynamic Exchange of F Box Proteins. <i>Cell</i> , 2013, 153, 206-215.	28.9	228
5	Structural basis for high-affinity binding of LEDGF PWWP to mononucleosomes. <i>Nucleic Acids Research</i> , 2013, 41, 3924-3936.	14.5	182
6	<i>Mycobacterium tuberculosis</i> produces pili during human infection. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 5145-5150.	7.1	164
7	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, 3071-3086.	3.7	148
8	Lignans Isolated from Valerian: Identification and Characterization of a New Olivil Derivative with Partial Agonistic Activity at A1 Adenosine Receptors. <i>Journal of Natural Products</i> , 2002, 65, 1479-1485.	3.0	143
9	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, 489-497.	2.2	122
10	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, 1407-1411.	3.0	120
11	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, 570-577.	3.7	115
12	Isolation of Homodolastatin 16, a New Cyclic Depsipeptide from a Kenyan Collection of <i>Lyngbyamajuscula</i> . <i>Journal of Natural Products</i> , 2003, 66, 712-715.	3.0	81
13	Chirality determination of unusual amino acids using precolumn derivatization and liquid chromatography-electrospray ionization mass spectrometry. <i>Journal of Chromatography A</i> , 2004, 1035, 211-219.	3.7	74
14	Characterization of the <i>Mycobacterium tuberculosis</i> Proteome by Liquid Chromatography Mass Spectrometry-based Proteomics Techniques: A Comprehensive Resource for Tuberculosis Research. <i>Journal of Proteome Research</i> , 2012, 11, 119-130.	3.7	61
15	Dopaminergic modulation of the hippocampal neuropil proteome identified by bioorthogonal noncanonical amino acid tagging (BONCAT). <i>Proteomics</i> , 2012, 12, 2464-2476.	2.2	58
16	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, 32775-32783.	3.4	55
17	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.	2.2	50
18	7-Deazaadenines Bearing Polar Substituents: Structure-Activity Relationships of New A1 and A3 Adenosine Receptor Antagonists. <i>Journal of Medicinal Chemistry</i> , 2000, 43, 4636-4646.	6.4	49

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19	An Allosteric Mechanism for Inhibiting HIV-1 Integrase with a Small Molecule. <i>Molecular Pharmacology</i> , 2009, 76, 824-832.	2.3	48
20	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, 845-859.	4.2	47
21	Recent advances in adenosine receptor antagonist research. <i>Expert Opinion on Therapeutic Patents</i> , 2001, 11, 1533-1561.	5.0	46
22	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.	4.8	43
23	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, 6894-6899.	7.1	42
24	Designer Reagents for Mass Spectrometry-Based Proteomics: Clickable Cross-Linkers for Elucidation of Protein Structures and Interactions. <i>Analytical Chemistry</i> , 2012, 84, 2662-2669.	6.5	41
25	Synthesis and immunological activity of water-soluble Thalidomide prodrugs. <i>Bioorganic and Medicinal Chemistry</i> , 2001, 9, 1279-1291.	3.0	38
26	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.	2.4	35
27	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, 3501-3507.	6.5	35
28	Thermolytic CpG-containing DNA oligonucleotides as potential immunotherapeutic prodrugs. <i>Nucleic Acids Research</i> , 2005, 33, 3550-3560.	14.5	30
29	Preparation of stable isotope-labeled peripheral cannabinoid receptor CB2 by bacterial fermentation. <i>Protein Expression and Purification</i> , 2010, 70, 236-247.	1.3	30
30	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, 2672-2680.	13.7	30
31	<i>Staphylococcus aureus</i> drives expansion of low-density neutrophils in diabetic mice. <i>Journal of Clinical Investigation</i> , 2019, 129, 2133-2144.	8.2	30
32	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, 10578-10583.	7.1	27
33	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, 7949-7955.	3.4	27
34	Genes <i>malh</i> and <i>pagl</i> of <i>Clostridium acetobutylicum</i> ATCC 824 Encode NAD <sup>+</sup> - and Mn <sup>2+</sup> -dependent Phospho- $\alpha$ -glucosidase(s). <i>Journal of Biological Chemistry</i> , 2004, 279, 1553-1561.	3.4	26
35	Activation of p107 by Fibroblast Growth Factor, Which Is Essential for Chondrocyte Cell Cycle Exit, Is Mediated by the Protein Phosphatase 2A/B551 $\alpha$ Holoenzyme. <i>Molecular and Cellular Biology</i> , 2013, 33, 3330-3342.	2.3	26
36	Adipose proteome analysis: focus on mediators of insulin resistance. <i>Expert Review of Proteomics</i> , 2008, 5, 827-839.	3.0	25

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37	PD-L1 <sup>+</sup> neutrophils contribute to injury-induced infection susceptibility. <i>Science Advances</i> , 2021, 7, .	10.3	24
38	Profiling indomethacin impurities using high-performance liquid chromatography and nuclear magnetic resonance. <i>European Journal of Pharmaceutical Sciences</i> , 2001, 14, 301-311.	4.0	22
39	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, 35247-35258.	3.4	22
40	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, 805-815.	3.2	22
41	Comprehensive Profiling of N-Linked Glycosylation Sites in HeLa Cells Using Hydrazide Enrichment. <i>Journal of Proteome Research</i> , 2013, 12, 248-259.	3.7	21
42	High Resolution Footprinting of the Hepatitis C Virus Polymerase NS5B in Complex with RNA. <i>Journal of Biological Chemistry</i> , 2007, 282, 16907-16916.	3.4	20
43	Plant annexins form calcium-independent oligomers in solution. <i>Protein Science</i> , 2002, 11, 2033-2040.	7.6	19
44	Genetic Requirements for Growth of <i>Escherichia coli</i> 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, 17900-17908.	3.4	19
45	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.	4.1	18
46	Mechanism of an ATP-independent Protein Disaggregase. <i>Journal of Biological Chemistry</i> , 2013, 288, 13420-13430.	3.4	17
47	A corona discharge initiated electrochemical electrospray ionization technique. <i>Journal of the American Society for Mass Spectrometry</i> , 2009, 20, 1988-1996.	2.8	16
48	The emerging field of chemo- and pharmacoproteomics. <i>Proteomics - Clinical Applications</i> , 2013, 7, 171-180.	1.6	15
49	Amended Description of the Genes for Synthesis of <i>Actinomyces naeslundii</i> T14V Type 1 Fimbriae and Associated Adhesin. <i>Infection and Immunity</i> , 2007, 75, 4181-4185.	2.2	14
50	Identification and Characterization of Hydrophobic <i>Escherichia coli</i> Virulence Proteins by Liquid Chromatography-Electrospray Ionization Mass Spectrometry. <i>Analytical Biochemistry</i> , 2002, 302, 123-130.	2.4	13
51	Recent advances in defining the ubiquitylome. <i>Expert Review of Proteomics</i> , 2014, 11, 477-490.	3.0	13
52	Analysis of a G protein-coupled receptor for neurotensin by liquid chromatography-electrospray ionization-mass spectrometry. <i>Analytical Biochemistry</i> , 2008, 376, 13-24.	2.4	12
53	The <i>sim</i> Operon Facilitates the Transport and Metabolism of Sucrose Isomers in <i>Lactobacillus casei</i> ATCC 334. <i>Journal of Bacteriology</i> , 2008, 190, 3362-3373.	2.2	11
54	Mass Spectrometry in the Elucidation of the Glycoproteome of Bacterial Pathogens. <i>Current Proteomics</i> , 2010, 7, 57-81.	0.3	11

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55	Rapid and sensitive LC separation of new impurities in trimethoprim. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2001, 25, 531-538.	2.8	9
56	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.	3.7	9
57	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.	2.8	9
58	Effect of an adenosine A1 receptor agonist and a novel pyrimidoindole on membrane properties and neurotransmitter release in rat cortical and hippocampal neurons. <i>Neurochemistry International</i> , 2001, 38, 391-398.	3.8	8
59	Endogenous retroviral insertion in Cryge in the mouse No3 cataract mutant. <i>Genomics</i> , 2007, 89, 512-520.	2.9	8
60	Recent proteomic advances in developmental, regeneration, and cancer governing signaling pathways. <i>Proteomics</i> , 2015, 15, 1014-1025.	2.2	8
61	Structure of cyclized green fluorescent protein. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2002, 58, 1400-1406.	2.5	7
62	Peptide Fragmentation by Corona Discharge Induced Electrochemical Ionization. <i>Journal of the American Society for Mass Spectrometry</i> , 2010, 21, 2051-2061.	2.8	7
63	A combined top-down and bottom-up MS approach for the characterization of hemoglobin variants in Rhesus monkeys. <i>Proteomics</i> , 2010, 10, 3657-3668.	2.2	7
64	Electron Capture Dissociation of Hydrogen-Deficient Peptide Radical Cations. <i>Journal of the American Society for Mass Spectrometry</i> , 2012, 23, 1729-1740.	2.8	6
65	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.	0.9	5
66	Middle-down electron capture dissociation and electron transfer dissociation for histone analysis. <i>Journal of Analytical Science and Technology</i> , 2015, 6, .	2.1	3
67	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.	1.5	2