

Dwight E Matthews

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8481276/publications.pdf>

Version: 2024-02-01

118
papers

8,613
citations

50244

46
h-index

42364

92
g-index

123
all docs

123
docs citations

123
times ranked

9149
citing authors

#	ARTICLE	IF	CITATIONS
1	Discrepancy between Self-Reported and Actual Caloric Intake and Exercise in Obese Subjects. <i>New England Journal of Medicine</i> , 1992, 327, 1893-1898.	13.9	1,127
2	Isotope-ratio-monitoring gas chromatography-mass spectrometry. <i>Analytical Chemistry</i> , 1978, 50, 1465-1473.	3.2	461
3	Relationship of plasma leucine and $\hat{1}\pm$ -ketoisocaproate during a L-[1-13C]leucine infusion in man: A method for measuring human intracellular leucine tracer enrichment. <i>Metabolism: Clinical and Experimental</i> , 1982, 31, 1105-1112.	1.5	417
4	Phosphorylation by p38 MAPK as an Alternative Pathway for GSK3 $\hat{1}^2$ Inactivation. <i>Science</i> , 2008, 320, 667-670.	6.0	414
5	Dynamic redox control of NF- \hat{A} B through glutaredoxin-regulated S-glutathionylation of inhibitory \hat{A} B kinase beta. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 13086-13091.	3.3	397
6	Metabolic Labeling of Mammalian Organisms with Stable Isotopes for Quantitative Proteomic Analysis. <i>Analytical Chemistry</i> , 2004, 76, 4951-4959.	3.2	367
7	Low Dose Leptin Administration Reverses Effects of Sustained Weight-Reduction on Energy Expenditure and Circulating Concentrations of Thyroid Hormones. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2002, 87, 2391-2394.	1.8	347
8	Insulin-mediated reduction of whole body protein breakdown. Dose-response effects on leucine metabolism in postabsorptive men.. <i>Journal of Clinical Investigation</i> , 1985, 76, 2306-2311.	3.9	336
9	Pathogenesis of glucose intolerance and diabetes mellitus in cirrhosis. <i>Hepatology</i> , 1994, 19, 616-627.	3.6	249
10	Role of counterregulatory hormones in the catabolic response to stress.. <i>Journal of Clinical Investigation</i> , 1984, 74, 2238-2248.	3.9	206
11	Literacy and Body Fatness are Associated with Underreporting of Energy Intake in US Low-Income Women Using the Multiple-Pass 24-hour Recall. <i>Journal of the American Dietetic Association</i> , 1998, 98, 1136-1140.	1.3	178
12	Chromium Picolinate Supplementation Attenuates Body Weight Gain and Increases Insulin Sensitivity in Subjects With Type 2 Diabetes. <i>Diabetes Care</i> , 2006, 29, 1826-1832.	4.3	176
13	In-person vs Telephone-administered Multiple-pass 24-hour Recalls in Women. <i>Journal of the American Dietetic Association</i> , 2000, 100, 777-783.	1.3	166
14	Visceral Adipose Tissue Is an Independent Correlate of Glucose Disposal in Older Obese Postmenopausal Women1. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2000, 85, 2378-2384.	1.8	136
15	Age-related differences in skeletal muscle protein synthesis: relation to markers of immune activation. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2005, 288, E883-E891.	1.8	132
16	Visceral Adipose Tissue Is an Independent Correlate of Glucose Disposal in Older Obese Postmenopausal Women. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2000, 85, 2378-2384.	1.8	128
17	Assessment of physical activity in older individuals: a doubly labeled water study. <i>Journal of Applied Physiology</i> , 1999, 86, 2090-2096.	1.2	117
18	An Overview of Phenylalanine and Tyrosine Kinetics in Humans. <i>Journal of Nutrition</i> , 2007, 137, 1549S-1555S.	1.3	112

#	ARTICLE	IF	CITATIONS
19	Measurement of the Isotope Enrichment of Stable Isotope-Labeled Proteins Using High-Resolution Mass Spectra of Peptides. <i>Analytical Chemistry</i> , 2005, 77, 7646-7653.	3.2	109
20	Insulin resistance in cirrhosis: Prolonged reduction of hyperinsulinemia normalizes insulin sensitivity. <i>Hepatology</i> , 1998, 28, 141-149.	3.6	102
21	Glucose and insulin effects on de novo amino acid synthesis in young men: Studies with stable isotope labeled alanine, glycine, leucine, and lysine. <i>Metabolism: Clinical and Experimental</i> , 1982, 31, 1210-1218.	1.5	100
22	Effects of estradiol and progesterone on body composition, protein synthesis, and lipoprotein lipase in rats. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2001, 280, E496-E501.	1.8	96
23	Whole body leucine and lysine metabolism studied with [1-13C]leucine and [\pm -15N]lysine: Response in healthy young men given excess energy intake. <i>Metabolism: Clinical and Experimental</i> , 1981, 30, 783-791.	1.5	93
24	Measurement of Homocysteine Concentrations and Stable Isotope Tracer Enrichments in Human Plasma. <i>Analytical Chemistry</i> , 1999, 71, 4527-4533.	3.2	92
25	Low Dose Leptin Administration Reverses Effects of Sustained Weight-Reduction on Energy Expenditure and Circulating Concentrations of Thyroid Hormones. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2002, 87, 2391-2391.	1.8	80
26	Observations of Branched-Chain Amino Acid Administration in Humans. <i>Journal of Nutrition</i> , 2005, 135, 1580S-1584S.	1.3	79
27	Estimating daily energy expenditure in individuals with amyotrophic lateral sclerosis. <i>American Journal of Clinical Nutrition</i> , 2014, 99, 792-803.	2.2	79
28	Mitochondrial ATP fuels ABC transporter-mediated drug efflux in cancer chemoresistance. <i>Nature Communications</i> , 2021, 12, 2804.	5.8	77
29	Weight loss in postmenopausal obesity: no adverse alterations in body composition and protein metabolism. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2000, 279, E124-E131.	1.8	72
30	Growth Velocity, Fat-Free Mass and Energy Intake Are Inversely Related to Viral Load in HIV-Infected Children. <i>Journal of Nutrition</i> , 2000, 130, 2498-2502.	1.3	68
31	Nonhepatic glucose production in humans. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2004, 286, E129-E135.	1.8	64
32	Proteomic profiling of acrolein adducts in human lung epithelial cells. <i>Journal of Proteomics</i> , 2011, 74, 2380-2394.	1.2	64
33	Leukocyte endogenous mediator alters protein dynamics in rats. <i>Metabolism: Clinical and Experimental</i> , 1983, 32, 654-660.	1.5	63
34	Quantitative MS for Proteomics: Teaching a New Dog Old Tricks. <i>Analytical Chemistry</i> , 2005, 77, 294 A-302 A.	3.2	63
35	Energy requirements and physical activity in free-living older women and men: a doubly labeled water study. <i>Journal of Applied Physiology</i> , 1998, 85, 1063-1069.	1.2	61
36	Dynamic aspects of whole body glycine metabolism: Influence of protein intake in young adult and elderly males. <i>Metabolism: Clinical and Experimental</i> , 1980, 29, 1087-1094.	1.5	60

#	ARTICLE	IF	CITATIONS
37	A mass spectrometric method for measuring glycerol levels and enrichments in plasma using ¹³ C and ² H stable isotopic tracers. <i>Analytical Biochemistry</i> , 1992, 205, 172-178.	1.1	57
38	Measurement of intracellular sulfur amino acid metabolism in humans. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2001, 280, E947-E955.	1.8	57
39	Effect of leucine on amino acid and glucose metabolism in humans. <i>Metabolism: Clinical and Experimental</i> , 1992, 41, 643-648.	1.5	55
40	Nitric Oxide Regulation of MMP-9 Activation and Its Relationship to Modifications of the Cysteine Switch. <i>Biochemistry</i> , 2008, 47, 5832-5840.	1.2	55
41	Determination of Complex Isotopomer Patterns in Isotopically Labeled Compounds by Mass Spectrometry. <i>Analytical Chemistry</i> , 2005, 77, 6435-6444.	3.2	53
42	Effects of meal consumption on whole body leucine and alanine kinetics in young adult men. <i>British Journal of Nutrition</i> , 1985, 53, 31-38.	1.2	52
43	Glucose resistance contributes to diabetes mellitus in cirrhosis. <i>Hepatology</i> , 1993, 18, 284-291.	3.6	52
44	Whole body leucine metabolism in adolescents with Crohn's disease and growth failure during nutritional supplementation. <i>Gastroenterology</i> , 1982, 82, 1359-1368.	0.6	48
45	Glucose and amino acid metabolism in aging man: Differential effects of insulin. <i>Metabolism: Clinical and Experimental</i> , 1988, 37, 371-377.	1.5	48
46	The Role of Human Growth Hormone in the Regulation of Cholesterol and Bile Acid Metabolism*. <i>Journal of Clinical Endocrinology and Metabolism</i> , 1983, 57, 885-891.	1.8	46
47	Glutamine and glutamate nitrogen exchangeable pools in cultured fibroblasts: A stable isotope study. <i>Journal of Cellular Physiology</i> , 1988, 134, 143-148.	2.0	46
48	Review of Lysine Metabolism with a Focus on Humans. <i>Journal of Nutrition</i> , 2020, 150, 2548S-2555S.	1.3	44
49	Retention of Carbon and Alteration of Expected ¹³ C-Tracer Enrichments by Silylated Derivatives Using Continuous-Flow Combustion-Isotope Ratio Mass Spectrometry. <i>Analytical Chemistry</i> , 2002, 74, 6244-6251.	3.2	42
50	Bioavailability of dietary urea nitrogen in the infant. <i>Journal of Pediatrics</i> , 1987, 111, 221-224.	0.9	40
51	Unexplained Disturbance in Body Weight Regulation. <i>Journal of the American Dietetic Association</i> , 1995, 95, 1393-1400.	1.3	40
52	Absence of glutamine isotopic steady state: implications for the assessment of whole-body glutamine production rate. <i>Clinical Science</i> , 1998, 95, 339.	1.8	40
53	Skeletal muscle myofibrillar protein metabolism in heart failure: relationship to immune activation and functional capacity. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2005, 288, E685-E692.	1.8	40
54	Bioavailability of dietary urea nitrogen in the breast-fed infant. <i>Journal of Pediatrics</i> , 1988, 113, 515-517.	0.9	38

#	ARTICLE	IF	CITATIONS
55	Protein and substrate metabolism during starvation and parenteral refeeding. <i>Clinical Science</i> , 1988, 74, 123-132.	1.8	38
56	Determination of steady-state protein breakdown rate in vivo by the disappearance of protein-bound tracer-labeled amino acids: a method applicable in humans. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2013, 304, E895-E907.	1.8	38
57	Determinants of insulin-stimulated glucose disposal in middle-aged, premenopausal women. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2001, 281, E113-E121.	1.8	36
58	Absence of glutamine isotopic steady state: implications for the assessment of whole-body glutamine production rate. <i>Clinical Science</i> , 1998, 95, 339-346.	1.8	35
59	Trp64Arg Variant of the β 3-Adrenoceptor and Insulin Resistance in Obese Postmenopausal Women ¹ . <i>Journal of Clinical Endocrinology and Metabolism</i> , 1998, 83, 4002-4005.	1.8	33
60	Hypertonic nasogastric tube feedings. <i>Critical Care Medicine</i> , 1990, 18, 1378-1382.	0.4	32
61	The Hsp90 co-chaperone p23 of <i>Toxoplasma gondii</i> : Identification, functional analysis and dynamic interactome determination. <i>Molecular and Biochemical Parasitology</i> , 2010, 172, 129-140.	0.5	32
62	Lipidomic evidence that lowering the typical dietary palmitate to oleate ratio in humans decreases the leukocyte production of proinflammatory cytokines and muscle expression of redox-sensitive genes. <i>Journal of Nutritional Biochemistry</i> , 2015, 26, 1599-1606.	1.9	32
63	Energy Requirements and Physical Activity of Older Free-Living African-Americans: A Doubly Labeled Water Study ¹ . <i>Journal of Clinical Endocrinology and Metabolism</i> , 1998, 83, 1529-1534.	1.8	31
64	Evaluation and Optimization of Ion-Current Ratio Measurements by Selected-Ion-Monitoring Mass Spectrometry. <i>Analytical Chemistry</i> , 2001, 73, 2976-2984.	3.2	31
65	Impaired muscle protein anabolic response to insulin and amino acids in heart failure patients: relationship with markers of immune activation. <i>Clinical Science</i> , 2010, 119, 467-476.	1.8	31
66	Effects of Intravenous Glucose on Whole Body Leucine Dynamics, Studied With 1- ¹³ C-Leucine, in Healthy Young and Elderly Adults. <i>Journal of Gerontology</i> , 1984, 39, 673-681.	2.0	27
67	The role of glucose, long-chain triglycerides and amino acids for promotion of amino acid balance across peripheral tissues in man. <i>Clinical Physiology</i> , 1999, 19, 311-320.	0.7	27
68	Quantification of Protein Phosphorylation by Liquid Chromatography- ¹⁵ N Mass Spectrometry. <i>Analytical Chemistry</i> , 2008, 80, 5864-5872.	3.2	27
69	Impact of ² H and ¹⁸ O Pool Size Determinations on the Calculation of Total Energy Expenditure. <i>Obesity</i> , 1995, 3, 21-29.	4.0	24
70	Glucagon increases glutamine uptake without affecting glutamine release in humans. <i>Metabolism: Clinical and Experimental</i> , 1998, 47, 713-723.	1.5	24
71	Increased energy expenditure in a patient with diencephalic syndrome. <i>Journal of Pediatrics</i> , 1993, 122, 922-924.	0.9	23
72	Relationship of creatine kinase to body composition, disease state, and longevity in ALS. <i>Amyotrophic Lateral Sclerosis and Frontotemporal Degeneration</i> , 2015, 16, 473-477.	1.1	23

#	ARTICLE	IF	CITATIONS
73	Effect of heart failure on the regulation of skeletal muscle protein synthesis, breakdown, and apoptosis. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2003, 284, E1001-E1008.	1.8	22
74	Vitamin B-6 restriction tends to reduce the red blood cell glutathione synthesis rate without affecting red blood cell or plasma glutathione concentrations in healthy men and women. <i>American Journal of Clinical Nutrition</i> , 2009, 90, 336-343.	2.2	21
75	Regulation of Protein Metabolism in Middle-Aged, Premenopausal Women: Roles of Adiposity and Estradiol. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2000, 85, 1382-1387.	1.8	20
76	Differential effects of the cystic fibrosis lung inflammatory environment on mesenchymal stromal cells. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2020, 319, L908-L925.	1.3	20
77	Splanchnic utilization of enteral alanine in humans. <i>Metabolism: Clinical and Experimental</i> , 1999, 48, 915-921.	1.5	17
78	Exercise-Mediated Peripheral Tissue and Whole-Body Amino Acid Metabolism during Intravenous Feeding in Normal Man. <i>Clinical Science</i> , 1989, 77, 113-120.	1.8	16
79	Urinary 3-Methylhistidine Excretion: Association With Total Body Skeletal Muscle Mass by Computerized Axial Tomography. <i>Journal of Parenteral and Enteral Nutrition</i> , 1998, 22, 82-86.	1.3	15
80	The Influence of Substrate Background on the Acute Metabolic Response to Epinephrine and Cortisol. <i>Journal of Trauma</i> , 1991, 31, 1467-1476.	2.3	14
81	Recovery of $^{13}\text{CO}_2$ from infused [^{13}C]leucine and [^{13}C]leucine in healthy humans. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2001, 281, E233-E241.	1.8	14
82	The effect of glutamine on protein balance and amino acid flux across arm and leg tissues in healthy volunteers. <i>Clinical Physiology</i> , 2001, 21, 478-489.	0.7	13
83	Whole-Body Protein Metabolism in Chronic Heart Failure: Relationship to Anabolic and Catabolic Hormones. <i>Journal of Parenteral and Enteral Nutrition</i> , 2006, 30, 194-201.	1.3	13
84	Ovarian suppression with gonadotropin-releasing hormone agonist reduces whole body protein turnover in women. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2006, 291, E483-E490.	1.8	13
85	Effect of ovarian suppression with gonadotropin-releasing hormone agonist on glucose disposal and insulin secretion. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2008, 294, E1035-E1045.	1.8	11
86	Disulfide reduction abolishes tissue factor cofactor function. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2013, 1830, 3489-3496.	1.1	11
87	An N-terminally truncated form of cyclic GMP-dependent protein kinase $\hat{\text{I}}\pm$ (PKG $\hat{\text{I}}\pm$) is monomeric and autoinhibited and provides a model for activation. <i>Journal of Biological Chemistry</i> , 2018, 293, 7916-7929.	1.6	11
88	Role of ovarian hormones in the regulation of protein metabolism in women: effects of menopausal status and hormone replacement therapy. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2006, 291, E639-E646.	1.8	10
89	Leucine Metabolism in Man: Lessons from Modeling. <i>Journal of Parenteral and Enteral Nutrition</i> , 1991, 15, 86S-89S.	1.3	8
90	Epinephrine Transiently Increases Amino Acid Disappearance to Lower Amino Acid Levels in Humans. <i>Journal of Parenteral and Enteral Nutrition</i> , 1999, 23, 279-287.	1.3	8

#	ARTICLE	IF	CITATIONS
91	Total energy expenditure as measured by doubly-labeled water in outpatients with bulimia nervosa. <i>International Journal of Eating Disorders</i> , 2001, 29, 470-476.	2.1	8
92	Differences in the fractional abundances of carbohydrates of natural and recombinant human tissue factor. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2011, 1810, 398-405.	1.1	8
93	Hydration measured by doubly labeled water in ALS and its effects on survival. <i>Amyotrophic Lateral Sclerosis and Frontotemporal Degeneration</i> , 2018, 19, 220-231.	1.1	8
94	Total Retention Liquid Chromatographyâ€“Mass Spectrometry to Achieve Maximum Protein Sequence Coverage. <i>Analytical Chemistry</i> , 2021, 93, 5054-5060.	3.2	7
95	Metabolism of parenterally administered fat emulsions in the rat: studies of fatty acid oxidation with 1-13C- and 8-13C-labelled triolein. <i>British Journal of Nutrition</i> , 1998, 79, 381-387.	1.2	5
96	Increased palmitate intake: higher acylcarnitine concentrations without impaired progression of Î²-oxidation. <i>Journal of Lipid Research</i> , 2015, 56, 1795-1807.	2.0	4
97	General Concepts of Protein Metabolism. , 2017, , 436-444.e3.		3
98	Radioactive and Stable Isotope Tracers in Biomedicine: Principles and Practice of Kinetic Analysis. <i>American Journal of Clinical Nutrition</i> , 1993, 58, 452.	2.2	2
99	Methods to measure key sulfur-containing compounds: homocysteine and glutathione. <i>Current Opinion in Clinical Nutrition and Metabolic Care</i> , 2000, 3, 367-369.	1.3	2
100	Techniques to assess in-vivo tissue metabolism directly in humans without biopsy samples. <i>Current Opinion in Clinical Nutrition and Metabolic Care</i> , 2004, 7, 513-514.	1.3	2
101	Glucose resistance contributes to diabetes mellitus in cirrhosis. <i>Hepatology</i> , 1993, 18, 284-291.	3.6	2
102	Can We Define Dietary Requirements of Dispensable Amino Acids?. <i>Journal of Nutrition</i> , 2021, 151, 275-276.	1.3	2
103	What is more exciting than â€“genomicsâ€™? â€“Proteomicsâ€™. <i>Current Opinion in Clinical Nutrition and Metabolic Care</i> , 2001, 4, 339.	1.3	1
104	Assessment of nutritional status and analytical methods. <i>Current Opinion in Clinical Nutrition and Metabolic Care</i> , 2012, 15, 411-412.	1.3	1
105	Focus on Bioinformatics, Software, and MS-Based â€œOmics,â€“Honoring Dr. Michael J. MacCoss, Recipient of the 2015 ASMS Biemann Medal. <i>Journal of the American Society for Mass Spectrometry</i> , 2016, 27, 1715-1718.	1.2	1
106	Uricase Inhibits Nitrogen Dioxideâ€“Promoted Allergic Sensitization to Inhaled Ovalbumin Independent of Uric Acid Catabolism. <i>Journal of Immunology</i> , 2016, 197, 1720-1732.	0.4	1
107	Editorial. <i>Current Opinion in Clinical Nutrition and Metabolic Care</i> , 2017, 20, 311-313.	1.3	1
108	Allosteric Cysteine Oxidation Does Not Play a Role in Tissue Factor Decryption. <i>Blood</i> , 2011, 118, 1174-1174.	0.6	1

#	ARTICLE	IF	CITATIONS
109	Evidence-based medicine: sifting through the literature to reach conclusions is not a simple task. <i>Current Opinion in Clinical Nutrition and Metabolic Care</i> , 2002, 5, 463-446.	1.3	0
110	Editorial comment. <i>Current Opinion in Clinical Nutrition and Metabolic Care</i> , 2014, 17, 387-388.	1.3	0
111	The diversity of methods and instruments in nutrition reflects the broad scope of the discipline. <i>Current Opinion in Clinical Nutrition and Metabolic Care</i> , 2015, 18, 435-436.	1.3	0
112	New advances in analytical methods and assessment tools to identify deficiency and metabolic risk. <i>Current Opinion in Clinical Nutrition and Metabolic Care</i> , 2016, 19, 319-320.	1.3	0
113	Editorial. <i>Current Opinion in Clinical Nutrition and Metabolic Care</i> , 2019, 22, 321-322.	1.3	0
114	Determination of cell volume as part of metabolomics experiments. <i>American Journal of Physiology - Cell Physiology</i> , 2021, 321, C947-C953.	2.1	0
115	General Concepts of Protein Metabolism. , 2004, , 501-509.		0
116	Role of ovarian hormones in the regulation of protein metabolism in women: effects of menopausal status and hormone replacement therapy. <i>FASEB Journal</i> , 2006, 20, .	0.2	0
117	General Concepts of Protein Metabolism. , 2011, , 576-584.		0
118	Urine specific gravity to identify and predict hydration need in ALS. <i>Amyotrophic Lateral Sclerosis and Frontotemporal Degeneration</i> , 2021, , 1-8.	1.1	0