Miloslav Sanda

List of Publications by Year
in descending order

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70 papers	2,243 citations	218677 26 h-index	243625 44 g-index
79 all docs	79 docs citations	79 times ranked	3103 citing authors

#	Article	IF	Citations
1	N- and O-Glycosylation of the SARS-CoV-2 Spike Protein. Analytical Chemistry, 2021, 93, 2003-2009.	6.5	159
2	Hemoglobin Digestion in Blood-Feeding Ticks: Mapping a Multipeptidase Pathway by Functional Proteomics. Chemistry and Biology, 2009, 16, 1053-1063.	6.0	156
3	Direct Polymerase Synthesis of Reactive Aldehydeâ€Functionalized DNA and Its Conjugation and Staining with Hydrazines. Angewandte Chemie - International Edition, 2010, 49, 1064-1066.	13.8	106
4	Site-specific Glycoforms of Haptoglobin in Liver Cirrhosis and Hepatocellular Carcinoma. Molecular and Cellular Proteomics, 2013, 12, 1281-1293.	3.8	104
5	Interlaboratory Study on Differential Analysis of Protein Glycosylation by Mass Spectrometry: The ABRF Glycoprotein Research Multi-Institutional Study 2012. Molecular and Cellular Proteomics, 2013, 12, 2935-2951.	3.8	103
6	Quantitative Liquid Chromatography-Mass Spectrometry-Multiple Reaction Monitoring (LC-MS-MRM) Analysis of Site-specific Glycoforms of Haptoglobin in Liver Disease. Molecular and Cellular Proteomics, 2013, 12, 1294-1305.	3.8	83
7	Matrix-Assisted Laser Desorption Ionization (MALDI)-Time of Flight Mass Spectrometry- and MALDI Biotyper-Based Identification of Cultured Biphenyl-Metabolizing Bacteria from Contaminated Horseradish Rhizosphere Soil. Applied and Environmental Microbiology, 2011, 77, 6858-6866.	3.1	77
8	Community evaluation of glycoproteomics informatics solutions reveals high-performance search strategies for serum glycopeptide analysis. Nature Methods, 2021, 18, 1304-1316.	19.0	74
9	Crystal structure and functional characterization of an immunomodulatory salivary cystatin from the soft tick Ornithodoros moubata. Biochemical Journal, 2010, 429, 103-112.	3.7	73
10	Changes in the proteomes of the hemocytes and fat bodies of the flesh fly Sarcophaga bullata larvae after infection by Escherichia coli. Proteome Science, 2010, 8, 1.	1.7	71
11	Quantitative analysis of immunoglobulin subclasses and subclass specific glycosylation by LCâ€“MSâ€“MRM in liver disease. Journal of Proteomics, 2015, 116, 24-33.	2.4	67
12	Changes in the Glycosylation of Kininogen and the Development of a Kininogen-Based Algorithm for the Early Detection of HCC. Cancer Epidemiology Biomarkers and Prevention, 2017, 26, 795-803.	2.5	48
13	Data Independent Analysis of IgG Glycoforms in Samples of Unfractionated Human Plasma. Analytical Chemistry, 2016, 88, 10118-10125.	6.5	46
14	Quantification of Fucosylated Hemopexin and Complement Factor H in Plasma of Patients with Liver Disease. Analytical Chemistry, 2014, 86, 10716-10723.	6.5	44
15	Synthesis of nucleoside and nucleotide conjugates of bile acids, and polymerase construction of bile acid-functionalized DNA. Organic and Biomolecular Chemistry, 2010, 8, 1194.	2.8	42
16	Targeted methods for quantitative analysis of protein glycosylation. Proteomics - Clinical Applications, 2015, 9, 17-32.	1.6	41
17	Hydrophilic interaction liquid chromatography in the separation of glycopeptides and their isomers. Analytical and Bioanalytical Chemistry, 2018, 410, 5001-5008.	3.7	40
18	Site-Specific Glycan Microheterogeneity of Inter-Alpha-Trypsin Inhibitor Heavy Chain H4. Journal of Proteome Research, 2014, 13, 3314-3329.	3.7	35

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19	Nano reversed phase versus nano hydrophilic interaction liquid chromatography on a chip in the analysis of hemopexin glycopeptides. Journal of Chromatography A, 2017, 1519, 152-155.	3.7	35
20	Quantitative analysis of core fucosylation of serum proteins in liver diseases by LC-MS-MRM. Journal of Proteomics, 2018, 189, 67-74.	2.4	34
21	Hydroxamic Acids As a Novel Family of Serine Racemase Inhibitors: Mechanistic Analysis Reveals Different Modes of Interaction with the Pyridoxal-5â€²-phosphate Cofactor. Journal of Medicinal Chemistry, 2009, 52, 6032-6041.	6.4	33
22	Low Collision Energy Fragmentation in Structure-Specific Glycoproteomics Analysis. Analytical Chemistry, 2020, 92, 8262-8267.	6.5	33
23	Pyrazinium Salts as Efficient Organocatalysts of Mild Oxidations with Hydrogen Peroxide. Advanced Synthesis and Catalysis, 2011, 353, 865-870.	4.3	32
24	Protein and Site Specificity of Fucosylation in Liver-Secreted Glycoproteins. Journal of Proteome Research, 2014, 13, 5561-5569.	3.7	32
25	Non-equivalent Role of Inter- and Intramolecular Hydrogen Bonds in the Insulin Dimer Interface. Journal of Biological Chemistry, 2011, 286, 36968-36977.	3.4	31
26	Insulin Analogues with Modifications at Position B26. Divergence of Binding Affinity and Biological Activity. Biochemistry, 2008, 47, 5858-5868.	2.5	30
27	Site-specific analysis of changes in the glycosylation of proteins in liver cirrhosis using data-independent workflow with soft fragmentation. Analytical and Bioanalytical Chemistry, 2017, 409, 619-627.	3.7	29
28	PD-L1 Glycosylation and Its Impact on Binding to Clinical Antibodies. Journal of Proteome Research, 2021, 20, 485-497.	3.7	29
29	Study of structureâ€dependent chromatographic behavior of glycopeptides using reversed phase nanoLC. Electrophoresis, 2017, 38, 2193-2199.	2.4	26
30	Changes in the expression of N- and O-glycopeptides in patients with colorectal cancer and hepatocellular carcinoma quantified by full-MS scan FT-ICR and multiple reaction monitoring. Journal of Proteomics, 2017, 153, 44-52.	2.4	26
31	Structureâ€“activity relationship of CART (cocaine- and amphetamine-regulated transcript) peptide fragments. Peptides, 2007, 28, 1945-1953.	2.4	25
32	Reactivity of histidine and lysine side-chains with diethylpyrocarbonate â€” A method to identify surface exposed residues in proteins. Journal of Proteomics, 2008, 70, 1091-1097.	2.4	25
33	2-DE analysis of a new human cell line EM-G3 derived from breast cancer progenitor cells and comparison with normal mammary epithelial cells. Proteomics, 2007, 7, 1549-1559.	2.2	21
34	<scp>LCâ€MS</scp>3 quantification of Oâ€glycopeptides in human serum. Electrophoresis, 2013, 34, 2342-4349.	2.4	21
35	Phenotyping breast cancer cell lines EM-G3, HCC1937, MCF7 and MDA-MB-231 using 2-D electrophoresis and affinity chromatography for glutathione-binding proteins. BMC Cancer, 2010, 10, 449.	2.6	19
36	Quantitative Analysis of Sex-Hormone-Binding Globulin Glycosylation in Liver Diseases by Liquid Chromatographyâ€“Mass Spectrometry Parallel Reaction Monitoring. Journal of Proteome Research, 2018, 17, 2755-2766.	3.7	17

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37	N-Glycosylation is required for secretion of the precursor to brain-derived neurotrophic factor (proBDNF) carrying sulfated LacdiNAc structures. Journal of Biological Chemistry, 2019, 294, 16816-16830.	3.4	17
38	The use of Fmoc-Lys(Pac)-OH and penicillin G acylase in the preparation of novel semisynthetic insulin analogs. Journal of Peptide Science, 2007, 13, 334-341.	1.4	16
39	Synthesis of methionine- and norleucine-derived phosphinopeptides. Tetrahedron Letters, 2008, 49, 5629-5631.	1.4	16
40	Two-dimensional electrophoretic comparison of metastatic and non-metastatic human breast tumors using in vitrocultured epithelial cells derived from the cancer tissues. BMC Cancer, 2008, 8, 107.	2.6	16
41	Chemoenzymatic synthesis of glycopeptides bearing rare N-glycan sequences with or without bisecting GlcNAc. Chemical Science, 2018, 9, 8194-8206.	7.4	16
42	Single-Molecule Real-Time (SMRT) Full-Length RNA-Sequencing Reveals Novel and Distinct mRNA Isoforms in Human Bone Marrow Cell Subpopulations. Genes, 2019, 10, 253.	2.4	16
43	Siteâ€specific glycosylation of SARSâ€CoVâ€2: Big challenges in mass spectrometry analysis. Proteomics, 2022, 22, .	2.2	16
44	Mapping the peptide and protein immune response in the larvae of the fleshfly Sarcophaga bullata. Journal of Peptide Science, 2008, 14, 670-682.	1.4	15
45	Efficient synthesis of phosphonodepsipeptides derived from norleucine. Tetrahedron, 2009, 65, 6090-6103.	1.9	14
46	Synthesis and structural studies of flavin and alloxazine adducts with O-nucleophiles. Journal of Molecular Structure, 2011, 1004, 178-187.	3.6	14
47	Profiling and characterization of volatile secretions from the European stink bug Graphosoma lineatum (Heteroptera: Pentatomidae) by two-dimensional gas chromatography/time-of-flight mass spectrometry. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2012, 881-882, 69-75.	2.3	14
48	Enzymatic activity and immunoreactivity of Aca s 4, an alpha-amylase allergen from the storage mite Acarus siro. BMC Biochemistry, 2012, 13, 3.	4.4	14
49	Optimized Fragmentation for Quantitative Analysis of Fucosylated N-Glycoproteins by LC-MS-MRM. Analytical Chemistry, 2019, 91, 9206-9212.	6.5	14
50	Comparative proteomic analysis of serum from nonhuman primates administered BIO 300: a promising radiation countermeasure. Scientific Reports, 2020, 10, 19343.	3.3	14
51	Crystallization and diffraction analysis of the serpin IRS-2 from the hard tick Ixodes ricinus. Acta Crystallographica Section F: Structural Biology Communications, 2010, 66, 1453-1457.	0.7	13
52	2-DE analysis of breast cancer cell lines 1833 and 4175 with distinct metastatic organ-specific potentials: comparison with parental cell line MDA-MB-231. Oncology Reports, 2008, 19, 1237-44.	2.6	13
53	Increased sialylation of site specific O-glycoforms of hemopexin in liver disease. Clinical Proteomics, 2016, 13, 24.	2.1	12
54	Structureâ^'Activity Study of New Inhibitors of Human Betaine-Homocysteine S-Methyltransferase. Journal of Medicinal Chemistry, 2009, 52, 3652-3665.	6.4	10

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55	Synthesis of norleucine-derived phosphonopeptides. Tetrahedron Letters, 2008, 49, 4366-4368.	1.4	9
56	2-DE analysis of breast cancer cell lines 1833 and 4175 with distinct metastatic organ-specific potentials: Comparison with parental cell line MDA-MB-231. Oncology Reports, 0, , .	2.6	9
57	Evidence for the presence of proteolytically active secreted aspartic proteinase 1 of Candida parapsilosis in the cell wall. Protein Science, 2011, 20, 2004-2012.	7.6	8
58	Analysis of site and structure specific core fucosylation in liver cirrhosis using exoglycosidase-assisted data-independent LC-MS/MS. Scientific Reports, 2021, 11, 23273.	3.3	6
59	Synthesis of N-Succinyl-L,L-Diaminopimelic Acid Mimetics Via Selective Protection. Protein and Peptide Letters, 2010, 17, 405-409.	0.9	5
60	Singleâ€•and Doubleâ€Headed Chemical Probes for Detection of Active Cathepsin D in a Cancer Cell Proteome. ChemBioChem, 2010, 11, 1538-1541.	2.6	5
61	Attenuation of vaccinia virus by the expression of human Flt3 ligand. Virology Journal, 2010, 7, 109.	3.4	4
62	A click chemistry approach to identify protein targets of cancer chemopreventive phenethyl isothiocyanate. RSC Advances, 2014, 4, 3920-3923.	3.6	4
63	Synthesis of Î±-carboxyphosphinopeptides derived from norleucine. Amino Acids, 2010, 39, 1265-1280.	2.7	3
64	Glycoforms of human prostateâ€specific membrane antigen (PSMA) in human cells and prostate tissue. Prostate, 2022, 82, 132-144.	2.3	3
65	Antibacterial effect of compounds of peptide nature contained in aqueous extract of Brassica napus and Solanum lycopersicum and Tetragonia tetragonioides leaves. Journal of Microbiology, Biotechnology and Food Sciences, 2015, 04, 427-433.	0.8	2
66	A Rapid LC-MS/MS-PRM Assay for Serologic Quantification of Sialylated O-HPX Glycoforms in Patients with Liver Fibrosis. Molecules, 2022, 27, 2213.	3.8	2
67	Isolation of antimicrobial peptides and proteins from tomato. , 2011, , .		1
68	Purification and characterization of antimicrobial peptides from fleshfly Neobellieria bullata. Journal of Biotechnology, 2010, 150, 451-452.	3.8	0
69	Peptides with antimicrobial activity isolated from larvae of the flesh fly Neobellieria bullata. , 2009, , .		0
70	Larvae of flesh fly Neobellieria bullata as a source for novel antimicrobial peptides. , 2011, , .		0