

Akos Vegvari

List of Publications by Citations

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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.

107
papers

2,177
citations

25
h-index

41
g-index

122
ext. papers

2,590
ext. citations

5.8
avg, IF

4.64
L-index

#	Paper	IF	Citations
107	Multiple sclerosis: Identification and clinical evaluation of novel CSF biomarkers. <i>Journal of Proteomics</i> , 2010 , 73, 1117-32	3.9	112
106	Dysregulation in Akt/mTOR/HIF-1 signaling identified by proteo-transcriptomics of SARS-CoV-2 infected cells. <i>Emerging Microbes and Infections</i> , 2020 , 9, 1748-1760	18.9	108
105	Drug localization in different lung cancer phenotypes by MALDI mass spectrometry imaging. <i>Journal of Proteomics</i> , 2011 , 74, 982-92	3.9	94
104	Chiral separation of amino acids by ligand-exchange capillary electrochromatography using continuous beds. <i>Electrophoresis</i> , 2000 , 21, 3141-4	3.6	93
103	A new easy-to-prepare homogeneous continuous electrochromatographic bed for enantiomer recognition. <i>Electrophoresis</i> , 2000 , 21, 3116-25	3.6	86
102	SC-23 * THE ROLE OF SINGLE AMINO ACID POLYMORPHISMS IN GLIOMA STEM CELL PHENOTYPES. <i>Neuro-Oncology</i> , 2014 , 16, v202-v202	1	78
101	(Normal-phase) capillary chromatography using acrylic polymer-based continuous beds. <i>Journal of Chromatography A</i> , 1999 , 837, 25-33	4.5	62
100	Enantioseparation of hydroxy acids on easy-to-prepare continuous beds for capillary electrochromatography. <i>Electrophoresis</i> , 2001 , 22, 2616-9	3.6	58
99	Direct demonstration of tissue uptake of an inhaled drug: proof-of-principle study using matrix-assisted laser desorption ionization mass spectrometry imaging. <i>Analytical Chemistry</i> , 2011 , 83, 8329-36	7.8	57
98	Chiral separation of alpha-amino acids by ligand-exchange capillary electrophoresis using N-(2-hydroxy-octyl)-L-4-hydroxyproline as a selector. <i>Electrophoresis</i> , 1998 , 19, 2109-12	3.6	55
97	Relationship between HMF intake and SMF formation in vivo: An animal and human study. <i>Molecular Nutrition and Food Research</i> , 2017 , 61, 1600773	5.9	52
96	Quest for Missing Proteins: Update 2015 on Chromosome-Centric Human Proteome Project. <i>Journal of Proteome Research</i> , 2015 , 14, 3415-31	5.6	50
95	Limited Tumor Tissue Drug Penetration Contributes to Primary Resistance against Angiogenesis Inhibitors. <i>Theranostics</i> , 2017 , 7, 400-412	12.1	49
94	Developments in biobanking workflow standardization providing sample integrity and stability. <i>Journal of Proteomics</i> , 2013 , 95, 38-45	3.9	45
93	Standardization and utilization of biobank resources in clinical protein science with examples of emerging applications. <i>Journal of Proteome Research</i> , 2012 , 11, 5124-34	5.6	41
92	Biobank resources for future patient care: developments, principles and concepts. <i>Journal of Clinical Bioinformatics</i> , 2011 , 1, 24		37
91	New set-up for capillary isoelectric focusing in uncoated capillaries. <i>Journal of Chromatography A</i> , 1998 , 813, 349-60	4.5	36

90	Identification of a novel proteoform of prostate specific antigen (SNP-L132I) in clinical samples by multiple reaction monitoring. <i>Molecular and Cellular Proteomics</i> , 2013 , 12, 2761-73	7.6	34
89	Identification of novel candidate protein biomarkers for the post-polio syndrome - implications for diagnosis, neurodegeneration and neuroinflammation. <i>Journal of Proteomics</i> , 2009 , 71, 670-81	3.9	32
88	Essential tactics of tissue preparation and matrix nano-spotting for successful compound imaging mass spectrometry. <i>Journal of Proteomics</i> , 2010 , 73, 1270-8	3.9	32
87	Development of an MRM assay panel with application to biobank samples from patients with myocardial infarction. <i>Journal of Proteomics</i> , 2013 , 87, 16-25	3.9	31
86	Universal method for synthesis of artificial gel antibodies by the imprinting approach combined with a unique electrophoresis technique for detection of minute structural differences of proteins, viruses, and cells (bacteria). III: gel antibodies against cells (bacteria). <i>Electrophoresis</i> , 2006 , 27, 4682-7	3.6	31
85	Clinical protein science and bioanalytical mass spectrometry with an emphasis on lung cancer. <i>Chemical Reviews</i> , 2010 , 110, 3278-98	68.1	30
84	A hybrid microdevice for electrophoresis and electrochromatography using UV detection. <i>Electrophoresis</i> , 2002 , 23, 3479-86	3.6	28
83	Tripeptide interference with human immunodeficiency virus type 1 morphogenesis. <i>Antimicrobial Agents and Chemotherapy</i> , 2002 , 46, 3597-605	5.9	27
82	A new look at drugs targeting malignant melanoma--an application for mass spectrometry imaging. <i>Proteomics</i> , 2014 , 14, 1963-70	4.8	25
81	Large scale biobanking of blood - the importance of high density sample processing procedures. <i>Journal of Proteomics</i> , 2012 , 76 Spec No., 116-24	3.9	24
80	Universal method for synthesis of artificial gel antibodies by the imprinting approach combined with a unique electrophoresis technique for detection of minute structural differences of proteins, viruses and cells (bacteria). Ib. Gel antibodies against proteins (hemoglobins). <i>Electrophoresis</i> , 2007 , 28, 2345-50	3.6	24
79	Localization of sunitinib, its metabolites and its target receptors in tumour-bearing mice: a MALDI-MS imaging study. <i>British Journal of Pharmacology</i> , 2015 , 172, 1148-63	8.6	23
78	Aptamer/ISET-MS: a new affinity-based MALDI technique for improved detection of biomarkers. <i>Analytical Chemistry</i> , 2014 , 86, 7627-34	7.8	23
77	Hybrid microdevice electrophoresis of peptides, proteins, DNA, viruses, and bacteria in various separation media, using UV-detection. <i>Electrophoresis</i> , 2003 , 24, 3815-20	3.6	23
76	Integrated chromosome 19 transcriptomic and proteomic data sets derived from glioma cancer stem-cell lines. <i>Journal of Proteome Research</i> , 2014 , 13, 191-9	5.6	21
75	Association of chromosome 19 to lung cancer genotypes and phenotypes. <i>Cancer and Metastasis Reviews</i> , 2015 , 34, 217-26	9.6	21
74	Determination of dissociation constants between polyelectrolytes and proteins by affinity capillary electrophoresis. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2009 , 877, 892-6	3.2	21
73	Localization of tamoxifen in human breast cancer tumors by MALDI mass spectrometry imaging. <i>Clinical and Translational Medicine</i> , 2016 , 5, 10	5.7	20

72	Understanding drug uptake and binding within targeted disease micro-environments in patients: a new tool for translational medicine. <i>Clinical and Translational Medicine</i> , 2012 , 1, 8	5.7	20
71	Cell-type-resolved quantitative proteomics map of interferon response against SARS-CoV-2. <i>iScience</i> , 2021 , 24, 102420	6.1	20
70	Drug compound characterization by mass spectrometry imaging in cancer tissue. <i>Archives of Pharmacal Research</i> , 2015 , 38, 1718-27	6.1	19
69	Systematic identification of single amino acid variants in glioma stem-cell-derived chromosome 19 proteins. <i>Journal of Proteome Research</i> , 2015 , 14, 778-86	5.6	19
68	A critical evaluation of inflammatory markers in Huntington's Disease plasma. <i>Journal of Huntington's Disease</i> , 2013 , 2, 125-34	1.9	19
67	Identification of prostate-specific antigen (PSA) isoforms in complex biological samples utilizing complementary platforms. <i>Journal of Proteomics</i> , 2010 , 73, 1137-47	3.9	19
66	Stable homogeneous gel for molecular-sieving of DNA fragments in capillary electrophoresis. <i>Journal of Chromatography A</i> , 2002 , 960, 221-7	4.5	19
65	Molecular microheterogeneity of prostate specific antigen in seminal fluid by mass spectrometry. <i>Clinical Biochemistry</i> , 2012 , 45, 331-8	3.5	17
64	Experimental models to study drug distributions in tissue using MALDI mass spectrometry imaging. <i>Journal of Proteome Research</i> , 2013 , 12, 5626-33	5.6	17
63	Use of ENCODE resources to characterize novel proteoforms and missing proteins in the human proteome. <i>Journal of Proteome Research</i> , 2015 , 14, 603-8	5.6	16
62	Chromosome 19 annotations with disease speciation: a first report from the Global Research Consortium. <i>Journal of Proteome Research</i> , 2013 , 12, 135-50	5.6	16
61	Metabolic Perturbation Associated With COVID-19 Disease Severity and SARS-CoV-2 Replication. <i>Molecular and Cellular Proteomics</i> , 2021 , 20, 100159	7.6	16
60	ProTargetMiner as a proteome signature library of anticancer molecules for functional discovery. <i>Nature Communications</i> , 2019 , 10, 5715	17.4	16
59	System-wide identification and prioritization of enzyme substrates by thermal analysis. <i>Nature Communications</i> , 2021 , 12, 1296	17.4	16
58	Establishing a Southern Swedish Malignant Melanoma OMICS and biobank clinical capability. <i>Clinical and Translational Medicine</i> , 2013 , 2, 7	5.7	15
57	Isotope labeled internal standards (ILIS) as a basis for quality control in clinical studies using plasma samples. <i>Journal of Proteomics</i> , 2010 , 73, 1219-29	3.9	15
56	Novel insights in drug metabolism by MS imaging. <i>Bioanalysis</i> , 2016 , 8, 575-88	2.1	14
55	Moving towards high density clinical signature studies with a human proteome catalogue developing multiplexing mass spectrometry assay panels. <i>Journal of Clinical Bioinformatics</i> , 2011 , 1, 7		14

54	MRM assay for quantitation of complement components in human blood plasma - a feasibility study on multiple sclerosis. <i>Journal of Proteomics</i> , 2011 , 75, 211-20	3.9	14
53	Theoretical and nomenclatural considerations of capillary electrochromatography with monolithic stationary phases. <i>Electrophoresis</i> , 2006 , 27, 716-25	3.6	14
52	Homogeneous gels for capillary electrochromatography. <i>Journal of Chromatography A</i> , 2005 , 1079, 50-84.5	4.5	14
51	Utility of Proteomics in Emerging and Re-Emerging Infectious Diseases Caused by RNA Viruses. <i>Journal of Proteome Research</i> , 2020 , 19, 4259-4274	5.6	14
50	Localization of sunitinib in in vivo animal and in vitro experimental models by MALDI mass spectrometry imaging. <i>Analytical and Bioanalytical Chemistry</i> , 2015 , 407, 2245-53	4.4	13
49	Deuteration of human carbonic anhydrase for neutron crystallography: Cell culture media, protein thermostability, and crystallization behavior. <i>Archives of Biochemistry and Biophysics</i> , 2018 , 645, 26-33	4.1	13
48	Correlation queries for mass spectrometry imaging. <i>Analytical Chemistry</i> , 2013 , 85, 4398-404	7.8	13
47	Blood plasma reference material: a global resource for proteomic research. <i>Journal of Proteome Research</i> , 2013 , 12, 3087-92	5.6	12
46	Studies on citrullinated LL-37: detection in human airways, antibacterial effects and biophysical properties. <i>Scientific Reports</i> , 2020 , 10, 2376	4.9	12
45	Current status of clinical proteogenomics in lung cancer. <i>Expert Review of Proteomics</i> , 2019 , 16, 761-772	4.2	11
44	Drug localizations in tissue by mass spectrometry imaging. <i>Biomarkers in Medicine</i> , 2015 , 9, 869-76	2.3	10
43	Queries of MALDI-imaging global datasets identifying ion mass signatures associated with tissue compartments. <i>Proteomics</i> , 2014 , 14, 862-71	4.8	10
42	In Vitro Transcription/Translation System: A Versatile Tool in the Search for Missing Proteins. <i>Journal of Proteome Research</i> , 2015 , 14, 3441-51	5.6	9
41	Quantification of human kallikrein-2 in clinical samples by selected reaction monitoring. <i>Journal of Proteome Research</i> , 2013 , 12, 4612-6	5.6	9
40	Activity of the small modified amino acid alpha-hydroxy glycineamide on in vitro and in vivo human immunodeficiency virus type 1 capsid assembly and infectivity. <i>Antimicrobial Agents and Chemotherapy</i> , 2008 , 52, 3737-44	5.9	9
39	Type-I interferon signatures in SARS-CoV-2 infected Huh7 cells. <i>Cell Death Discovery</i> , 2021 , 7, 114	6.9	9
38	Large Scale Identification of Variant Proteins in Glioma Stem Cells. <i>ACS Chemical Neuroscience</i> , 2018 , 9, 73-79	5.7	8
37	Mutant Proteogenomics. <i>Advances in Experimental Medicine and Biology</i> , 2016 , 926, 77-91	3.6	7

36	Isolation and characterization of a small antiretroviral molecule affecting HIV-1 capsid morphology. <i>Retrovirology</i> , 2009 , 6, 34	3.6	6
35	High-resolution capillary zone and gel electrophoresis of structurally similar amphipathic glutathione conjugates based on interaction with beta-cyclodextrins. <i>ChemBioChem</i> , 2002 , 3, 1117-25	3.8	6
34	The one-carbon pool controls mitochondrial energy metabolism via complex I and iron-sulfur clusters. <i>Science Advances</i> , 2021 , 7,	14.3	6
33	Malondialdehyde Conjugated With Albumin Induces Pro-Inflammatory Activation of T Cells Isolated From Human Atherosclerotic Plaques Both Directly and Via Dendritic Cell-Mediated Mechanism. <i>JACC Basic To Translational Science</i> , 2019 , 4, 480-494	8.7	5
32	Inflammatory markers in Huntington's disease plasma: a robust nanoLC-MRM-MS assay development. <i>EuPA Open Proteomics</i> , 2014 , 3, 68-75	0.1	5
31	State-of-the-art MS technology applications in lung disease. <i>Bioanalysis</i> , 2011 , 3, 2665-77	2.1	5
30	Assessing microenvironment compartments in formalin-fixed paraffin-embedded tissues by protein expression analysis. <i>Bioanalysis</i> , 2013 , 5, 2647-59	2.1	4
29	Tropism of SARS-CoV-2 in commonly used laboratory cell lines and their proteomic landscape during infection		4
28	Mutant Proteomics of Lung Adenocarcinomas Harboring Different Mutations. <i>Frontiers in Oncology</i> , 2020 , 10, 1494	5.3	4
27	S100A6 is a critical regulator of hematopoietic stem cells. <i>Leukemia</i> , 2020 , 34, 3323-3337	10.7	3
26	Implementation of a protein profiling platform developed as an academic-pharmaceutical industry collaborative effort. <i>Electrophoresis</i> , 2008 , 29, 2696-705	3.6	3
25	Chapter 3 Peptide and protein separations by capillary electrophoresis and electrochromatography. <i>Comprehensive Analytical Chemistry</i> , 2005 , 46, 149-252	1.9	3
24	2 Evolution and development of isoelectric focusing. <i>Separation Science and Technology</i> , 2005 , 7, 13-39	1.7	3
23	Trans cohort metabolic reprogramming towards glutaminolysis in long-term successfully treated HIV-infection.. <i>Communications Biology</i> , 2022 , 5, 27	6.7	3
22	Implications of central carbon metabolism in SARS-CoV-2 replication and disease severity		3
21	Mass Spectrometry, Structural Analysis, and Anti-Inflammatory Properties of Photo-Cross-Linked Human Albumin Hydrogels.. <i>ACS Applied Bio Materials</i> , 2022 ,	4.1	3
20	International biobanking for lung cancer and COPD as the future resource for clinical protein research. <i>EuPA Open Proteomics</i> , 2013 , 1, 3-7	0.1	2
19	Bioinformatic strategies for unambiguous identification of prostate specific antigen in clinical samples. <i>Journal of Proteomics</i> , 2011 , 75, 202-10	3.9	2

18	Cancer Phenotype Diagnosis and Drug Efficacy within Japanese Health Care. <i>International Journal of Proteomics</i> , 2012 , 2012, 921901		2
17	Chapter 10 Technologies interfacing capillary electrophoresis to mass spectrometry. <i>Comprehensive Analytical Chemistry</i> , 2005 , 46, 449-485	1.9	2
16	In vivo Distribution of Tiotropium in a Rodent Model Utilizing AP-SMALDI Mass Spectrometry Imaging. <i>Current Analytical Chemistry</i> , 2017 , 13, 182-186	1.7	2
15	Type-I interferon signatures in SARS-CoV-2 infected Huh7 cells		2
14	Standardization developments for large scale biobanks in smoking related diseases - a model system for blood sample processing and storage. <i>Translational Respiratory Medicine</i> , 2013 , 1, 14		1
13	General approach for certain quantitative calculations for instance of the variance of reversible adsorption to the capillary wall in CE. <i>Analytical Chemistry</i> , 2009 , 81, 343-8	7.8	1
12	Clinical proteomics. <i>International Journal of Proteomics</i> , 2012 , 2012, 641491		1
11	Integrative proteo-transcriptomic and immunophenotyping signatures of HIV-1 elite control phenotype: A cross-talk between glycolysis and HIF signaling.. <i>IScience</i> , 2022 , 25, 103607	6.1	0
10	Nucleoside-modified mRNA vaccines protect IFNAR mice against Crimean Congo hemorrhagic fever virus infection. <i>Journal of Virology</i> , 2021 , JVI0156821	6.6	0
9	Single Cell Proteomics Using Multiplexed Isobaric Labeling for Mass Spectrometric Analysis. <i>Methods in Molecular Biology</i> , 2022 , 2386, 113-127	1.4	0
8	Cytotoxic Lymphocytes Target HIV-1 Gag Through Granzyme M-Mediated Cleavage. <i>Frontiers in Immunology</i> , 2021 , 12, 669347	8.4	0
7	Coordinated pyruvate kinase activity is crucial for metabolic adaptation and cell survival during mitochondrial dysfunction. <i>Human Molecular Genetics</i> , 2021 , 30, 2012-2026	5.6	0
6	Clinical and Biomedical Mass Spectrometry: New Frontiers in Drug Developments and Diagnosis. <i>Translational Bioinformatics</i> , 2013 , 169-185		
5	Identification of Missing Proteins: Toward the Completion of Human Proteome. <i>Translational Bioinformatics</i> , 2014 , 7-18		
4	Citrullination Alters the Antibacterial and Anti-Inflammatory Functions of the Host Defense Peptide Canine Cathelicidin K9CATH In Vitro. <i>Journal of Immunology</i> , 2021 , 207, 974-984	5.3	
3	Mass Spectrometry-Based Analytical Strategy for Single-Cell Proteomics.. <i>Methods in Molecular Biology</i> , 2022 , 2420, 63-72	1.4	
2	Peripheral blood CD4CCR6 compartment differentiates HIV-1 infected or seropositive elite controllers from long-term successfully treated individuals.. <i>Communications Biology</i> , 2022 , 5, 357	6.7	
1	Hepatocyte Thorns, A Novel Drug-Induced Stress Response in Human and Mouse Liver Spheroids. <i>Cells</i> , 2022 , 11, 1597	7.9	

