

# Petr Pompach

## List of Publications by Year in descending order

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47  
papers

1,395  
citations

331259

21  
h-index

344852

36  
g-index

57  
all docs

57  
docs citations

57  
times ranked

1994  
citing authors

#	ARTICLE	IF	CITATIONS
1	The impact of individual human cytochrome P450 enzymes on oxidative metabolism of anticancer drug lenvatinib. <i>Biomedicine and Pharmacotherapy</i> , 2022, 145, 112391.	2.5	6
2	An Integrative Structural Biology Analysis of Von Willebrand Factor Binding and Processing by ADAMTS-13 in Solution. <i>Journal of Molecular Biology</i> , 2021, 433, 166954.	2.0	3
3	Cytochrome P450 and flavin-containing monooxygenase enzymes are responsible for differential oxidation of the anti-thyroid-cancer drug vandetanib by human and rat hepatic microsomal systems. <i>Environmental Toxicology and Pharmacology</i> , 2020, 74, 103310.	2.0	11
4	Three-Dimensional Printed Target Plates for Matrix-Assisted Laser Desorption/Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , 2020, 92, 12783-12788.	3.2	3
5	Identification of Enzymes Oxidizing the Tyrosine Kinase Inhibitor Cabozantinib: Cabozantinib Is Predominantly Oxidized by CYP3A4 and Its Oxidation Is Stimulated by cyt b5 Activity. <i>Biomedicines</i> , 2020, 8, 547.	1.4	4
6	Identification of Human Enzymes Oxidizing the Anti-Thyroid-Cancer Drug Vandetanib and Explanation of the High Efficiency of Cytochrome P450 3A4 in its Oxidation. <i>International Journal of Molecular Sciences</i> , 2019, 20, 3392.	1.8	13
7	Production of recombinant soluble dimeric C-type lectin-like receptors of rat natural killer cells. <i>Scientific Reports</i> , 2019, 9, 17836.	1.6	6
8	Cross-Linking/Mass Spectrometry Uncovers Details of Insulin-Like Growth Factor Interaction With Insect Insulin Binding Protein Imp-L2. <i>Frontiers in Endocrinology</i> , 2019, 10, 695.	1.5	3
9	Proteases Immobilization for In Situ Time-Limited Proteolysis on MALDI Chips. <i>Catalysts</i> , 2019, 9, 833.	1.6	2
10	Crystal structure of native N-acetylhexosaminidase isolated from <i>Aspergillus oryzae</i> sheds light onto its substrate specificity, high stability, and regulation by propeptide. <i>FEBS Journal</i> , 2018, 285, 580-598.	2.2	12
11	Detection and Quantification of Carbohydrate-Deficient Transferrin by MALDI-Compatible Protein Chips Prepared by Ambient Ion Soft Landing. <i>Clinical Chemistry</i> , 2018, 64, 1319-1326.	1.5	14
12	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. <i>Journal of Proteomics</i> , 2017, 153, 44-52.	1.2	26
13	Protein Chips Compatible with MALDI Mass Spectrometry Prepared by Ambient Ion Landing. <i>Analytical Chemistry</i> , 2016, 88, 8526-8534.	3.2	14
14	Planar Functionalized Surfaces for Direct Immunoaffinity Desorption/Ionization Mass Spectrometry. <i>Clinical Chemistry</i> , 2016, 62, 270-278.	1.5	18
15	Modifications in the glycerophospholipid composition between the <i>Coxiella burnetii</i> phase I and phase II cells suggest an association with phase variation of the bacterium. <i>Acta Virologica</i> , 2016, 60, 27-33.	0.3	5
16	High-throughput workflow for identification of phosphorylated peptides by LC-MALDI-TOF/TOF-MS coupled to <i>in situ</i> enrichment on MALDI plates functionalized by ion landing. <i>Journal of Mass Spectrometry</i> , 2015, 50, 802-811.	0.7	8
17	Protein and Site Specificity of Fucosylation in Liver-Secreted Glycoproteins. <i>Journal of Proteome Research</i> , 2014, 13, 5561-5569.	1.8	32
18	Quantification of Fucosylated Hemopexin and Complement Factor H in Plasma of Patients with Liver Disease. <i>Analytical Chemistry</i> , 2014, 86, 10716-10723.	3.2	44

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19	Exploring Site-Specific N-Glycosylation Microheterogeneity of Haptoglobin Using Glycopeptide CID Tandem Mass Spectra and Glycan Database Search. <i>Journal of Proteome Research</i> , 2013, 12, 3652-3666.	1.8	96
20	Site-specific Glycoforms of Haptoglobin in Liver Cirrhosis and Hepatocellular Carcinoma. <i>Molecular and Cellular Proteomics</i> , 2013, 12, 1281-1293.	2.5	104
21	Quantitative Liquid Chromatography-Mass Spectrometry-Multiple Reaction Monitoring (LC-MS-MRM) Analysis of Site-specific Glycoforms of Haptoglobin in Liver Disease. <i>Molecular and Cellular Proteomics</i> , 2013, 12, 1294-1305.	2.5	83
22	Interlaboratory Study on Differential Analysis of Protein Glycosylation by Mass Spectrometry: The ABRF Glycoprotein Research Multi-Institutional Study 2012. <i>Molecular and Cellular Proteomics</i> , 2013, 12, 2935-2951.	2.5	103
23	LC-MS/MS quantification of O-glycopeptides in human serum. <i>Electrophoresis</i> , 2013, 34, 2342-4349.	1.3	21
24	Heat Shock-Induced Accumulation of Translation Elongation and Termination Factors Precedes Assembly of Stress Granules in <i>S. cerevisiae</i> . <i>PLoS ONE</i> , 2013, 8, e57083.	1.1	56
25	Analysis of Tubulin Alpha-1A/1B C-Terminal Tail Post-translational Poly-glutamylated Reveals Novel Modification Sites. <i>Journal of Proteome Research</i> , 2012, 11, 1913-1923.	1.8	14
26	Semi-Automated Identification of N-Glycopeptides by Hydrophilic Interaction Chromatography, nano-Reverse-Phase LC-MS/MS, and Glycan Database Search. <i>Journal of Proteome Research</i> , 2012, 11, 1728-1740.	1.8	96
27	Sequencing, cloning and high-yield expression of a fungal $\beta$ -N-acetylhexosaminidase in <i>Pichia pastoris</i> . <i>Protein Expression and Purification</i> , 2012, 82, 212-217.	0.6	26
28	Dimerization of an Immunoactivating Peptide Derived from Mycobacterial hsp65 Using N-Hydroxysuccinimide Based Bifunctional Reagents Is Critical for Its Antitumor Properties. <i>Bioconjugate Chemistry</i> , 2012, 23, 2032-2041.	1.8	1
29	<i>In situ</i> enrichment of phosphopeptides on MALDI plates modified by ambient ion landing. <i>Journal of Mass Spectrometry</i> , 2012, 47, 1294-1302.	0.7	21
30	Molecular architecture of mouse activating NKR-P1 receptors. <i>Journal of Structural Biology</i> , 2011, 175, 434-441.	1.3	34
31	Enzymatic characterization and molecular modeling of an evolutionarily interesting fungal $\beta$ -N-acetylhexosaminidase. <i>FEBS Journal</i> , 2011, 278, 2469-2484.	2.2	34
32	Down-regulation of Protein-tyrosine Phosphatases Activates an Immune Receptor in the Absence of Its Translocation into Lipid Rafts. <i>Journal of Biological Chemistry</i> , 2010, 285, 12787-12802.	1.6	38
33	Fragmentation of Human Erythrocyte Actin following Exposure to Hypoxia. <i>Acta Haematologica</i> , 2010, 123, 6-13.	0.7	6
34	Identification of Multiple Substrates of the StkP Ser/Thr Protein Kinase in <i>Streptococcus pneumoniae</i> . <i>Journal of Bacteriology</i> , 2010, 192, 3629-3638.	1.0	91
35	The $\beta$ -galactosidase type A gene <i>aglA</i> from <i>Aspergillus niger</i> encodes a fully functional $\beta$ -N-acetylgalactosaminidase. <i>Glycobiology</i> , 2010, 20, 1410-1419.	1.3	9
36	Effective Removal of Nonionic Detergents in Protein Mass Spectrometry, Hydrogen/Deuterium Exchange, and Proteomics. <i>Analytical Chemistry</i> , 2010, 82, 5107-5116.	3.2	63

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37	Synthetic N-Acetyl-d-glucosamine Based Fully Branched Tetrasaccharide, a Mimetic of the Endogenous Ligand for CD69, Activates CD69+Killer Lymphocytes upon Dimerization via a Hydrophilic Flexible Linker. <i>Journal of Medicinal Chemistry</i> , 2010, 53, 4050-4065.	2.9	13
38	Utilization of high accuracy FTICR-MS data in protein quantitation experiments. <i>Journal of Mass Spectrometry</i> , 2009, 44, 1565-1570.	0.7	4
39	Modified electrophoretic and digestion conditions allow a simplified mass spectrometric evaluation of disulfide bonds. <i>Journal of Mass Spectrometry</i> , 2009, 44, 1571-1578.	0.7	31
40	VDAC2 and aldolase A identified as membrane proteins of K562 cells with increased expression under iron deprivation. <i>Molecular and Cellular Biochemistry</i> , 2008, 311, 225-231.	1.4	9
41	Soluble recombinant CD69 receptors optimized to have an exceptional physical and chemical stability display prolonged circulation and remain intact in the blood of mice. <i>FEBS Journal</i> , 2008, 275, 5589-5606.	2.2	26
42	Purification and characterization of a nitrilase from <i>Fusarium solani</i> O1. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2008, 50, 99-106.	1.8	51
43	Large Propeptides of Fungal $\beta$ -N-Acetylhexosaminidases Are Novel Enzyme Regulators That Must Be Intracellularly Processed to Control Activity, Dimerization, and Secretion into the Extracellular Environment. <i>Biochemistry</i> , 2007, 46, 2719-2734.	1.2	23
44	Structure of the dimeric N-glycosylated form of fungal $\beta$ -N-acetylhexosaminidase revealed by computer modeling, vibrational spectroscopy, and biochemical studies. <i>BMC Structural Biology</i> , 2007, 7, 32.	2.3	24
45	Purification and characterization of a nitrilase from <i>Aspergillus niger</i> K10. <i>Applied Microbiology and Biotechnology</i> , 2006, 73, 567-575.	1.7	76
46	A chemoenzymatic route to mannosamine derivatives bearing different N-acyl groups. <i>Journal of Biotechnology</i> , 2005, 115, 157-166.	1.9	6
47	The Isoforms of Rat Natural Killer Cell Receptor NKR-P1 Display a Distinct Binding of Complex Saccharide Ligands - RETRACTED. <i>Collection of Czechoslovak Chemical Communications</i> , 2004, 69, 631-644.	1.0	7