

# Dwight E Matthews

## List of Publications by Year in descending order

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118  
papers

8,613  
citations

50244

46  
h-index

42364

92  
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123  
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123  
docs citations

123  
times ranked

9149  
citing authors

#	ARTICLE	IF	CITATIONS
1	Total Retention Liquid Chromatography–Mass Spectrometry to Achieve Maximum Protein Sequence Coverage. <i>Analytical Chemistry</i> , 2021, 93, 5054-5060.	3.2	7
2	Mitochondrial ATP fuels ABC transporter-mediated drug efflux in cancer chemoresistance. <i>Nature Communications</i> , 2021, 12, 2804.	5.8	77
3	Can We Define Dietary Requirements of Dispensable Amino Acids?. <i>Journal of Nutrition</i> , 2021, 151, 275-276.	1.3	2
4	Determination of cell volume as part of metabolomics experiments. <i>American Journal of Physiology - Cell Physiology</i> , 2021, 321, C947-C953.	2.1	0
5	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
6	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
7	Review of Lysine Metabolism with a Focus on Humans. <i>Journal of Nutrition</i> , 2020, 150, 2548S-2555S.	1.3	44
8	Editorial. <i>Current Opinion in Clinical Nutrition and Metabolic Care</i> , 2019, 22, 321-322.	1.3	0
9	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
10	An N-terminally truncated form of cyclic GMP–dependent protein kinase $\hat{I}\pm$ (PKG $\hat{I}\pm$ ) is monomeric and autoinhibited and provides a model for activation. <i>Journal of Biological Chemistry</i> , 2018, 293, 7916-7929.	1.6	11
11	Editorial. <i>Current Opinion in Clinical Nutrition and Metabolic Care</i> , 2017, 20, 311-313.	1.3	1
12	General Concepts of Protein Metabolism. , 2017, , 436-444.e3.		3
13	Focus on Bioinformatics, Software, and MS-Based –Omics,–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
14	Uricase Inhibits Nitrogen Dioxide–Promoted Allergic Sensitization to Inhaled Ovalbumin Independent of Uric Acid Catabolism. <i>Journal of Immunology</i> , 2016, 197, 1720-1732.	0.4	1
15	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
16	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
17	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
18	Increased palmitate intake: higher acylcarnitine concentrations without impaired progression of $\hat{I}^2$ -oxidation. <i>Journal of Lipid Research</i> , 2015, 56, 1795-1807.	2.0	4

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19	Relationship of creatine kinase to body composition, disease state, and longevity in ALS. Amyotrophic Lateral Sclerosis and Frontotemporal Degeneration, 2015, 16, 473-477.	1.1	23
20	Editorial comment. Current Opinion in Clinical Nutrition and Metabolic Care, 2014, 17, 387-388.	1.3	0
21	Estimating daily energy expenditure in individuals with amyotrophic lateral sclerosis. American Journal of Clinical Nutrition, 2014, 99, 792-803.	2.2	79
22	Disulfide reduction abolishes tissue factor cofactor function. Biochimica Et Biophysica Acta - General Subjects, 2013, 1830, 3489-3496.	1.1	11
23	Determination of steady-state protein breakdown rate in vivo by the disappearance of protein-bound tracer-labeled amino acids: a method applicable in humans. American Journal of Physiology - Endocrinology and Metabolism, 2013, 304, E895-E907.	1.8	38
24	Assessment of nutritional status and analytical methods. Current Opinion in Clinical Nutrition and Metabolic Care, 2012, 15, 411-412.	1.3	1
25	Differences in the fractional abundances of carbohydrates of natural and recombinant human tissue factor. Biochimica Et Biophysica Acta - General Subjects, 2011, 1810, 398-405.	1.1	8
26	Proteomic profiling of acrolein adducts in human lung epithelial cells. Journal of Proteomics, 2011, 74, 2380-2394.	1.2	64
27	Allosteric Cysteine Oxidation Does Not Play a Role in Tissue Factor Decryption. Blood, 2011, 118, 1174-1174.	0.6	1
28	General Concepts of Protein Metabolism. , 2011, , 576-584.		0
29	Impaired muscle protein anabolic response to insulin and amino acids in heart failure patients: relationship with markers of immune activation. Clinical Science, 2010, 119, 467-476.	1.8	31
30	The Hsp90 co-chaperone p23 of Toxoplasma gondii: Identification, functional analysis and dynamic interactome determination. Molecular and Biochemical Parasitology, 2010, 172, 129-140.	0.5	32
31	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. American Journal of Clinical Nutrition, 2009, 90, 336-343.	2.2	21
32	Quantification of Protein Phosphorylation by Liquid Chromatography- <sup>3</sup> Mass Spectrometry. Analytical Chemistry, 2008, 80, 5864-5872.	3.2	27
33	Nitric Oxide Regulation of MMP-9 Activation and Its Relationship to Modifications of the Cysteine Switch. Biochemistry, 2008, 47, 5832-5840.	1.2	55
34	Phosphorylation by p38 MAPK as an Alternative Pathway for GSK3 <sup>β</sup> Inactivation. Science, 2008, 320, 667-670.	6.0	414
35	Effect of ovarian suppression with gonadotropin-releasing hormone agonist on glucose disposal and insulin secretion. American Journal of Physiology - Endocrinology and Metabolism, 2008, 294, E1035-E1045.	1.8	11
36	An Overview of Phenylalanine and Tyrosine Kinetics in Humans. Journal of Nutrition, 2007, 137, 1549S-1555S.	1.3	112

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37	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
38	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
39	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
40	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
41	Dynamic redox control of NF- $\kappa$ B through glutaredoxin-regulated S-glutathionylation of inhibitory $\kappa$ 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
42	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
43	Observations of Branched-Chain Amino Acid Administration in Humans. <i>Journal of Nutrition</i> , 2005, 135, 1580S-1584S.	1.3	79
44	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
45	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
46	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
47	Determination of Complex Isotopomer Patterns in Isotopically Labeled Compounds by Mass Spectrometry. <i>Analytical Chemistry</i> , 2005, 77, 6435-6444.	3.2	53
48	Quantitative MS for Proteomics: Teaching a New Dog Old Tricks. <i>Analytical Chemistry</i> , 2005, 77, 294 A-302 A.	3.2	63
49	Metabolic Labeling of Mammalian Organisms with Stable Isotopes for Quantitative Proteomic Analysis. <i>Analytical Chemistry</i> , 2004, 76, 4951-4959.	3.2	367
50	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
51	Nonhepatic glucose production in humans. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2004, 286, E129-E135.	1.8	64
52	General Concepts of Protein Metabolism. , 2004, , 501-509.		0
53	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
54	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

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55	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
56	Retention of Carbon and Alteration of Expected <sup>13</sup> 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
57	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
58	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
59	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
60	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
61	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
62	Recovery of <sup>13</sup> CO <sub>2</sub> from infused [1- <sup>13</sup> C]leucine and [1,2- <sup>13</sup> C <sub>2</sub> ]leucine in healthy humans. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2001, 281, E233-E241.	1.8	14
63	What is more exciting than "genomics"? "Proteomics". <i>Current Opinion in Clinical Nutrition and Metabolic Care</i> , 2001, 4, 339.	1.3	1
64	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
65	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
66	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
67	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
68	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
69	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
70	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
71	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	136
72	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

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73	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
74	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
75	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
76	Splanchnic utilization of enteral alanine in humans. <i>Metabolism: Clinical and Experimental</i> , 1999, 48, 915-921.	1.5	17
77	Measurement of Homocysteine Concentrations and Stable Isotope Tracer Enrichments in Human Plasma. <i>Analytical Chemistry</i> , 1999, 71, 4527-4533.	3.2	92
78	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
79	Insulin resistance in cirrhosis: Prolonged reduction of hyperinsulinemia normalizes insulin sensitivity. <i>Hepatology</i> , 1998, 28, 141-149.	3.6	102
80	Glucagon increases glutamine uptake without affecting glutamine release in humans. <i>Metabolism: Clinical and Experimental</i> , 1998, 47, 713-723.	1.5	24
81	Urinary $^3\text{H}$ -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
82	Trp64Arg Variant of the $\beta^2$ 3-Adrenoceptor and Insulin Resistance in Obese Postmenopausal Women <sup>1</sup> . <i>Journal of Clinical Endocrinology and Metabolism</i> , 1998, 83, 4002-4005.	1.8	33
83	Energy Requirements and Physical Activity of Older Free-Living African-Americans: A Doubly Labeled Water Study <sup>1</sup> . <i>Journal of Clinical Endocrinology and Metabolism</i> , 1998, 83, 1529-1534.	1.8	31
84	Metabolism of parenterally administered fat emulsions in the rat: studies of fatty acid oxidation with 1- $^{13}\text{C}$ - and 8- $^{13}\text{C}$ -labelled triolein. <i>British Journal of Nutrition</i> , 1998, 79, 381-387.	1.2	5
85	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
86	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
87	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
88	Impact of $^2\text{H}$ and $^{18}\text{O}$ Pool Size Determinations on the Calculation of Total Energy Expenditure. <i>Obesity</i> , 1995, 3, 21-29.	4.0	24
89	Unexplained Disturbance in Body Weight Regulation. <i>Journal of the American Dietetic Association</i> , 1995, 95, 1393-1400.	1.3	40
90	Pathogenesis of glucose intolerance and diabetes mellitus in cirrhosis. <i>Hepatology</i> , 1994, 19, 616-627.	3.6	249

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91	Glucose resistance contributes to diabetes mellitus in cirrhosis. <i>Hepatology</i> , 1993, 18, 284-291.	3.6	52
92	Increased energy expenditure in a patient with diencephalic syndrome. <i>Journal of Pediatrics</i> , 1993, 122, 922-924.	0.9	23
93	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
94	Glucose resistance contributes to diabetes mellitus in cirrhosis. <i>Hepatology</i> , 1993, 18, 284-291.	3.6	2
95	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
96	Effect of leucine on amino acid and glucose metabolism in humans. <i>Metabolism: Clinical and Experimental</i> , 1992, 41, 643-648.	1.5	55
97	A mass spectrometric method for measuring glycerol levels and enrichments in plasma using <sup>13</sup> C and <sup>2</sup> H stable isotopic tracers. <i>Analytical Biochemistry</i> , 1992, 205, 172-178.	1.1	57
98	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
99	Leucine Metabolism in Man: Lessons from Modeling. <i>Journal of Parenteral and Enteral Nutrition</i> , 1991, 15, 86S-89S.	1.3	8
100	Hypertonic nasogastric tube feedings. <i>Critical Care Medicine</i> , 1990, 18, 1378-1382.	0.4	32
101	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
102	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
103	Bioavailability of dietary urea nitrogen in the breast-fed infant. <i>Journal of Pediatrics</i> , 1988, 113, 515-517.	0.9	38
104	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
105	Protein and substrate metabolism during starvation and parenteral refeeding. <i>Clinical Science</i> , 1988, 74, 123-132.	1.8	38
106	Bioavailability of dietary urea nitrogen in the infant. <i>Journal of Pediatrics</i> , 1987, 111, 221-224.	0.9	40
107	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
108	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

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109	Effects of Intravenous Glucose on Whole Body Leucine Dynamics, Studied With 1-13C-Leucine, in Healthy Young and Elderly Adults. <i>Journal of Gerontology</i> , 1984, 39, 673-681.	2.0	27
110	Role of counterregulatory hormones in the catabolic response to stress.. <i>Journal of Clinical Investigation</i> , 1984, 74, 2238-2248.	3.9	206
111	Leukocyte endogenous mediator alters protein dynamics in rats. <i>Metabolism: Clinical and Experimental</i> , 1983, 32, 654-660.	1.5	63
112	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
113	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
114	Relationship of plasma leucine and $\hat{I}\pm$ -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
115	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
116	Whole body leucine and lysine metabolism studied with [1-13C]leucine and [ $\hat{I}\pm$ -15N]lysine: Response in healthy young men given excess energy intake. <i>Metabolism: Clinical and Experimental</i> , 1981, 30, 783-791.	1.5	93
117	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
118	Isotope-ratio-monitoring gas chromatography-mass spectrometry. <i>Analytical Chemistry</i> , 1978, 50, 1465-1473.	3.2	461