

# Kim M Huffman

## List of Publications by Year in descending order

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Version: 2024-02-01

92  
papers

3,580  
citations

159585

30  
h-index

149698

56  
g-index

93  
all docs

93  
docs citations

93  
times ranked

6401  
citing authors

#	ARTICLE	IF	CITATIONS
1	Relationships Between Circulating Metabolic Intermediates and Insulin Action in Overweight to Obese, Inactive Men and Women. <i>Diabetes Care</i> , 2009, 32, 1678-1683.	8.6	362
2	2 years of calorie restriction and cardiometabolic risk (CALERIE): exploratory outcomes of a multicentre, phase 2, randomised controlled trial. <i>Lancet Diabetes and Endocrinology</i> , 2019, 7, 673-683.	11.4	239
3	Association between change in daily ambulatory activity and cardiovascular events in people with impaired glucose tolerance (NAVIGATOR trial): a cohort analysis. <i>Lancet</i> , 2014, 383, 1059-1066.	13.7	186
4	Effects of aerobic vs. resistance training on visceral and liver fat stores, liver enzymes, and insulin resistance by HOMA in overweight adults from STRRIDE AT/RT. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2011, 301, E1033-E1039.	3.5	179
5	Effects of Exercise Training Intensity on Pancreatic $\beta$ -Cell Function. <i>Diabetes Care</i> , 2009, 32, 1807-1811.	8.6	150
6	Large meta-analysis of genome-wide association studies identifies five loci for lean body mass. <i>Nature Communications</i> , 2017, 8, 80.	12.8	147
7	Metabolite signatures of exercise training in human skeletal muscle relate to mitochondrial remodelling and cardiometabolic fitness. <i>Diabetologia</i> , 2014, 57, 2282-2295.	6.3	121
8	Change in the Rate of Biological Aging in Response to Caloric Restriction: CALERIE Biobank Analysis. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2018, 73, 4-10.	3.6	119
9	Impact of combined resistance and aerobic exercise training on branched-chain amino acid turnover, glycine metabolism and insulin sensitivity in overweight humans. <i>Diabetologia</i> , 2015, 58, 2324-2335.	6.3	103
10	Effects of exercise training alone vs a combined exercise and nutritional lifestyle intervention on glucose homeostasis in prediabetic individuals: a randomised controlled trial. <i>Diabetologia</i> , 2016, 59, 2088-2098.	6.3	98
11	Ten weeks of high-intensity interval walk training is associated with reduced disease activity and improved innate immune function in older adults with rheumatoid arthritis: a pilot study. <i>Arthritis Research and Therapy</i> , 2018, 20, 127.	3.5	98
12	A metabolomics comparison of plant-based meat and grass-fed meat indicates large nutritional differences despite comparable Nutrition Facts panels. <i>Scientific Reports</i> , 2021, 11, 13828.	3.3	72
13	The AMPK/p27Kip1 Axis Regulates Autophagy/Apoptosis Decisions in Aged Skeletal Muscle Stem Cells. <i>Stem Cell Reports</i> , 2018, 11, 425-439.	4.8	66
14	Effects of 2 years of caloric restriction on oxidative status assessed by urinary F <sub>2</sub> -isoprostanes: The CALERIE 2 randomized clinical trial. <i>Aging Cell</i> , 2018, 17, e12719.	6.7	65
15	The effects of aerobic, resistance, and combination training on insulin sensitivity and secretion in overweight adults from STRRIDE AT/RT: a randomized trial. <i>Journal of Applied Physiology</i> , 2015, 118, 1474-1482.	2.5	64
16	Molecular alterations in skeletal muscle in rheumatoid arthritis are related to disease activity, physical inactivity, and disability. <i>Arthritis Research and Therapy</i> , 2017, 19, 12.	3.5	63
17	The Impact of Interventions that Integrate Accelerometers on Physical Activity and Weight Loss: A Systematic Review. <i>Annals of Behavioral Medicine</i> , 2017, 51, 79-93.	2.9	63
18	A Novel Protein Glycan-Derived Inflammation Biomarker Independently Predicts Cardiovascular Disease and Modifies the Association of HDL Subclasses with Mortality. <i>Clinical Chemistry</i> , 2017, 63, 288-296.	3.2	60

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19	Response of high-sensitivity C-reactive protein to exercise training in an at-risk population. <i>American Heart Journal</i> , 2006, 152, 793-800.	2.7	57
20	Exercise-Induced Changes in Metabolic Intermediates, Hormones, and Inflammatory Markers Associated With Improvements in Insulin Sensitivity. <i>Diabetes Care</i> , 2011, 34, 174-176.	8.6	51
21	Exercise effects on lipids in persons with varying dietary patterns—does diet matter if they exercise? Responses in Studies of a Targeted Risk Reduction Intervention through Defined Exercise I. <i>American Heart Journal</i> , 2012, 164, 117-124.	2.7	50
22	Effects of caloric restriction on human physiological, psychological, and behavioral outcomes: highlights from CALERIE phase 2. <i>Nutrition Reviews</i> , 2021, 79, 98-113.	5.8	48
23	Plasma Acylcarnitines Are Associated With Physical Performance in Elderly Men. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2011, 66A, 548-553.	3.6	43
24	Stepped Exercise Program for Patients With Knee Osteoarthritis. <i>Annals of Internal Medicine</i> , 2021, 174, 298-307.	3.9	42
25	Effect of Caloric Restriction with and without Exercise on Metabolic Intermediates in Nonobese Men and Women. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2011, 96, E312-E321.	3.6	41
26	Critical Appraisal of Four IL-6 Immunoassays. <i>PLoS ONE</i> , 2012, 7, e30659.	2.5	39
27	A novel inflammatory biomarker, GlycA, associates with disease activity in rheumatoid arthritis and cardio-metabolic risk in BMI-matched controls. <i>Arthritis Research and Therapy</i> , 2016, 18, 86.	3.5	39
28	Disentangling the genetics of lean mass. <i>American Journal of Clinical Nutrition</i> , 2019, 109, 276-287.	4.7	38
29	Caloric Restriction Alters the Metabolic Response to a Mixed-Meal: Results from a Randomized, Controlled Trial. <i>PLoS ONE</i> , 2012, 7, e28190.	2.5	37
30	Impact of baseline physical activity and diet behavior on metabolic syndrome in a pharmaceutical trial: Results from NAVIGATOR. <i>Metabolism: Clinical and Experimental</i> , 2014, 63, 554-561.	3.4	37
31	Benefits and promotion of physical activity in rheumatoid arthritis. <i>Current Opinion in Rheumatology</i> , 2020, 32, 307-314.	4.3	37
32	Relationships between adipose tissue and cytokine responses to a randomized controlled exercise training intervention. <i>Metabolism: Clinical and Experimental</i> , 2008, 57, 577-583.	3.4	29
33	Enhanced Fitness: A Randomized Controlled Trial of the Effects of Home-Based Physical Activity Counseling on Glycemic Control in Older Adults with Prediabetes Mellitus. <i>Journal of the American Geriatrics Society</i> , 2012, 60, 1655-1662.	2.6	29
34	Two Approaches to Classifying and Quantifying Physical Resilience in Longitudinal Data. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2020, 75, 731-738.	3.6	29
35	Physical therapy vs. internet-based exercise training (PATH-IN) for patients with knee osteoarthritis: study protocol of a randomized controlled trial. <i>BMC Musculoskeletal Disorders</i> , 2015, 16, 264.	1.9	28
36	Correction of Biochemical Abnormalities and Improved Muscle Function in a Phase I/II Clinical Trial of Clenbuterol in Pompe Disease. <i>Molecular Therapy</i> , 2018, 26, 2304-2314.	8.2	26

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37	Ten-Year Legacy Effects of Three Eight-Month Exercise Training Programs on Cardiometabolic Health Parameters. <i>Frontiers in Physiology</i> , 2019, 10, 452.	2.8	26
38	Calorie restriction improves lipid-related emerging cardiometabolic risk factors in healthy adults without obesity: Distinct influences of BMI and sex from CALERIEâ„¢, a multicentre, phase 2, randomised controlled trial. <i>EClinicalMedicine</i> , 2022, 43, 101261.	7.1	26
39	Relations of a Marker of Endothelial Activation (s-VCAM) to Function and Mortality in Community-Dwelling Older Adults. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2011, 66A, 1369-1375.	3.6	25
40	Adipose Depots, Not Disease-related Factors, Account for Skeletal Muscle Insulin Sensitivity in Established and Treated Rheumatoid Arthritis. <i>Journal of Rheumatology</i> , 2014, 41, 1974-1979.	2.0	24
41	Safety and Efficacy of Repeat Administration of Triamcinolone Acetonide Extended-release in Osteoarthritis of the Knee: A Phase 3b, Open-label Study. <i>Rheumatology and Therapy</i> , 2019, 6, 109-124.	2.3	24
42	Rejuvenation of Neutrophil Functions in Association With Reduced Diabetes Risk Following Ten Weeks of Low-Volume High Intensity Interval Walking in Older Adults With Prediabetes â€” A Pilot Study. <i>Frontiers in Immunology</i> , 2020, 11, 729.	4.8	23
43	Association of Plasma Small-Molecule Intermediate Metabolites With Age and Body Mass Index Across Six Diverse Study Populations. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2016, 71, 1507-1513.	3.6	22
44	Association of the Composite Inflammatory Biomarker GlycA, with Exercise-Induced Changes in Body Habitus in Men and Women with Prediabetes. <i>Oxidative Medicine and Cellular Longevity</i> , 2017, 2017, 1-12.	4.0	22
45	GlycA measured by NMR spectroscopy is associated with disease activity and cardiovascular disease risk in chronic inflammatory diseases. <i>American Journal of Preventive Cardiology</i> , 2020, 4, 100120.	3.0	21
46	Dietary carbohydrate intake and high-sensitivity C-reactive protein in at-risk women and men. <i>American Heart Journal</i> , 2007, 154, 962-968.	2.7	19
47	Resiliency Groups Following Hip Fracture in Older Adults. <i>Journal of the American Geriatrics Society</i> , 2019, 67, 2519-2527.	2.6	19
48	Fall Risk and Utilization of Balance Training for Adults With Symptomatic Knee Osteoarthritis: Secondary Analysis From a Randomized Clinical Trial. <i>Journal of Geriatric Physical Therapy</i> , 2019, 42, E39-E44.	1.1	19
49	Effect of high-intensity interval training on muscle remodeling in rheumatoid arthritis compared to prediabetes. <i>Arthritis Research and Therapy</i> , 2018, 20, 283.	3.5	18
50	STepped exercise program for patients with knee OsteoArthritis (STEP-KOA): protocol for a randomized controlled trial. <i>BMC Musculoskeletal Disorders</i> , 2019, 20, 254.	1.9	17
51	Does a lack of physical activity explain the rheumatoid arthritis lipid profile?. <i>Lipids in Health and Disease</i> , 2017, 16, 39.	3.0	15
52	Impact of hormone replacement therapy on exercise trainingâ€”induced improvements in insulin action in sedentary overweight adults. <i>Metabolism: Clinical and Experimental</i> , 2008, 57, 888-895.	3.4	14
53	Skeletal muscle capillary density is related to anaerobic threshold and claudication in peripheral artery disease. <i>Vascular Medicine</i> , 2020, 25, 411-418.	1.5	14
54	Skeletal muscle disease in rheumatoid arthritis: the center of cardiometabolic comorbidities?. <i>Current Opinion in Rheumatology</i> , 2020, 32, 297-306.	4.3	14

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55	Plasma MicroRNAs in Established Rheumatoid Arthritis Relate to Adiposity and Altered Plasma and Skeletal Muscle Cytokine and Metabolic Profiles. <i>Frontiers in Immunology</i> , 2019, 10, 1475.	4.8	13
56	Effect of 2 Years of calorie restriction on liver biomarkers: results from the CALERIE phase 2 randomized controlled trial. <i>European Journal of Nutrition</i> , 2021, 60, 1633-1643.	3.9	13
57	Effects of regular endurance exercise on GlycA: Combined analysis of 14 exercise interventions. <i>Atherosclerosis</i> , 2018, 277, 1-6.	0.8	12
58	Identification of cis-Acting Repressor Activity within Human Immunodeficiency Virus Type 1 Protease Sequences. <i>Virology</i> , 1997, 234, 253-260.	2.4	11
59	Effects of Amount, Intensity, and Mode of Exercise Training on Insulin Resistance and Type 2 Diabetes Risk in the STRRIDE Randomized Trials. <i>Frontiers in Physiology</i> , 2021, 12, 626142.	2.8	11
60	Altered skeletal muscle metabolic pathways, age, systemic inflammation, and low cardiorespiratory fitness associate with improvements in disease activity following high-intensity interval training in persons with rheumatoid arthritis. <i>Arthritis Research and Therapy</i> , 2021, 23, 187.	3.5	11
61	Level of participation in physical therapy or an internet-based exercise training program: associations with outcomes for patients with knee osteoarthritis. <i>BMC Musculoskeletal Disorders</i> , 2018, 19, 238.	1.9	10
62	Impact on cardiometabolic risk of a weight loss intervention with higher protein from lean red meat: Combined results of 2 randomized controlled trials in obese middle-aged and older adults. <i>Journal of Clinical Lipidology</i> , 2019, 13, 920-931.	1.5	10
63	Intrinsic Activity of Human Immunodeficiency Virus Type 1 Protease Heterologous Fusion Proteins in Mammalian Cells. <i>DNA and Cell Biology</i> , 1995, 14, 15-23.	1.9	9
64	High-intensity interval training and essential amino acid supplementation: Effects on muscle characteristics and whole-body protein turnover. <i>Physiological Reports</i> , 2021, 9, e14655.	1.7	9
65	Rheumatoid arthritis T cell and muscle oxidative metabolism associate with exercise-induced changes in cardiorespiratory fitness. <i>Scientific Reports</i> , 2022, 12, 7450.	3.3	9
66	Control arms in exercise training studies: transitioning from an era of intervention efficacy to one of comparative clinical effectiveness research. <i>Journal of Applied Physiology</i> , 2011, 111, 946-948.	2.5	8
67	Lessons learned when innovations go awry: a baseline description of a behavioral trial—the Enhancing Fitness in Older Overweight Veterans with Impaired Fasting Glucose study. <i>Translational Behavioral Medicine</i> , 2011, 1, 573-587.	2.4	8
68	Genetic Variation in Acid Ceramidase Predicts Non-completion of an Exercise Intervention. <i>Frontiers in Physiology</i> , 2018, 9, 781.	2.8	8
69	Effects of a Weight and Pain Management Program in Patients With Rheumatoid Arthritis With Obesity. <i>Journal of Clinical Rheumatology</i> , 2022, 28, 7-13.	0.9	8
70	Pyruvate Dehydrogenase Phosphatase Regulatory Gene Expression Correlates with Exercise Training Insulin Sensitivity Changes. <i>Medicine and Science in Sports and Exercise</i> , 2016, 48, 2387-2397.	0.4	7
71	Thyroid Hormone Status Regulates Skeletal Muscle Response to Chronic Motor Nerve Stimulation. <i>Frontiers in Physiology</i> , 2019, 10, 1363.	2.8	7
72	Racial Differences in Performance-Based Function and Potential Explanatory Factors Among Individuals With Knee Osteoarthritis. <i>Arthritis Care and Research</i> , 2020, 72, 1196-1204.	3.4	7

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73	Metabolic and physiological effects of high intensity interval training in patients with knee osteoarthritis: A pilot and feasibility study. <i>Osteoarthritis and Cartilage Open</i> , 2020, 2, 100083.	2.0	7
74	Metabolic effects of high-intensity interval training and essential amino acids. <i>European Journal of Applied Physiology</i> , 2021, 121, 3297-3311.	2.5	7
75	Determinants of Dropout from and Variation in Adherence to an Exercise Intervention: The STRRIDE Randomized Trials. <i>Translational Journal of the American College of Sports Medicine</i> , 2022, 7, .	0.6	7
76	Systolic Blood Pressure and Socioeconomic Status in a large multi-study population. <i>SSM - Population Health</i> , 2019, 9, 100498.	2.7	6
77	Tissue engineered skeletal muscle model of rheumatoid arthritis using human primary skeletal muscle cells. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2022, 16, 128-139.	2.7	6
78	Differential Effects of Amount, Intensity, and Mode of Exercise Training on Insulin Sensitivity and Glucose Homeostasis: A Narrative Review. <i>Sports Medicine - Open</i> , 2022, 8, .	3.1	6
79	Lack of Association of a Functional Polymorphism in the Serotonin Receptor Gene With Body Mass Index and Depressive Symptoms in a Large Meta-Analysis of Population Based Studies. <i>Frontiers in Genetics</i> , 2018, 9, 423.	2.3	5
80	Rheumatoid arthritis complicates noninvasive whole blood gene expression testing for coronary artery disease. <i>American Heart Journal</i> , 2017, 192, 13-18.	2.7	4
81	Relations of established aging biomarkers (IL-6, D-dimer, s-VCAM) to glomerular filtration rate and mortality in community-dwelling elderly adults. <i>CKJ: Clinical Kidney Journal</i> , 2018, 11, 377-382.	2.9	4
82	Exercise protects against cardiac and skeletal muscle dysfunction in a mouse model of inflammatory arthritis. <i>Journal of Applied Physiology</i> , 2021, 130, 853-864.	2.5	4
83	Metabolomics analysis identifies a lipidomic profile in treatment-naïve juvenile dermatomyositis patients vs healthy control subjects. <i>Rheumatology</i> , 2022, 61, 1699-1708.	1.9	4
84	Branched-Chain Amino Acid Catabolism and Cardiopulmonary Function Following Acute Maximal Exercise Testing in Adolescents. <i>Frontiers in Cardiovascular Medicine</i> , 2021, 8, 721354.	2.4	4
85	Application of Heterogeneity of Treatment Effects Methods: Exploratory Analyses of a Trial of Exercise-Based Interventions for Knee Osteoarthritis. <i>Arthritis Care and Research</i> , 2022, 74, 1359-1368.	3.4	4
86	Cost and Quality of Life Outcomes of the STEpped Exercise Program for Patients With Knee OsteoArthritis Trial. <i>Value in Health</i> , 2022, 25, 614-621.	0.3	4
87	Lifestyle Interventions to Improve Immunesenescence. , 2017, , 161-176.		3
88	A Pilot Study of Home-Based Exercise and Personalized Nutrition Counseling Intervention in Endometrial Cancer Survivors. <i>Frontiers in Oncology</i> , 2021, 11, 669961.	2.8	3
89	Association between the FTO rs9939609 single nucleotide polymorphism and dietary adherence during a 2-year caloric restriction intervention: Exploratory analyses from CALERIE, phase 2. <i>Experimental Gerontology</i> , 2021, 155, 111555.	2.8	3
90	HIV-1 rev promotes the nuclear export of unspliced and singly spliced RNAs in a mammalian cell-free export system. <i>Journal of Biomedical Science</i> , 1999, 6, 194-205.	7.0	2

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91	The Relation of Accelerometer-Measured Physical Activity and Serum Uric Acid Using the National Health and Nutrition Survey (NHANES) 2003–2004. <i>Frontiers in Sports and Active Living</i> , 2021, 3, 775398.	1.8	2
92	Amount and intensity effects of exercise training alone versus a combined diet and exercise lifestyle intervention on health-related quality of life in the STRRIDE-PD randomized trial. <i>BMJ Open Diabetes Research and Care</i> , 2022, 10, e002584.	2.8	1