

Peter SpÃ©gel

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5311418/publications.pdf>

Version: 2024-02-01

69
papers

4,519
citations

126907

33
h-index

106344

65
g-index

69
all docs

69
docs citations

69
times ranked

6733
citing authors

#	ARTICLE	IF	CITATIONS
1	Novel subgroups of adult-onset diabetes and their association with outcomes: a data-driven cluster analysis of six variables. <i>Lancet Diabetes and Endocrinology</i> , 2018, 6, 361-369.	11.4	1,430
2	Common variant in MTNR1B associated with increased risk of type 2 diabetes and impaired early insulin secretion. <i>Nature Genetics</i> , 2009, 41, 82-88.	21.4	642
3	Molecularly imprinted microparticles for capillary electrochromatographic enantiomer separation of propranolol. <i>Analyt. Chem.</i> , 2000, 72, 1899-1901.	3.5	127
4	Selectivity toward Multiple Predetermined Targets in Nanoparticle Capillary Electrochromatography. <i>Analytical Chemistry</i> , 2003, 75, 6608-6613.	6.5	105
5	Molecularly imprinted polymer formats for capillary electrochromatography. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2004, 804, 3-12.	2.3	97
6	Molecularly imprinted microparticles for capillary electrochromatography: Studies on microparticle synthesis and electrolyte composition. <i>Electrophoresis</i> , 2001, 22, 3833-3841.	2.4	88
7	Approaches to molecular imprinting based selectivity in capillary electrochromatography. <i>Electrophoresis</i> , 2001, 22, 4053-4063.	2.4	88
8	Nanoparticles as Pseudostationary Phase in Capillary Electrochromatography/ESI-MS. <i>Analytical Chemistry</i> , 2002, 74, 4595-4601.	6.5	85
9	Molecularly imprinted polymers in capillary electrochromatography: Recent developments and future trends. <i>Electrophoresis</i> , 2003, 24, 3892-3899.	2.4	85
10	The pathogenetic role of β -cell mitochondria in type 2 diabetes. <i>Journal of Endocrinology</i> , 2018, 236, R145-R159.	2.6	83
11	Time-resolved metabolomics analysis of β -cells implicates the pentose phosphate pathway in the control of insulin release. <i>Biochemical Journal</i> , 2013, 450, 595-605.	3.7	82
12	The mosaic oat genome gives insights into a uniquely healthy cereal crop. <i>Nature</i> , 2022, 606, 113-119.	27.8	70
13	Nanoparticle-Based Continuous Full Filling Capillary Electrochromatography/Electrospray Ionization-Mass Spectrometry for Separation of Neutral Compounds. <i>Analytical Chemistry</i> , 2006, 78, 6088-6095.	6.5	69
14	Gastric Bypass Improves β -Cell Function and Increases β -Cell Mass in a Porcine Model. <i>Diabetes</i> , 2014, 63, 1665-1671.	0.6	67
15	Development and optimization of a metabolomic method for analysis of adherent cell cultures. <i>Analytical Biochemistry</i> , 2010, 404, 30-39.	2.4	66
16	Coordinate Changes in Histone Modifications, mRNA Levels, and Metabolite Profiles in Clonal INS-1 832/13 β -Cells Accompany Functional Adaptations to Lipotoxicity. <i>Journal of Biological Chemistry</i> , 2013, 288, 11973-11987.	3.4	66
17	NFATc3 Regulates Trypsinogen Activation, Neutrophil Recruitment, and Tissue Damage in Acute Pancreatitis in Mice. <i>Gastroenterology</i> , 2012, 143, 1352-1360.e7.	1.3	58
18	Genotype-based treatment of type 2 diabetes with an α -adrenergic receptor antagonist. <i>Science Translational Medicine</i> , 2014, 6, 257ra139.	12.4	58

#	ARTICLE	IF	CITATIONS
19	Fumarate Hydratase Deletion in Pancreatic β^2 Cells Leads to Progressive Diabetes. <i>Cell Reports</i> , 2017, 20, 3135-3148.	6.4	57
20	Dysregulation of Glucagon Secretion by Hyperglycemia-Induced Sodium-Dependent Reduction of ATP Production. <i>Cell Metabolism</i> , 2019, 29, 430-442.e4.	16.2	57
21	Characterization of Stimulus-Secretion Coupling in the Human Pancreatic EndoC- β^2 H1 Beta Cell Line. <i>PLoS ONE</i> , 2015, 10, e0120879.	2.5	54
22	Loss of TFB1M results in mitochondrial dysfunction that leads to impaired insulin secretion and diabetes. <i>Human Molecular Genetics</i> , 2014, 23, 5733-5749.	2.9	51
23	Metabolomic and Proteomic Analysis of a Clonal Insulin-Producing β^2 -Cell Line (INS-1 832/13). <i>Journal of Proteome Research</i> , 2008, 7, 400-411.	3.7	46
24	Ultra-high-performance supercritical fluid chromatography with quadrupole-time-of-flight mass spectrometry (UHPSFC/QTOF-MS) for analysis of lignin-derived monomeric compounds in processed lignin samples. <i>Analytical and Bioanalytical Chemistry</i> , 2017, 409, 7049-7061.	3.7	43
25	Molecularly imprinted polymers. <i>Analytical and Bioanalytical Chemistry</i> , 2002, 372, 37-38.	3.7	42
26	Metabolomic analysis of a human oral glucose tolerance test reveals fatty acids as reliable indicators of regulated metabolism. <i>Metabolomics</i> , 2010, 6, 56-66.	3.0	42
27	Metabolomic analyses reveal profound differences in glycolytic and tricarboxylic acid cycle metabolism in glucose-responsive and -unresponsive clonal β^2 -cell lines. <i>Biochemical Journal</i> , 2011, 435, 277-284.	3.7	41
28	Metabolite Profiling Reveals Normal Metabolic Control in Carriers of Mutations in the Glucokinase Gene (MODY2). <i>Diabetes</i> , 2013, 62, 653-661.	0.6	39
29	Metabolite profile deviations in an oral glucose tolerance test—a comparison between lean and obese individuals. <i>Obesity</i> , 2014, 22, 2388-2395.	3.0	37
30	Chronic High Glucose and Pyruvate Levels Differentially Affect Mitochondrial Bioenergetics and Fuel-stimulated Insulin Secretion from Clonal INS-1 832/13 Cells. <i>Journal of Biological Chemistry</i> , 2014, 289, 3786-3798.	3.4	35
31	NNT reverse mode of operation mediates glucose control of mitochondrial NADPH and glutathione redox state in mouse pancreatic β^2 -cells. <i>Molecular Metabolism</i> , 2017, 6, 535-547.	6.5	35
32	Effects of Ingestion Routes on Hormonal and Metabolic Profiles in Gastric-Bypassed Humans. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2013, 98, E856-E861.	3.6	34
33	Inhibition of Nuclear Factor of Activated T-Cells (NFAT) Suppresses Accelerated Atherosclerosis in Diabetic Mice. <i>PLoS ONE</i> , 2013, 8, e65020.	2.5	34
34	Identification of lignin oligomers in Kraft lignin using ultra-high-performance liquid chromatography/high-resolution multiple-stage tandem mass spectrometry (UHPLC/HRMSn). <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 7803-7814.	3.7	32
35	Inhibition of the malate-aspartate shuttle in mouse pancreatic islets abolishes glucagon secretion without affecting insulin secretion. <i>Biochemical Journal</i> , 2015, 468, 49-63.	3.7	27
36	Cognitive Impairment and Metabolite Profile Alterations in the Hippocampus and Cortex of Male and Female Mice Exposed to a Fat and Sugar-Rich Diet are Normalized by Diet Reversal. , 2022, 13, 267.		27

#	ARTICLE	IF	CITATIONS
37	Pressurized carbon dioxide as a potential tool for decellularization of pulmonary arteries for transplant purposes. <i>Scientific Reports</i> , 2020, 10, 4031.	3.3	26
38	Pyruvate dehydrogenase kinase 1 controls mitochondrial metabolism and insulin secretion in INS-1 832/13 clonal β -cells. <i>Biochemical Journal</i> , 2010, 429, 205-213.	3.7	25
39	Metabolic Effects of Gastric Bypass Surgery: Is It All About Calories?. <i>Diabetes</i> , 2020, 69, 2027-2035.	0.6	24
40	A review of green solvent extraction techniques and their use in antibiotic residue analysis. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2022, 209, 114487.	2.8	24
41	Novel Vinylpyridine Based Cationic MIP Monoliths for Enantiomer Separation in CEC. <i>Chromatographia</i> , 2009, 69, 277-285.	1.3	23
42	Development of a gas chromatography/mass spectrometry based metabolomics protocol by means of statistical experimental design. <i>Metabolomics</i> , 2012, 8, 50-63.	3.0	23
43	Unique and Shared Metabolic Regulation in Clonal β -Cells and Primary Islets Derived From Rat Revealed by Metabolomics Analysis. <i>Endocrinology</i> , 2015, 156, 1995-2005.	2.8	23
44	Screening of stationary phase selectivities for global lipid profiling by ultrahigh performance supercritical fluid chromatography. <i>Journal of Chromatography A</i> , 2018, 1548, 76-82.	3.7	23
45	Glutamine-Elicited Secretion of Glucagon-Like Peptide 1 Is Governed by an Activated Glutamate Dehydrogenase. <i>Diabetes</i> , 2018, 67, 372-384.	0.6	20
46	Metabolite Profiling of LADA Challenges the View of a Metabolically Distinct Subtype. <i>Diabetes</i> , 2017, 66, 806-814.	0.6	18
47	Treatment of Swedish Patients with Graves' Hyperthyroidism Is Associated with Changes in Acylcarnitine Levels. <i>Thyroid</i> , 2017, 27, 1109-1117.	4.5	17
48	Probiotic fruit beverages with different polyphenol profiles attenuated early insulin response. <i>Nutrition Journal</i> , 2018, 17, 34.	3.4	16
49	Metabolomics Analysis of Nutrient Metabolism in β -Cells. <i>Journal of Molecular Biology</i> , 2020, 432, 1429-1445.	4.2	16
50	Deletion of glycerol channel aquaporin-9 (Aqp9) impairs long-term blood glucose control in C57BL/6 leptin receptor-deficient (db/db) obese mice. <i>Physiological Reports</i> , 2015, 3, e12538.	1.7	15
51	Changes in glucose-elicited blood metabolite responses following weight loss and long term weight maintenance in obese individuals with impaired glucose tolerance. <i>Diabetes Research and Clinical Practice</i> , 2016, 113, 187-197.	2.8	13
52	The Transcriptional Co-Repressor Myeloid Translocation Gene 16 Inhibits Glycolysis and Stimulates Mitochondrial Respiration. <i>PLoS ONE</i> , 2013, 8, e68502.	2.5	12
53	Nontargeted Analysis Strategy for the Identification of Phenolic Compounds in Complex Technical Lignin Samples. <i>ChemSusChem</i> , 2020, 13, 4605-4612.	6.8	12
54	Continuous full filling capillary electrochromatography: Chromatographic performance and reproducibility. <i>Journal of Chromatography A</i> , 2007, 1154, 386-389.	3.7	11

#	ARTICLE	IF	CITATIONS
55	Continuous full filling capillary electrochromatography: Nanoparticle synthesis and evaluation. <i>Journal of Chromatography A</i> , 2007, 1154, 379-385.	3.7	10
56	Alterations in the plasma metabolite profile associated with improved hepatic function and glycemia in mice fed lingonberry supplemented high-fat diets. <i>Molecular Nutrition and Food Research</i> , 2017, 61, 1600442.	3.3	10
57	The impact of Roux-en-Y gastric bypass surgery on normal metabolism in a porcine model. <i>PLoS ONE</i> , 2017, 12, e0173137.	2.5	10
58	Short- and Long-Term Hormonal and Metabolic Consequences of Reversing Gastric Bypass to Normal Anatomy in a Type 2 Diabetes Patient. <i>Obesity Surgery</i> , 2015, 25, 180-185.	2.1	8
59	Liver nucleotide biosynthesis is linked to protection from vascular complications in individuals with long-term type 1 diabetes. <i>Scientific Reports</i> , 2020, 10, 11561.	3.3	8
60	Discriminative Prediction of A-To-I RNA Editing Events from DNA Sequence. <i>PLoS ONE</i> , 2016, 11, e0164962.	2.5	7
61	Glycogen metabolism in the glucose-sensing and supply-driven β -cell. <i>FEBS Letters</i> , 2016, 590, 4242-4251.	2.8	6
62	Metabolite profiling paradoxically reveals favorable levels of lipids, markers of oxidative stress and unsaturated fatty acids in a diabetes susceptible group of Middle Eastern immigrants. <i>Acta Diabetologica</i> , 2020, 57, 597-603.	2.5	6
63	Chiral Separations by Capillary Electrochromatography Using Molecularly Imprinted Polymers. , 2004, 243, 411-424.		4
64	Pressurized carbon dioxide combined with aqueous ethanol as cosolvent induces efficient delipidation of porcine retina for their use as bioscaffolds. <i>Journal of CO2 Utilization</i> , 2019, 34, 700-708.	6.8	4
65	Continuous full filling capillary electrochromatography-electrospraying chromatographic nanoparticles. <i>Electrophoresis</i> , 2011, 32, 261-267.	2.4	2
66	Branched-chain amino acids are associated with odd-chain fatty acids in normoglycaemic individuals. <i>Diabetes and Metabolism</i> , 2017, 43, 475-479.	2.9	2
67	Population-Level Analysis to Determine Parameters That Drive Variation in the Plasma Metabolite Profiles. <i>Metabolites</i> , 2018, 8, 78.	2.9	2
68	Glucose-dependent insulinotropic polypeptide lowers branched chain amino acids in hyperglycemic rats. <i>Regulatory Peptides</i> , 2014, 189, 11-16.	1.9	0
69	Alterations in levels of intermediate-chained acylcarnitines associate with weight-gain following reestablishment of euthyroidism in Graves' disease. <i>Endocrine</i> , 2019, 63, 164-166.	2.3	0