

David Falck

List of Publications by Year in descending order

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46
papers

1,802
citations

331670

21
h-index

289244

40
g-index

49
all docs

49
docs citations

49
times ranked

2325
citing authors

#	ARTICLE	IF	CITATIONS
1	IgA subclasses have different effector functions associated with distinct glycosylation profiles. <i>Nature Communications</i> , 2020, 11, 120.	12.8	141
2	Glycosylation of Immunoglobulin G Associates With Clinical Features of Inflammatory Bowel Diseases. <i>Gastroenterology</i> , 2018, 154, 1320-1333.e10.	1.3	116
3	Comparison of methods for the analysis of therapeutic immunoglobulin G Fc-glycosylation profiles—Part 2: Mass spectrometric methods. <i>MAbs</i> , 2015, 7, 732-742.	5.2	114
4	LaCyTools: A Targeted Liquid Chromatography–Mass Spectrometry Data Processing Package for Relative Quantitation of Glycopeptides. <i>Journal of Proteome Research</i> , 2016, 15, 2198-2210.	3.7	114
5	Linkage-Specific Sialic Acid Derivatization for MALDI-TOF-MS Profiling of IgG Glycopeptides. <i>Analytical Chemistry</i> , 2015, 87, 8284-8291.	6.5	112
6	MassyTools: A High-Throughput Targeted Data Processing Tool for Relative Quantitation and Quality Control Developed for Glycomic and Glycoproteomic MALDI-MS. <i>Journal of Proteome Research</i> , 2015, 14, 5088-5098.	3.7	107
7	FcγR Binding and ADCC Activity of Human IgG Allotypes. <i>Frontiers in Immunology</i> , 2020, 11, 740.	4.8	101
8	Highly sensitive CE-ESI-MS analysis of N-glycans from complex biological samples. <i>Nature Communications</i> , 2019, 10, 2137.	12.8	90
9	NIST Interlaboratory Study on Glycosylation Analysis of Monoclonal Antibodies: Comparison of Results from Diverse Analytical Methods. <i>Molecular and Cellular Proteomics</i> , 2020, 19, 11-30.	3.8	87
10	Monitoring of immunoglobulin N- and O-glycosylation in health and disease. <i>Glycobiology</i> , 2020, 30, 226-240.	2.5	75
11	High-Throughput Analysis of IgG Fc Glycopeptides by LC-MS. <i>Methods in Molecular Biology</i> , 2017, 1503, 31-47.	0.9	73
12	Mass spectrometry for glycosylation analysis of biopharmaceuticals. <i>TrAC - Trends in Analytical Chemistry</i> , 2015, 73, 1-9.	11.4	67
13	Dopant Enriched Nitrogen Gas Combined with Sheathless Capillary Electrophoresis–Electrospray Ionization-Mass Spectrometry for Improved Sensitivity and Repeatability in Glycopeptide Analysis. <i>Analytical Chemistry</i> , 2016, 88, 5849-5856.	6.5	60
14	Pregnancy-associated serum N-glycome changes studied by high-throughput MALDI-TOF-MS. <i>Scientific Reports</i> , 2016, 6, 23296.	3.3	54
15	Glycoform-resolved FcγRIIIa affinity chromatography–mass spectrometry. <i>MAbs</i> , 2019, 11, 1191-1196.	5.2	42
16	Glycoforms of Immunoglobulin G Based Biopharmaceuticals Are Differentially Cleaved by Trypsin Due to the Glycoform Influence on Higher-Order Structure. <i>Journal of Proteome Research</i> , 2015, 14, 4019-4028.	3.7	35
17	Development of an online p38 ^β mitogen-activated protein kinase binding assay and integration of LC–HR-MS. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 398, 1771-1780.	3.7	32
18	ACPA IgG galactosylation associates with disease activity in pregnant patients with rheumatoid arthritis. <i>Annals of the Rheumatic Diseases</i> , 2018, 77, annrheumdis-2018-212946.	0.9	31

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19	Simultaneous Immunoglobulin A and G Glycopeptide Profiling for High-Throughput Applications. <i>Analytical Chemistry</i> , 2020, 92, 4518-4526.	6.5	28
20	High temperature liquid chromatography hyphenated with ESI-MS and ICP-MS detection for the structural characterization and quantification of halogen containing drug metabolites. <i>Analytica Chimica Acta</i> , 2011, 698, 69-76.	5.4	26
21	Developments and perspectives in high-throughput protein glycomics: enabling the analysis of thousands of samples. <i>Glycobiology</i> , 2022, 32, 651-663.	2.5	24
22	Glycoform-resolved pharmacokinetic studies in a rat model employing glycoengineered variants of a therapeutic monoclonal antibody. <i>MABs</i> , 2021, 13, 1865596.	5.2	23
23	Affinity purification of erythropoietin from cell culture supernatant combined with MALDI-TOF-MS analysis of erythropoietin N-glycosylation. <i>Scientific Reports</i> , 2017, 7, 5324.	3.3	20
24	On-line electrochemistryâ€bioaffinity screening with parallel HR-LC-MS for the generation and characterization of modified p38Î± kinase inhibitors. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 403, 367-375.	3.7	17
25	Proteoform-Resolved FcÎ³RIIIa Binding Assay for Fab Glycosylated Monoclonal Antibodies Achieved by Affinity Chromatography Mass Spectrometry of Fc Moieties. <i>Frontiers in Chemistry</i> , 2019, 7, 698.	3.6	17
26	MS-Based Allotype-Specific Analysis of Polyclonal IgG-Fc N-Glycosylation. <i>Frontiers in Immunology</i> , 2020, 11, 2049.	4.8	17
27	Solution-phase electrochemistry-nuclear magnetic resonance of small organic molecules. <i>TrAC - Trends in Analytical Chemistry</i> , 2015, 70, 31-39.	11.4	16
28	A Matrix-Assisted Laser Desorption/Ionizationâ€Mass Spectrometry Assay for the Relative Quantitation of Antennary Fucosylated N-Glycans in Human Plasma. <i>Frontiers in Chemistry</i> , 2020, 8, 138.	3.6	14
29	Comparison of Fc N-Glycosylation of Pharmaceutical Products of Intravenous Immunoglobulin G. <i>PLoS ONE</i> , 2015, 10, e0139828.	2.5	14
30	Combination of biotransformation by P450 BM3 mutants with on-line post-column bioaffinity and mass spectrometric profiling as a novel strategy to diversify and characterize p38Î± kinase inhibitors. <i>MedChemComm</i> , 2013, 4, 371-377.	3.4	13
31	Site-Specific Glycosylation Mapping of Fc Gamma Receptor IIIb from Neutrophils of Individual Healthy Donors. <i>Analytical Chemistry</i> , 2020, 92, 13172-13181.	6.5	12
32	Fast method for monitoring phospholipase A2 activity by liquid chromatographyâ€electrospray ionization mass spectrometry. <i>Journal of Chromatography A</i> , 2009, 1216, 5249-5255.	3.7	11
33	Development of a Profiling Strategy for Metabolic Mixtures by Combining Chromatography and Mass Spectrometry with Cell-Based GPCR Signaling. <i>Journal of Biomolecular Screening</i> , 2012, 17, 1329-1338.	2.6	11
34	High-resolution metabolic profiling towards G protein-coupled receptors: Rapid and comprehensive screening of histamine H4 receptor ligands. <i>Journal of Chromatography A</i> , 2012, 1259, 213-220.	3.7	11
35	ECâ€SPEâ€stripline-NMR analysis of reactive products: a feasibility study. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 6711-6720.	3.7	11
36	Fc gamma receptor IIIb binding of individual antibody proteoforms resolved by affinity chromatographyâ€mass spectrometry. <i>MABs</i> , 2021, 13, 1982847.	5.2	11

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37	Tandem mass spectrometry study of p38 ^{Î±} kinase inhibitors and related substances. Journal of Mass Spectrometry, 2013, 48, 718-731.	1.6	7
38	Metabolic profiling of ligands for the chemokine receptor CXCR3 by liquid chromatography-mass spectrometry coupled to bioaffinity assessment. Analytical and Bioanalytical Chemistry, 2015, 407, 7067-7081.	3.7	6
39	Serum and Plasma Immunoglobulin G Fc N-Glycosylation Is Stable during Storage. Journal of Proteome Research, 2021, 20, 2935-2941.	3.7	6
40	Comparison of (bio-)transformation methods for the generation of metabolite-like compound libraries of p38 ^{Î±} MAP kinase inhibitors using high-resolution screening. Journal of Pharmaceutical and Biomedical Analysis, 2014, 88, 235-244.	2.8	5
41	Immunoglobulin G Glycoprofiles are Unaffected by Common Bottom-Up Sample Processing. Journal of Proteome Research, 2020, 19, 4158-4162.	3.7	5
42	A novel glycosidase plate-based assay for the quantification of galactosylation and sialylation on human IgG. Glycoconjugate Journal, 2020, 37, 691-702.	2.7	4
43	A functional spleen contributes to afucosylated IgG in humans. Scientific Reports, 2021, 11, 24045.	3.3	4
44	Development of On-line Liquid Chromatography-Biochemical Detection for Soluble Epoxide Hydrolase Inhibitors in Mixtures. Chromatographia, 2013, 76, 13-21.	1.3	3
45	Editorial: Immunoglobulin Glycosylation Analysis: State-of-the-Art Methods and Applications in Immunology. Frontiers in Immunology, 2022, 13, .	4.8	2
46	FRI0083â€¦Reduced increase of ACPA IGG-FC galactosylation during pregnancy in comparison to total IGG: an explanation why autoantibody positive RA-patients improve less during pregnancy?. , 2017, , .		0