

Miklos Guttman

List of Publications by Year in Descending Order

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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.

57
papers

3,013
citations

27
h-index

54
g-index

60
ext. papers

3,888
ext. citations

10.9
avg, IF

4.96
L-index

#	Paper	IF	Citations
57	Simple Platform for Automating Decoupled LC-MS Analysis of Hydrogen/Deuterium Exchange Samples. <i>Journal of the American Society for Mass Spectrometry</i> , 2021 , 32, 597-600	3.5	6
56	Linkage Memory in Underivatized Protonated Carbohydrates. <i>Journal of the American Society for Mass Spectrometry</i> , 2021 , 32, 581-589	3.5	4
55	Quadrivalent influenza nanoparticle vaccines induce broad protection. <i>Nature</i> , 2021 , 592, 623-628	50.4	40
54	Rapid Assessment of Pepsin Column Activity for Reliable HDX-MS Studies. <i>Journal of the American Society for Mass Spectrometry</i> , 2021 , 32, 2386-2390	3.5	1
53	Advances in Hydrogen/Deuterium Exchange Mass Spectrometry and the Pursuit of Challenging Biological Systems. <i>Chemical Reviews</i> , 2021 ,	68.1	13
52	High-Precision, Gas-Phase Hydrogen/Deuterium-Exchange Kinetics by Mass Spectrometry Enabled by Exchange Standards. <i>Analytical Chemistry</i> , 2020 , 92, 7725-7732	7.8	2
51	Structural monitoring of a transient intermediate in the hemagglutinin fusion machinery on influenza virions. <i>Science Advances</i> , 2020 , 6, eaaz8822	14.3	13
50	Parallel Chemoselective Profiling for Mapping Protein Structure. <i>Cell Chemical Biology</i> , 2020 , 27, 1084-1096.e42	10.6	4
49	Elicitation of potent neutralizing antibody responses by designed protein nanoparticle vaccines for SARS-CoV-2 2020 ,		10
48	Imidazolium Compounds as Internal Exchange Reporters for Hydrogen/Deuterium Exchange by Mass Spectrometry. <i>Analytical Chemistry</i> , 2020 , 92, 9830-9837	7.8	4
47	Elicitation of Potent Neutralizing Antibody Responses by Designed Protein Nanoparticle Vaccines for SARS-CoV-2. <i>Cell</i> , 2020 , 183, 1367-1382.e17	56.2	217
46	The influence of proline isomerization on potency and stability of anti-HIV antibody 10E8. <i>Scientific Reports</i> , 2020 , 10, 14313	4.9	5
45	Hypothalamic perineuronal net assembly is required for sustained diabetes remission induced by fibroblast growth factor 1 in rats. <i>Nature Metabolism</i> , 2020 , 2, 1025-1033	14.6	11
44	Probing the Stability of Proline Cis/Trans Isomers in the Gas Phase with Ultraviolet Photodissociation. <i>Journal of the American Society for Mass Spectrometry</i> , 2020 , 31, 1974-1980	3.5	7
43	Rapid Differentiation of Chondroitin Sulfate Isomers by Gas-phase Hydrogen-deuterium Exchange. <i>Current Molecular Medicine</i> , 2020 , 20, 821-827	2.5	0
42	Quantitative analysis of chondroitin sulfate disaccharides from human and rodent fixed brain tissue by electrospray ionization-tandem mass spectrometry. <i>Glycobiology</i> , 2019 , 29, 847-860	5.8	9
41	Recommendations for performing, interpreting and reporting hydrogen deuterium exchange mass spectrometry (HDX-MS) experiments. <i>Nature Methods</i> , 2019 , 16, 595-602	21.6	216

40	Tracking Higher Order Protein Structure by Hydrogen-Deuterium Exchange Mass Spectrometry. <i>Protein and Peptide Letters</i> , 2019 , 26, 16-26	1.9	13
39	Interplay of disordered and ordered regions of a human small heat shock protein yields an ensemble of 'quasi-ordered' states. <i>ELife</i> , 2019 , 8,	8.9	23
38	Structure-Activity Relationships for CYP4B1 Bioactivation of 4-Ipomeanol Congeners: Direct Correlation between Cytotoxicity and Trapped Reactive Intermediates. <i>Chemical Research in Toxicology</i> , 2019 , 32, 2488-2498	4	4
37	The ubiquitin ligase SspH1 from uses a modular and dynamic E3 domain to catalyze substrate ubiquitylation. <i>Journal of Biological Chemistry</i> , 2019 , 294, 783-793	5.4	2
36	Conformational dynamics of P-glycoprotein in lipid nanodiscs and detergent micelles reveal complex motions on a wide time scale. <i>Journal of Biological Chemistry</i> , 2018 , 293, 6297-6307	5.4	27
35	Bridging the structural gap of glycoproteomics with ion mobility spectrometry. <i>Current Opinion in Chemical Biology</i> , 2018 , 42, 86-92	9.7	11
34	Dissection of Fragmentation Pathways in Protonated N-Acetylhexosamines. <i>Analytical Chemistry</i> , 2018 , 90, 11883-11891	7.8	5
33	Gas-Phase Hydrogen/Deuterium Exchange for Distinguishing Isomeric Carbohydrate Ions. <i>Analytical Chemistry</i> , 2017 , 89, 4737-4742	7.8	24
32	Improving the Immunogenicity of Native-like HIV-1 Envelope Trimers by Hyperstabilization. <i>Cell Reports</i> , 2017 , 20, 1805-1817	10.6	112
31	Extracellular Matrix Proteins Mediate HIV-1 gp120 Interactions with α Journal of Virology, 2017 , 91,	6.6	6
30	Isotope Labeling of Biomolecules: Structural Analysis of Viruses by HDX-MS. <i>Methods in Enzymology</i> , 2016 , 566, 405-26	1.7	20
29	Epitope-Independent Purification of Native-Like Envelope Trimers from Diverse HIV-1 Isolates. <i>Journal of Virology</i> , 2016 , 90, 9471-82	6.6	31
28	The Myeloablative Drug Busulfan Converts Cysteine to Dehydroalanine and Lanthionine in Redoxins. <i>Biochemistry</i> , 2016 , 55, 4720-30	3.2	8
27	Tuning a High Transmission Ion Guide to Prevent Gas-Phase Proton Exchange During H/D Exchange MS Analysis. <i>Journal of the American Society for Mass Spectrometry</i> , 2016 , 27, 662-8	3.5	29
26	Membrane Interactions, Ligand-Dependent Dynamics, and Stability of Cytochrome P4503A4 in Lipid Nanodiscs. <i>Biochemistry</i> , 2016 , 55, 1058-69	3.2	30
25	Structures of HIV-1 Env V1V2 with broadly neutralizing antibodies reveal commonalities that enable vaccine design. <i>Nature Structural and Molecular Biology</i> , 2016 , 23, 81-90	17.6	126
24	Sequential and Simultaneous Immunization of Rabbits with HIV-1 Envelope Glycoprotein SOSIP.664 Trimers from Clades A, B and C. <i>PLoS Pathogens</i> , 2016 , 12, e1005864	7.6	101
23	Probing the Impact of Local Structural Dynamics of Conformational Epitopes on Antibody Recognition. <i>Biochemistry</i> , 2016 , 55, 2197-213	3.2	19

22	Site-Specific Mapping of Sialic Acid Linkage Isomers by Ion Mobility Spectrometry. <i>Analytical Chemistry</i> , 2016 , 88, 5212-7	7.8	52
21	Somatic Hypermutation-Induced Changes in the Structure and Dynamics of HIV-1 Broadly Neutralizing Antibodies. <i>Structure</i> , 2016 , 24, 1346-1357	5.2	29
20	Changes in Structure and Antigenicity of HIV-1 Env Trimers Resulting from Removal of a Conserved CD4 Binding Site-Proximal Glycan. <i>Journal of Virology</i> , 2016 , 90, 9224-36	6.6	22
19	Iterative structure-based improvement of a fusion-glycoprotein vaccine against RSV. <i>Nature Structural and Molecular Biology</i> , 2016 , 23, 811-820	17.6	76
18	HIV-1 VACCINES. HIV-1 neutralizing antibodies induced by native-like envelope trimers. <i>Science</i> , 2015 , 349, aac4223	33.3	394
17	Crystal structure, conformational fixation and entry-related interactions of mature ligand-free HIV-1 Env. <i>Nature Structural and Molecular Biology</i> , 2015 , 22, 522-31	17.6	254
16	Comparative glycoprofiling of HIV gp120 immunogens by capillary electrophoresis and MALDI mass spectrometry. <i>Electrophoresis</i> , 2015 , 36, 1305-13	3.6	12
15	Dynamic changes during acid-induced activation of influenza hemagglutinin. <i>Structure</i> , 2015 , 23, 665-76	5.2	51
14	Local and global structural drivers for the photoactivation of the orange carotenoid protein. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, E5567-74	11.5	86
13	Influences on the Design and Purification of Soluble, Recombinant Native-Like HIV-1 Envelope Glycoprotein Trimers. <i>Journal of Virology</i> , 2015 , 89, 12189-210	6.6	66
12	Complementary Approaches to Dissecting Mechanisms of Protein-mediated Membrane Fusion. <i>Microscopy and Microanalysis</i> , 2015 , 21, 1279-1280	0.5	
11	Immunogenicity of Stabilized HIV-1 Envelope Trimers with Reduced Exposure of Non-neutralizing Epitopes. <i>Cell</i> , 2015 , 163, 1702-15	56.2	251
10	Antibody potency relates to the ability to recognize the closed, pre-fusion form of HIV Env. <i>Nature Communications</i> , 2015 , 6, 6144	17.4	101
9	Control of RecBCD enzyme activity by DNA binding- and Chi hotspot-dependent conformational changes. <i>Journal of Molecular Biology</i> , 2014 , 426, 3479-99	6.5	29
8	CD4-induced activation in a soluble HIV-1 Env trimer. <i>Structure</i> , 2014 , 22, 974-84	5.2	101
7	Analysis of overlapped and noisy hydrogen/deuterium exchange mass spectra. <i>Journal of the American Society for Mass Spectrometry</i> , 2013 , 24, 1906-12	3.5	114
6	All-atom ensemble modeling to analyze small-angle x-ray scattering of glycosylated proteins. <i>Structure</i> , 2013 , 21, 321-31	5.2	68
5	A functional interaction between gp41 and gp120 is observed for monomeric but not oligomeric, uncleaved HIV-1 Env gp140. <i>Journal of Virology</i> , 2013 , 87, 11462-75	6.6	33

4	Isolate-specific differences in the conformational dynamics and antigenicity of HIV-1 gp120. <i>Journal of Virology</i> , 2013 , 87, 10855-73	6.6	25
3	Solution structure, conformational dynamics, and CD4-induced activation in full-length, glycosylated, monomeric HIV gp120. <i>Journal of Virology</i> , 2012 , 86, 8750-64	6.6	55
2	Tracking hydrogen/deuterium exchange at glycan sites in glycoproteins by mass spectrometry. <i>Analytical Chemistry</i> , 2011 , 83, 7492-9	7.8	42
1	Interplay of disordered and ordered regions of a human small heat shock protein yields an ensemble of quasi-ordered states		1