

# David Falck

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9052142/publications.pdf>

Version: 2024-02-01

46  
papers

1,802  
citations

331259

21  
h-index

288905

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.	5.8	141
2	Glycosylation of Immunoglobulin G Associates With Clinical Features of Inflammatory Bowel Diseases. <i>Gastroenterology</i> , 2018, 154, 1320-1333.e10.	0.6	116
3	Comparison of methods for the analysis of therapeutic immunoglobulin G Fc-glycosylation profilesâ€”Part 2: Mass spectrometric methods. <i>MAbs</i> , 2015, 7, 732-742.	2.6	114
4	LaCyTools: A Targeted Liquid Chromatographyâ€”Mass Spectrometry Data Processing Package for Relative Quantitation of Glycopeptides. <i>Journal of Proteome Research</i> , 2016, 15, 2198-2210.	1.8	114
5	Linkage-Specific Sialic Acid Derivatization for MALDI-TOF-MS Profiling of IgG Glycopeptides. <i>Analytical Chemistry</i> , 2015, 87, 8284-8291.	3.2	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.	1.8	107
7	FcÎ³R Binding and ADCC Activity of Human IgG Allotypes. <i>Frontiers in Immunology</i> , 2020, 11, 740.	2.2	101
8	Highly sensitive CE-ESI-MS analysis of N-glycans from complex biological samples. <i>Nature Communications</i> , 2019, 10, 2137.	5.8	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.	2.5	87
10	Monitoring of immunoglobulin N- and O-glycosylation in health and disease. <i>Glycobiology</i> , 2020, 30, 226-240.	1.3	75
11	High-Throughput Analysis of IgG Fc Glycopeptides by LC-MS. <i>Methods in Molecular Biology</i> , 2017, 1503, 31-47.	0.4	73
12	Mass spectrometry for glycosylation analysis of biopharmaceuticals. <i>TrAC - Trends in Analytical Chemistry</i> , 2015, 73, 1-9.	5.8	67
13	Dopant Enriched Nitrogen Gas Combined with Sheathless Capillary Electrophoresisâ€”Electrospray Ionization-Mass Spectrometry for Improved Sensitivity and Repeatability in Glycopeptide Analysis. <i>Analytical Chemistry</i> , 2016, 88, 5849-5856.	3.2	60
14	Pregnancy-associated serum N-glycome changes studied by high-throughput MALDI-TOF-MS. <i>Scientific Reports</i> , 2016, 6, 23296.	1.6	54
15	Glycoform-resolved FcÎ£RIIIa affinity chromatographyâ€”mass spectrometry. <i>MAbs</i> , 2019, 11, 1191-1196.	2.6	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.	1.8	35
17	Development of an online p38Î± mitogen-activated protein kinase binding assay and integration of LCâ€”HR-MS. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 398, 1771-1780.	1.9	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.	0.5	31

#	ARTICLE	IF	CITATIONS
19	Simultaneous Immunoglobulin A and G Glycopeptide Profiling for High-Throughput Applications. <i>Analytical Chemistry</i> , 2020, 92, 4518-4526.	3.2	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.	2.6	26
21	Developments and perspectives in high-throughput protein glycomics: enabling the analysis of thousands of samples. <i>Glycobiology</i> , 2022, 32, 651-663.	1.3	24
22	Glycoform-resolved pharmacokinetic studies in a rat model employing glycoengineered variants of a therapeutic monoclonal antibody. <i>MABs</i> , 2021, 13, 1865596.	2.6	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.	1.6	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.	1.9	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.	1.8	17
26	MS-Based Allotype-Specific Analysis of Polyclonal IgG-Fc N-Glycosylation. <i>Frontiers in Immunology</i> , 2020, 11, 2049.	2.2	17
27	Solution-phase electrochemistry-nuclear magnetic resonance of small organic molecules. <i>TrAC - Trends in Analytical Chemistry</i> , 2015, 70, 31-39.	5.8	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.	1.8	14
29	Comparison of Fc N-Glycosylation of Pharmaceutical Products of Intravenous Immunoglobulin G. <i>PLoS ONE</i> , 2015, 10, e0139828.	1.1	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.	3.5	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.	3.2	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.	1.8	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.	1.8	11
35	ECâ€SPEâ€stripline-NMR analysis of reactive products: a feasibility study. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 6711-6720.	1.9	11
36	Fc gamma receptor IIIb binding of individual antibody proteoforms resolved by affinity chromatographyâ€mass spectrometry. <i>MABs</i> , 2021, 13, 1982847.	2.6	11

#	ARTICLE	IF	CITATIONS
37	Tandem mass spectrometry study of p38 <sup>Î±</sup> kinase inhibitors and related substances. Journal of Mass Spectrometry, 2013, 48, 718-731.	0.7	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.	1.9	6
39	Serum and Plasma Immunoglobulin G Fc N-Glycosylation Is Stable during Storage. Journal of Proteome Research, 2021, 20, 2935-2941.	1.8	6
40	Comparison of (bio-)transformation methods for the generation of metabolite-like compound libraries of p38 <sup>Î±</sup> MAP kinase inhibitors using high-resolution screening. Journal of Pharmaceutical and Biomedical Analysis, 2014, 88, 235-244.	1.4	5
41	Immunoglobulin G Glycoprofiles are Unaffected by Common Bottom-Up Sample Processing. Journal of Proteome Research, 2020, 19, 4158-4162.	1.8	5
42	A novel glycosidase plate-based assay for the quantification of galactosylation and sialylation on human IgG. Glycoconjugate Journal, 2020, 37, 691-702.	1.4	4
43	A functional spleen contributes to afucosylated IgG in humans. Scientific Reports, 2021, 11, 24045.	1.6	4
44	Development of On-line Liquid Chromatography-Biochemical Detection for Soluble Epoxide Hydrolase Inhibitors in Mixtures. Chromatographia, 2013, 76, 13-21.	0.7	3
45	Editorial: Immunoglobulin Glycosylation Analysis: State-of-the-Art Methods and Applications in Immunology. Frontiers in Immunology, 2022, 13, .	2.2	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