Peter A Crawford

List of Publications by Year
in descending order

61 papers	8,368 citations	94269 37 h-index	128067 60 g-index
64 all docs	64 docs citations	64 times ranked	10673 citing authors

#	Article	IF	Citations
1	The ketone metabolite Î²-hydroxybutyrate blocks NLRP3 inflammasomeâ€"mediated inflammatory disease. Nature Medicine, 2015, 21, 263-269.	15.2	1,400
2	Multi-dimensional Roles of Ketone Bodies in Fuel Metabolism, Signaling, and Therapeutics. Cell Metabolism, 2017, 25, 262-284.	7.2	965
3	Nonalcoholic Steatohepatitis. JAMA - Journal of the American Medical Association, 2020, 323, 1175.	3.8	784
4	The Failing Heart Relies on Ketone Bodies as a Fuel. Circulation, 2016, 133, 698-705.	1.6	506
5	Mice deficient in the orphan receptor steroidogenic factor 1 lack adrenal glands and gonads but express P450 side-chain-cleavage enzyme in the placenta and have normal embryonic serum levels of corticosteroids.. Proceedings of the National Academy of Sciences of the United States of America, 1995, 92, 10939-10943.	3.3	430
6	Ketone body metabolism and cardiovascular disease. American Journal of Physiology - Heart and Circulatory Physiology, 2013, 304, H1060-H1076.	1.5	340
7	Nuclear Receptor DAX-1 Recruits Nuclear Receptor Corepressor N-CoR to Steroidogenic Factor 1. Molecular and Cellular Biology, 1998, 18, 2949-2956.	1.1	311
8	Regulation of myocardial ketone body metabolism by the gut microbiota during nutrient deprivation. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 11276-11281.	3.3	224
9	Lactate metabolism is associated with mammalian mitochondria. Nature Chemical Biology, 2016, 12, 937-943.	3.9	222
10	The failing heart utilizes 3-hydroxybutyrate as a metabolic stress defense. JCI Insight, 2019, 4, .	2.3	218
11	From The Cover: Microbial regulation of intestinal radiosensitivity. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 13254-13259.	3.3	208
12	Activation of Luteinizing Hormone Î² Gene by Gonadotropin-releasing Hormone Requires the Synergy of Early Growth Response-1 and Steroidogenic Factor-1. Journal of Biological Chemistry, 1999, 274, 13870-13876.	1.6	156
13	Ketogenesis prevents diet-induced fatty liver injury and hyperglycemia. Journal of Clinical Investigation, 2014, 124, 5175-5190.	3.9	156
14	X¹³CMS: Global Tracking of Isotopic Labels in Untargeted Metabolomics. Analytical Chemistry, 2014, 86, 1632-1639.	3.2	152
15	Cardiomyocyte-specific deficiency of ketone body metabolism promotes accelerated pathological remodeling. Molecular Metabolism, 2014, 3, 754-769.	3.0	148
16	Hepatic steatosis, inflammation, and ER stress in mice maintained long term on a very low-carbohydrate ketogenic diet. American Journal of Physiology - Renal Physiology, 2011, 300, G956-G967.	1.6	132
17	Nuclear Receptor Steroidogenic Factor 1 Directs Embryonic Stem Cells toward the Steroidogenic Lineage. Molecular and Cellular Biology, 1997, 17, 3997-4006.	1.1	122
18	Adaptation of Myocardial Substrate Metabolism to a Ketogenic Nutrient Environment. Journal of Biological Chemistry, 2010, 285, 24447-24456.	1.6	103

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19	Obligate Role for Ketone Body Oxidation in Neonatal Metabolic Homeostasis. Journal of Biological Chemistry, 2011, 286, 6902-6910.	1.6	101
20	Postnatal lymphatic partitioning from the blood vasculature in the small intestine requires fasting-induced adipose factor. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 606-611.	3.3	95
21	Circulating acylcarnitine profile in human heart failure: a surrogate of fatty acid metabolic dysregulation in mitochondria and beyond. American Journal of Physiology - Heart and Circulatory Physiology, 2017, 313, H768-H781.	1.5	95
22	The Activation Function-2 Hexamer of Steroidogenic Factor-1 Is Required, but Not Sufficient for Potentiation by SRC-1. Molecular Endocrinology, 1997, 11, 1626-1635.	3.7	94
23	Hepatocyte-Macrophage Acetoacetate Shuttle Protects against Tissue Fibrosis. Cell Metabolism, 2019, 29, 383-398.e7.	7.2	87
24	Mitochondrial pyruvate carriers are required for myocardial stress adaptation. Nature Metabolism, 2020, 2, 1248-1264.	5.1	87
25	Low-carbohydrate ketogenic diets, glucose homeostasis, and nonalcoholic fatty liver disease. Current Opinion in Clinical Nutrition and Metabolic Care, 2012, 15, 374-380.	1.3	81
26	Metabolic and Signaling Roles of Ketone Bodies in Health and Disease. Annual Review of Nutrition, 2021, 41, 49-77.	4.3	81
27	The DEAD Box Protein DP103 Is a Regulator of Steroidogenic Factor-1. Molecular Endocrinology, 2001, 15, 69-79.	3.7	74
28	Role of Steroidogenic-Factor 1 in Basal and 3â€²,5â€²-Cyclic Adenosine Monophosphate-Mediated Regulation of Cytochrome P450 Side-Chain Cleavage Enzyme in the Mouse1. Biology of Reproduction, 1997, 57, 765-771.	1.2	70
29	Characterization of the Promoter of SF-1, an Orphan Nuclear Receptor Required for Adrenal and Gonadal Development. Molecular Endocrinology, 1997, 11, 117-126.	3.7	68
30	Coordinated regulation of the metabolome and lipidome at the host-microbial interface. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2010, 1801, 240-245.	1.2	61
31	DEAD-Box Protein-103 (DP103, Ddx20) Is Essential for Early Embryonic Development and Modulates Ovarian Morphology and Function. Endocrinology, 2008, 149, 2168-2175.	1.4	55
32	Isotope Tracing Untargeted Metabolomics Reveals Macrophage Polarization-State-Specific Metabolic Coordination across Intracellular Compartments. IScience, 2018, 9, 298-313.	1.9	53
33	Successful adaptation to ketosis by mice with tissue-specific deficiency of ketone body oxidation. American Journal of Physiology - Endocrinology and Metabolism, 2013, 304, E363-E374.	1.8	52
34	Hepatic ketogenic insufficiency reprograms hepatic glycogen metabolism and the lipidome. JCI Insight, 2018, 3, .	2.3	51
35	Ketone bodies as epigenetic modifiers. Current Opinion in Clinical Nutrition and Metabolic Care, 2018, 21, 260-266.	1.3	50
36	Altered systemic ketone body metabolism in advanced heart failure. Texas Heart Institute Journal, 2011, 38, 533-8.	0.1	50

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37	Intraâ€•and interâ€subject variability for increases in serum ketone bodies in patients with type 2 diabetes treated with the sodium glucose coâ€transporter 2 inhibitor canagliflozin. Diabetes, Obesity and Metabolism, 2018, 20, 1321-1326.	2.2	47
38	Pimozide Alleviates Hyperglycemia in Diet-Induced Obesity by Inhibiting Skeletal Muscle Ketone Oxidation. Cell Metabolism, 2020, 31, 909-919.e8.	7.2	37
39	Role of Choline Deficiency in the Fatty LiverÂPhenotype of Mice Fed a Low Protein, Very Low Carbohydrate Ketogenic Diet. PLoS ONE, 2013, 8, e74806.	1.1	36
40	Comprehensive and Quantitative Analysis of Polyphosphoinositide Species by Shotgun Lipidomics Revealed Their Alterations in <i>db/db</i> Mouse Brain. Analytical Chemistry, 2016, 88, 12137-12144.	3.2	33
41	PGC-1Î² and ChREBP partner to cooperatively regulate hepatic lipogenesis in a glucose concentration-dependent manner. Molecular Metabolism, 2013, 2, 194-204.	3.0	31
42	Ketone body oxidation increases cardiac endothelial cell proliferation. EMBO Molecular Medicine, 2022, 14, e14753.	3.3	31
43	Liver-Specific PGC-1beta Deficiency Leads to Impaired Mitochondrial Function and Lipogenic Response to Fasting-Refeeding. PLoS ONE, 2012, 7, e52645.	1.1	28
44	Akt2 deficiency promotes cardiac induction of Rab4a and myocardial Î²-adrenergic hypersensitivity. Journal of Molecular and Cellular Cardiology, 2010, 49, 931-940.	0.9	26
45	Impairments of hepatic gluconeogenesis and ketogenesis in PPARÎ±-deficient neonatal mice. American Journal of Physiology - Endocrinology and Metabolism, 2014, 307, E176-E185.	1.8	26
46	Determination of ketone bodies in biological samples via rapid UPLC-MS/MS. Talanta, 2021, 225, 122048.	2.9	24
47	Diminished ketone interconversion, hepatic TCA cycle flux, and glucose production in D-Î²-hydroxybutyrate dehydrogenase hepatocyte-deficient mice. Molecular Metabolism, 2021, 53, 101269.	3.0	17
48	Impact of Peripheral Ketolytic Deficiency on Hepatic Ketogenesis and Gluconeogenesis during the Transition to Birth. Journal of Biological Chemistry, 2013, 288, 19739-19749.	1.6	16
49	Lipidomics reveals a systemic energy deficient state that precedes neurotoxicity in neonatal monkeys after sevoflurane exposure. Analytica Chimica Acta, 2018, 1037, 87-96.	2.6	16
50	Metabolic stress in the myocardium: Adaptations of gene expression. Journal of Molecular and Cellular Cardiology, 2013, 55, 130-138.	0.9	13
51	Acute aerobic exercise reveals that FAHFAs distinguish the metabolomes of overweight and normal-weight runners. JCI Insight, 2022, 7, .	2.3	11
52	Pyruvate Carboxylase Wields a Double-Edged Metabolic Sword. Cell Metabolism, 2019, 29, 1236-1238.	7.2	10
53	Artifactual FA dimers mimic FAHFA signals in untargeted metabolomics pipelines. Journal of Lipid Research, 2022, 63, 100201.	2.0	9
54	Krebs takes a turn at cell differentiation. Cell Metabolism, 2022, 34, 658-660.	7.2	8

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55	Transport-exclusion pharmacology to localize lactate dehydrogenase activity within cells. Cancer & Metabolism, 2018, 6, 19.	2.4	6
56	Refueling the Failing Heart. JACC Basic To Translational Science, 2018, 3, 588-590.	1.9	6
57	Application of Stable Isotope Labels for Metabolomics in Studies in Fatty Liver Disease. Methods in Molecular Biology, 2019, 1996, 259-272.	0.4	4
58	Developmental and Physiologic Roles of the Nuclear Receptor Steroidogenic Factor-l in the Reproductive System. Journal of the Society for Gynecologic Investigation, 1998, 5, 6-12.	1.9	3
59	Ketone Body Metabolism in the Neonate. , 2017, , 370-379.e4.		3
60	Ketogenic therapies for lymphedema?. Nature Metabolism, 2019, 1, 656-657.	5.1	3
61	Steroidogenic Factor 1 is a Monomeric Orphan, But Does Not Work Alone. Endocrine Research, 2000, 26, 1003-1004.	0.6	0