Richard L Veech

List of Publications by Year
in descending order

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56 papers	4,708 citations	126907 33 h-index	149698 56 g-index
57 all docs	57 docs citations	57 times ranked	4539 citing authors

#	Article	IF	Citations
1	The therapeutic implications of ketone bodies: the effects of ketone bodies in pathological conditions: ketosis, ketogenic diet, redox states, insulin resistance, and mitochondrial metabolism. Prostaglandins Leukotrienes and Essential Fatty Acids, 2004, 70, 309-319.	2.2	578
2	Nutritional Ketosis Alters Fuel Preference and Thereby Endurance Performance in Athletes. Cell Metabolism, 2016, 24, 256-268.	16.2	377
3	Ketone Bodies, Potential Therapeutic Uses. IUBMB Life, 2001, 51, 241-247.	3.4	374
4	A ketone ester diet exhibits anxiolytic and cognition-sparing properties, and lessens amyloid and tau pathologies in a mouse model of Alzheimer's disease. Neurobiology of Aging, 2013, 34, 1530-1539.	3.1	277
5	Kinetics, safety and tolerability of (R)-3-hydroxybutyl (R)-3-hydroxybutyrate in healthy adult subjects. Regulatory Toxicology and Pharmacology, 2012, 63, 401-408.	2.7	243
6	Stabilization of Cytochrome P450j Messenger Ribonucleic Acid in the Diabetic Rat. Molecular Endocrinology, 1987, 1, 542-547.	3.7	200
7	The Concentration of Malonyl-Coenzyme A and the Control of Fatty Acid Synthesis in Vivo. Journal of Biological Chemistry, 1972, 247, 7325-7331.	3.4	169
8	Activated FOXO-mediated insulin resistance is blocked by reduction of TOR activity. Cell Metabolism, 2006, 4, 133-142.	16.2	161
9	A new way to produce hyperketonemia: Use of ketone ester in a case of Alzheimer's disease. Alzheimer's and Dementia, 2015, 11, 99-103.	0.8	158
10	Ketoacids? Good medicine?. Transactions of the American Clinical and Climatological Association, 2003, 114, 149-61; discussion 162-3.	0.5	156
11	A PRDM16-Driven Metabolic Signal from Adipocytes Regulates Precursor Cell Fate. Cell Metabolism, 2019, 30, 174-189.e5.	16.2	141
12	Novel ketone diet enhances physical and cognitive performance. FASEB Journal, 2016, 30, 4021-4032.	0.5	132
13	Ketone bodies mimic the life span extending properties of caloric restriction. IUBMB Life, 2017, 69, 305-314.	3.4	131
14	Increased uncoupling proteins and decreased efficiency in palmitate-perfused hyperthyroid rat heart. American Journal of Physiology - Heart and Circulatory Physiology, 2001, 280, H977-H983.	3.2	121
15	Mitochondrial biogenesis and increased uncoupling protein 1 in brown adipose tissue of mice fed a ketone ester diet. FASEB Journal, 2012, 26, 2351-2362.	0.5	101
16	The metabolism of lactate. NMR in Biomedicine, 1991, 4, 53-58.	2.8	85
17	Diet modulates brain network stability, a biomarker for brain aging, in young adults. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 6170-6177.	7.1	85
18	Effects of a dietary ketone ester on hippocampal glycolytic and tricarboxylic acid cycle intermediates and amino acids in a 3xTg<scp>AD</scp> mouse model of Alzheimer's disease. Journal of Neurochemistry, 2017, 141, 195-207.	3.9	83

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19	A Ketone Ester Diet Increases Brain Malonyl-CoA and Uncoupling Proteins 4 and 5 while Decreasing Food Intake in the Normal Wistar Rat. Journal of Biological Chemistry, 2010, 285, 25950-25956.	3.4	78
20	Oral 28-day and developmental toxicity studies of (R)-3-hydroxybutyl (R)-3-hydroxybutyrate. Regulatory Toxicology and Pharmacology, 2012, 63, 196-208.	2.7	76
21	Substrate Signaling by Insulin. American Journal of Cardiology, 1997, 80, 50A-64A.	1.6	74
22	Lactate-stimulated ethanol oxidation in isolated hepatocytes. Biochemical Journal, 1978, 172, 29-36.	3.7	62
23	A ketogenic diet increases brown adipose tissue mitochondrial proteins and UCP1 levels in mice. IUBMB Life, 2013, 65, 58-66.	3.4	62
24	Metabolite Regulation of Nuclear Localization of Carbohydrate-response Element-binding Protein (ChREBP). Journal of Biological Chemistry, 2016, 291, 10515-10527.	3.4	58
25	Carbohydrate-response Element-binding Protein Deletion Alters Substrate Utilization Producing an Energy-deficient Liver. Journal of Biological Chemistry, 2008, 283, 1670-1678.	3.4	50
26	Ketone ester effects on metabolism and transcription. Journal of Lipid Research, 2014, 55, 2004-2006.	4.2	49
27	Brown and Brite: The Fat Soldiers in the Anti-obesity Fight. Frontiers in Physiology, 2019, 10, 38.	2.8	49
28	Relationship of free cytoplasmic pyrophosphate to liver glucose content and total pyrophosphate to cytoplasmic phosphorylation potential. FEBS Letters, 1980, 117, K65-K72.	2.8	48
29	Neurocardiac toxicity of racemicd,l-lactate fluids. Integrative Psychological and Behavioral Science, 1994, 29, 383-394.	0.3	45
30	The Energetics of Ion Distribution: The Origin of the Resting Electric Potential of Cells. IUBMB Life, 2002, 54, 241-252.	3.4	44
31	The â€œgreatâ€•controlling nucleotide coenzymes. IUBMB Life, 2019, 71, 565-579.	3.4	40
32	The Effect of pH and Free Mg²⁺ on ATP Linked Enzymes and the Calculation of Gibbs Free Energy of ATP Hydrolysis. Journal of Physical Chemistry B, 2010, 114, 16137-16146.	2.6	36
33	The determination of the redox states and phosphorylation potential in living tissues and their relationship to metabolic control of disease phenotypes. Biochemistry and Molecular Biology Education, 2006, 34, 168-179.	1.2	34
34	Alterations in Brain Glucose Utilization Accompanying Elevations in Blood Ethanol and Acetate Concentrations in the Rat. Alcoholism: Clinical and Experimental Research, 2010, 34, 375-381.	2.4	34
35	A humble hexose monophosphate pathway metabolite regulates short- and long-term control of lipogenesis. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 5578-5580.	7.1	33
36	The resting membrane potential of cells are measures of electrical work, not of ionic currents. Integrative Psychological and Behavioral Science, 1995, 30, 283-307.	0.3	28

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37	The mitochondrial permeability transition pore provides a key to the diagnosis and treatment of traumatic brain injury. IUBMB Life, 2012, 64, 203-207.	3.4	24
38	Redox and Phosphorylation States and Metabolite Concentrations in Frozen Clamped Livers of Rats Fed Diets Containing 1,3-Butanediol and DL-Carnitine. Journal of Nutrition, 1972, 102, 45-51.	2.9	22
39	An Ester of Î²â€Hydroxybutyrate Regulates Cholesterol Biosynthesis in Rats and a Cholesterol Biomarker in Humans. Lipids, 2015, 50, 1185-1193.	1.7	22
40	The Effect of Short Chain Fatty Acid Administration on Hepatic Glucose, Phosphate, Magnesium and Calcium Metabolism. Advances in Experimental Medicine and Biology, 1986, 194, 617-646.	1.6	21
41	Metabolic Hyperpolarization of Liver by Ethanol: The Importance of Mg2+ and H+ in Determining Impermeant Intracellular Anionic Charge and Energy of Metabolic Reactions. Alcoholism: Clinical and Experimental Research, 1994, 18, 1040-1056.	2.4	20
42	Ketone Ester Dâ€Î²â€Hydroxybutyrateâ€(R)â€1,3 Butanediol Prevents Decline in Cardiac Function in Type 2 Diabetic Mice. Journal of the American Heart Association, 2021, 10, e020729.	3.7	19
43	Ketone esters increase brown fat in mice and overcome insulin resistance in other tissues in the rat. Annals of the New York Academy of Sciences, 2013, 1302, 42-48.	3.8	15
44	Radiometric measurement of phosphoribosylpyrophosphate and ribose 5-phosphate by enzymatic procedures. Analytical Biochemistry, 1990, 187, 179-186.	2.4	13
45	Microwave irradiation decreases <scp>ATP</scp>, increases free [Mg²⁺], and alters in vivo intracellular reactions in rat brain. Journal of Neurochemistry, 2012, 123, 668-675.	3.9	13
46	Comparison of the Effects of a 50% Exchange-Transfusion with Albumin, Hetastarch, and Modified Hemoglobin Solutions. Shock, 2002, 17, 61-69.	2.1	12
47	Enzymatic determination of total CO2 in freeze-clamped animal tissues and plasma. Analytical Biochemistry, 1991, 195, 232-237.	2.4	9
48	Relationship between inorganic ion distribution, resting membrane potential, and the Î”G' of ATP hydrolysis: a new paradigm. FASEB Journal, 2019, 33, 13126-13130.	0.5	9
49	Effect of chronic ethanol administration on cholesterol and bile acid synthesis in vivo. Lipids, 1978, 13, 134-136.	1.7	8
50	Severe adverse events associated with hemoglobin based oxygen carriers: Role of resuscitative fluids and liquid preserved RBC. Transfusion and Apheresis Science, 2008, 39, 205-211.	1.0	7
51	Effects of the Resuscitation Fluid and the Hemoglobin Based Oxygen Carrier (HBOC) Excipient on the Toxicity of the HBOC: Ringer'sD,L-Lactate, Ringer'sL-Lactate, and Ringer's Ketone Solutions. Artificial Cells, Blood Substitutes, and Biotechnology, 2006, 34, 601-606.	0.9	6
52	The unrecognized effects of the volume and composition of the resuscitation fluid used during the administration of blood products. Transfusion and Apheresis Science, 2012, 46, 121-123.	1.0	6
53	Metabolic Complexities in Cardiac Imaging. Circulation, 1995, 91, 2299-2301.	1.6	3
54	Altered Expression of HLA Antigens and CD16 Fc Receptors on Leukocytes of Alcoholic Subjects and Uremic Patients. Alcoholism: Clinical and Experimental Research, 1991, 15, 790-795.	2.4	2

#	Article	IF	Citations
55	Interleukin 6 alleviates hepatic steatosis and ischemia/reperfusion injury in mice with fatty liver disease. Hepatology, 2004, 40, 933-941.	7.3	2
56	Effect of acetate on hepatic inorganic ion content. Biochemical Society Transactions, 1988, 16, 577-578.	3.4	0