

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	A review of green solvent extraction techniques and their use in antibiotic residue analysis. Journal of Pharmaceutical and Biomedical Analysis, 2022, 209, 114487.	2.8	24
2	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
3	The mosaic oat genome gives insights into a uniquely healthy cereal crop. Nature, 2022, 606, 113-119.	27.8	70
4	Metabolomics Analysis of Nutrient Metabolism in β -Cells. Journal of Molecular Biology, 2020, 432, 1429-1445.	4.2	16
5	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. Acta Diabetologica, 2020, 57, 597-603.	2.5	6
6	Liver nucleotide biosynthesis is linked to protection from vascular complications in individuals with long-term type 1 diabetes. Scientific Reports, 2020, 10, 11561.	3.3	8
7	Nontargeted Analysis Strategy for the Identification of Phenolic Compounds in Complex Technical Lignin Samples. ChemSusChem, 2020, 13, 4605-4612.	6.8	12
8	Metabolic Effects of Gastric Bypass Surgery: Is It All About Calories?. Diabetes, 2020, 69, 2027-2035.	0.6	24
9	Pressurized carbon dioxide as a potential tool for decellularization of pulmonary arteries for transplant purposes. Scientific Reports, 2020, 10, 4031.	3.3	26
10	Pressurized carbon dioxide combined with aqueous ethanol as cosolvent induces efficient delipidation of porcine retina for their use as bioscaffolds. Journal of CO2 Utilization, 2019, 34, 700-708.	6.8	4
11	Alterations in levels of intermediate-chained acylcarnitines associate with weight-gain following reestablishment of euthyroidism in Graves' disease. Endocrine, 2019, 63, 164-166.	2.3	0
12	Dysregulation of Glucagon Secretion by Hyperglycemia-Induced Sodium-Dependent Reduction of ATP Production. Cell Metabolism, 2019, 29, 430-442.e4.	16.2	57
13	The pathogenetic role of β -cell mitochondria in type 2 diabetes. Journal of Endocrinology, 2018, 236, R145-R159.	2.6	83
14	Novel subgroups of adult-onset diabetes and their association with outcomes: a data-driven cluster analysis of six variables. Lancet Diabetes and Endocrinology, 2018, 6, 361-369.	11.4	1,430
15	Glutamine-Elicited Secretion of Glucagon-Like Peptide 1 Is Governed by an Activated Glutamate Dehydrogenase. Diabetes, 2018, 67, 372-384.	0.6	20
16	Probiotic fruit beverages with different polyphenol profiles attenuated early insulin response. Nutrition Journal, 2018, 17, 34.	3.4	16
17	Screening of stationary phase selectivities for global lipid profiling by ultrahigh performance supercritical fluid chromatography. Journal of Chromatography A, 2018, 1548, 76-82.	3.7	23
18	Population-Level Analysis to Determine Parameters That Drive Variation in the Plasma Metabolite Profiles. Metabolites, 2018, 8, 78.	2.9	2

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	Metabolite Profiling of LADA Challenges the View of a Metabolically Distinct Subtype. <i>Diabetes</i> , 2017, 66, 806-814.	0.6	18
22	NNT reverse mode of operation mediates glucose control of mitochondrial NADPH and glutathione redox state in mouse pancreatic β -cells. <i>Molecular Metabolism</i> , 2017, 6, 535-547.	6.5	35
23	Fumarate Hydratase Deletion in Pancreatic β Cells Leads to Progressive Diabetes. <i>Cell Reports</i> , 2017, 20, 3135-3148.	6.4	57
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	Treatment of Swedish Patients with Graves' Hyperthyroidism Is Associated with Changes in Acylcarnitine Levels. <i>Thyroid</i> , 2017, 27, 1109-1117.	4.5	17
26	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
27	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
28	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
29	Glycogen metabolism in the glucose-sensing and supply-driven β -cell. <i>FEBS Letters</i> , 2016, 590, 4242-4251.	2.8	6
30	Discriminative Prediction of A-To-I RNA Editing Events from DNA Sequence. <i>PLoS ONE</i> , 2016, 11, e0164962.	2.5	7
31	Characterization of Stimulus-Secretion Coupling in the Human Pancreatic EndoC- β H1 Beta Cell Line. <i>PLoS ONE</i> , 2015, 10, e0120879.	2.5	54
32	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
33	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
34	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
35	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
36	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

#	ARTICLE	IF	CITATIONS
37	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
38	Genotype-based treatment of type 2 diabetes with an α -adrenergic receptor antagonist. <i>Science Translational Medicine</i> , 2014, 6, 257ra139.	12.4	58
39	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
40	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
41	Glucose-dependent insulinotropic polypeptide lowers branched chain amino acids in hyperglycemic rats. <i>Regulatory Peptides</i> , 2014, 189, 11-16.	1.9	0
42	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
43	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
44	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
45	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
46	The Transcriptional Co-Repressor Myeloid Translocation Gene 16 Inhibits Glycolysis and Stimulates Mitochondrial Respiration. <i>PLoS ONE</i> , 2013, 8, e68502.	2.5	12
47	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
48	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
49	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
50	Metabolomic analyses reveal profound differences in glycolytic and tricarboxylic acid cycle metabolism in glucose-responsive and -unresponsive clonal β -cell lines. <i>Biochemical Journal</i> , 2011, 435, 277-284.	3.7	41
51	Continuous full filling capillary electrochromatography "electrospraying chromatographic nanoparticles. <i>Electrophoresis</i> , 2011, 32, 261-267.	2.4	2
52	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
53	Development and optimization of a metabolomic method for analysis of adherent cell cultures. <i>Analytical Biochemistry</i> , 2010, 404, 30-39.	2.4	66
54	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

#	ARTICLE	IF	CITATIONS
55	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
56	Novel Vinylpyridine Based Cationic MIP Monoliths for Enantiomer Separation in CEC. <i>Chromatographia</i> , 2009, 69, 277-285.	1.3	23
57	Metabolomic and Proteomic Analysis of a Clonal Insulin-Producing β -Cell Line (INS-1 832/13). <i>Journal of Proteome Research</i> , 2008, 7, 400-411.	3.7	46
58	Continuous full filling capillary electrochromatography: Nanoparticle synthesis and evaluation. <i>Journal of Chromatography A</i> , 2007, 1154, 379-385.	3.7	10
59	Continuous full filling capillary electrochromatography: Chromatographic performance and reproducibility. <i>Journal of Chromatography A</i> , 2007, 1154, 386-389.	3.7	11
60	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
61	Chiral Separations by Capillary Electrochromatography Using Molecularly Imprinted Polymers. , 2004, 243, 411-424.		4
62	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
63	Molecularly imprinted polymers in capillary electrochromatography: Recent developments and future trends. <i>Electrophoresis</i> , 2003, 24, 3892-3899.	2.4	85
64	Selectivity toward Multiple Predetermined Targets in Nanoparticle Capillary Electrochromatography. <i>Analytical Chemistry</i> , 2003, 75, 6608-6613.	6.5	105
65	Nanoparticles as Pseudostationary Phase in Capillary Electrochromatography/ESI-MS. <i>Analytical Chemistry</i> , 2002, 74, 4595-4601.	6.5	85
66	Molecularly imprinted polymers. <i>Analytical and Bioanalytical Chemistry</i> , 2002, 372, 37-38.	3.7	42
67	Molecularly imprinted microparticles for capillary electrochromatography: Studies on microparticle synthesis and electrolyte composition. <i>Electrophoresis</i> , 2001, 22, 3833-3841.	2.4	88
68	Approaches to molecular imprinting based selectivity in capillary electrochromatography. <i>Electrophoresis</i> , 2001, 22, 4053-4063.	2.4	88
69	Molecularly imprinted microparticles for capillary electrochromatographic enantiomer separation of propranolol. <i>Analyst</i> , The, 2000, 125, 1899-1901.	3.5	127