Marcas M Bamman

List of Publications by Year
in descending order

132	8,650	53939 47	53065 89
papers	citations	h-index	g-index

134	134	134	10123
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Wrist-based accelerometer cut-points for quantifying moderate-to-vigorous intensity physical activity in Parkinsonâ€™s disease. Gait and Posture, 2022, 91, 235-239.	0.6	4
2	A muscle cellâ€macrophage axis involving matrix metalloproteinase 14 facilitates extracellular matrix remodeling with mechanical loading. FASEB Journal, 2022, 36, e22155.	0.2	18
3	Skeletal muscle transcriptome response to a bout of endurance exercise in physically active and sedentary older adults. American Journal of Physiology - Endocrinology and Metabolism, 2022, 322, E260-E277.	1.8	13
4	High-velocity resistance training mitigates physiological and functional impairments in middle-aged and older adults with and without mobility-limitation. GeroScience, 2022, 44, 1175-1197.	2.1	5
5	State of Knowledge on Molecular Adaptations to Exercise in Humans: Historical Perspectives and Future Directions. , 2022, 12, 3193-3279.		18
6	Perioperative assessment of muscle inflammation susceptibility in patients with end-stage osteoarthritis. Journal of Applied Physiology, 2022, 132, 984-994.	1.2	8
7	Potential Benefits of Combined Statin and Metformin Therapy on Resistance Training Response in Older Individuals. Frontiers in Physiology, 2022, 13, 872745.	1.3	5
8	Skeletal muscle properties show collagen organization and immune cell content are associated with resistance exercise response heterogeneity in older persons. Journal of Applied Physiology, 2022, 132, 1432-1447.	1.2	12
9	SSâ€31 does not prevent or reduce muscle atrophy 7 days after a 65 kdyne contusion spinal cord injury in young male mice. Physiological Reports, 2022, 10, .	0.7	6
10	Effects of end-stage osteoarthritis on markers of skeletal muscle Long INterspersed Element-1 activity. BMC Research Notes, 2022, 15, .	0.6	1
11	Resveratrol and exercise combined to treat functional limitations in late life: A pilot randomized controlled trial. Experimental Gerontology, 2021, 143, 111111.	1.2	24
12	Potential role for age as a modulator of oral nitrate reductase activity. Nitric Oxide - Biology and Chemistry, 2021, 108, 1-7.	1.2	5
13	Influence of muscle fatigue on contractile twitch characteristics in persons with parkinsonâ€™s disease and older adults: A pilot study. Clinical Parkinsonism & Related Disorders, 2021, 5, 100103.	0.5	2
14	A 50 kdyne contusion spinal cord injury with or without the drug SSâ€31 was not associated with major changes in muscle mass or gene expression 14 d after injury in young male mice. Physiological Reports, 2021, 9, e14751.	0.7	2
15	Slow Wave Sleep and EEG Delta Spectral Power are Associated with Cognitive Function in Parkinsonâ€™s Disease. Journal of Parkinson's Disease, 2021, 11, 703-714.	1.5	20
16	Mechanisms of exercise as a preventative measure to muscle wasting. American Journal of Physiology - Cell Physiology, 2021, 321, C40-C57.	2.1	21
17	Fat mass loss correlates with faster disease progression in amyotrophic lateral sclerosis patients: Exploring the utility of dual-energy x-ray absorptiometry in a prospective study. PLoS ONE, 2021, 16, e0251087.	1.1	17
18	Muscle transcriptional networks linked to resistance exercise training hypertrophic response heterogeneity. Physiological Genomics, 2021, 53, 206-221.	1.0	11

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19	Accuracy and precision of wrist-worn actigraphy for measuring steps taken during over-ground and treadmill walking in adults with Parkinson's disease. Parkinsonism and Related Disorders, 2021, 88, 102-107.	1.1	10
20	Osteoarthritis Progression: Mitigation and Rehabilitation Strategies. Frontiers in Rehabilitation Sciences, 2021, 2, .	0.5	3
21	Effects of walking exercise training on learning and memory and hippocampal neuroimaging outcomes in MS: A targeted, pilot randomized controlled trial. Contemporary Clinical Trials, 2021, 110, 106563.	0.8	12
22	Associations of muscle lipid content with physical function and resistance training outcomes in older adults: altered responses with metformin. GeroScience, 2021, 43, 629-644.	2.1	14
23	High-velocity resistance training as a tool to improve functional performance and muscle power in older adults. Experimental Gerontology, 2021, 156, 111593.	1.2	7
24	Skeletal muscle transcriptional networks linked to type I myofiber grouping in Parkinsonâ€™s disease. Journal of Applied Physiology, 2020, 128, 229-240.	1.2	18
25	Exercise Effects on Mitochondrial Function and Lipid Metabolism during Energy Balance. Medicine and Science in Sports and Exercise, 2020, 52, 827-834.	0.2	10
26	Reply to: Exercise for â€œSleep Rehabilitationâ€•in Parkinson's Disease. Movement Disorders, 2020, 35, 1286-1286.	2.2	0
27	Oxygen cost of over-ground walking in persons with mild-to-moderate Parkinsonâ€™s disease. Gait and Posture, 2020, 82, 1-5.	0.6	6
28	The vitamin D activator CYP27B1 is upregulated in muscle fibers in denervating disease and can track progression in amyotrophic lateral sclerosis. Journal of Steroid Biochemistry and Molecular Biology, 2020, 200, 105650.	1.2	8
29	Molecular Transducers of Physical Activity Consortium (MoTrPAC): Mapping the Dynamic Responses to Exercise. Cell, 2020, 181, 1464-1474.	13.5	147
30	Rehabilitative Impact of Exercise Training on Human Skeletal Muscle Transcriptional Programs in Parkinsonâ€™s Disease. Frontiers in Physiology, 2020, 11, 653.	1.3	15
31	Randomized, Controlled Trial of Exercise on Objective and Subjective Sleep in Parkinson's Disease. Movement Disorders, 2020, 35, 947-958.	2.2	57
32	Physical activity trends and metabolic health outcomes in people living with HIV in the US, 2008â€“2015. Progress in Cardiovascular Diseases, 2020, 63, 170-177.	1.6	15
33	Stepâ€rate threshold for physical activity intensity in Parkinsonâ€™s disease. Acta Neurologica Scandinavica, 2020, 142, 145-150.	1.0	8
34	In vivo analysis of Î³H2AX+ cells in skeletal muscle from aged and obese humans. FASEB Journal, 2020, 34, 7018-7035.	0.2	41
35	Accelerometer output and its association with energy expenditure in persons with mild-to-moderate Parkinsonâ€™s disease. PLoS ONE, 2020, 15, e0242136.	1.1	10
36	Metformin alters skeletal muscle transcriptome adaptations to resistance training in older adults. Aging, 2020, 12, 19852-19866.	1.4	24

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37	Accuracy and Precision of Three Consumer-Grade Motion Sensors During Overground and Treadmill Walking in People With Parkinson Disease: Cross-Sectional Comparative Study. JMIR Rehabilitation and Assistive Technologies, 2020, 7, e14059.	1.1	22
38	Protocol for a systematically-developed, phase I/II, single-blind randomized controlled trial of treadmill walking exercise training effects on cognition and brain function in persons with multiple sclerosis. Contemporary Clinical Trials, 2019, 87, 105878.	0.8	10
39	Fiber typing human skeletal muscle with fluorescent immunohistochemistry. Journal of Applied Physiology, 2019, 127, 1632-1639.	1.2	50
40	Metformin blunts muscle hypertrophy in response to progressive resistance exercise training in older adults: A randomized, doubleâ€blind, placeboâ€controlled, multicenter trial: The MASTERS trial. Aging Cell, 2019, 18, e13039.	3.0	95
41	Relationship between VÌ‡o2peak, cycle economy, and mitochondrial respiration in untrained/trained. Journal of Applied Physiology, 2019, 127, 1562-1568.	1.2	6
42	Itâ€™s more than low BMI: prevalence of cachexia and associated mortality in COPD. Respiratory Research, 2019, 20, 100.	1.4	66
43	A pilot study of combined endurance and resistance exercise rehabilitation for verbal memory and functional connectivity improvement in epilepsy. Epilepsy and Behavior, 2019, 96, 44-56.	0.9	21
44	A guide for using NIH Image J for single slice cross-sectional area and composition analysis of the thigh from computed tomography. PLoS ONE, 2019, 14, e0211629.	1.1	28
45	The Importance of Resistance Exercise Training to Combat Neuromuscular Aging. Physiology, 2019, 34, 112-122.	1.6	73
46	Chronic Inflammation in Rheumatoid Arthritis and Mediators of Skeletal Muscle Pathology and Physical Impairment: A Review. Arthritis Care and Research, 2019, 71, 173-177.	1.5	21
47	Human neuromuscular aging: Sex differences revealed at the myocellular level. Experimental Gerontology, 2018, 106, 116-124.	1.2	64
48	Getting the Brain Into Shape: Exercise in Neurological Disorders. Clinical Therapeutics, 2018, 40, 6-7.	1.1	5
49	Molecular Regulation of Exercise-Induced Muscle Fiber Hypertrophy. Cold Spring Harbor Perspectives in Medicine, 2018, 8, a029751.	2.9	62
50	Quantification and characterization of grouped type I myofibers in human aging. Muscle and Nerve, 2018, 57, E52-E59.	1.0	50
51	Weight management and physical activity throughout the cancer care continuum. Ca-A Cancer Journal for Clinicians, 2018, 68, 64-89.	157.7	109
52	Medical Rehabilitation: Guidelines to Advance the Field With High-Impact Clinical Trials. Archives of Physical Medicine and Rehabilitation, 2018, 99, 2637-2648.	0.5	15
53	A high-protein diet or combination exercise training to improve metabolic health in individuals with long-standing spinal cord injury: a pilot randomized study. Physiological Reports, 2018, 6, e13813.	0.7	16
54	Paralytic and nonparalytic muscle adaptations to exercise training versus high-protein diet in individuals with long-standing spinal cord injury. Journal of Applied Physiology, 2018, 125, 64-72.	1.2	10

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55	Muscle Fn14 gene expression is associated with fatâ€free mass retention during energy deficit at high altitude. Physiological Reports, 2018, 6, e13801.	0.7	7
56	Effects of aging and Parkinsonâ€™s disease on motor unit remodeling: influence of resistance exercise training. Journal of Applied Physiology, 2018, 124, 888-898.	1.2	30
57	Composition and richness of the serum microbiome differ by age and link to systemic inflammation. GeroScience, 2018, 40, 257-268.	2.1	63
58	Immunohistochemical Identification of Human Skeletal Muscle Macrophages. Bio-protocol, 2018, 8, .	0.2	53
59	Metformin to Augment Strength Training Effective Response in Seniors (MASTERS): study protocol for a randomized controlled trial. Trials, 2017, 18, 192.	0.7	40
60	Motion sensors in multiple sclerosis: Narrative review and update of applications. Expert Review of Medical Devices, 2017, 14, 891-900.	1.4	39
61	Randomized, four-arm, dose-response clinical trial to optimize resistance exercise training for older adults with age-related muscle atrophy. Experimental Gerontology, 2017, 99, 98-109.	1.2	62
62	Potential Causes of Elevated REE after High-Intensity Exercise. Medicine and Science in Sports and Exercise, 2017, 49, 2414-2421.	0.2	26
63	High-Intensity Exercise Acutely Increases Substantia Nigra and Prefrontal Brain Activity in Parkinsonâ€™s Disease. Medical Science Monitor, 2017, 23, 6064-6071.	0.5	41
64	Ribosome biogenesis may augment resistance training-induced myofiber hypertrophy and is required for myotube growth in vitro. American Journal of Physiology - Endocrinology and Metabolism, 2016, 310, E652-E661.	1.8	122
65	Heightened TWEAK-NF-Î¹B signaling and inflammation-associated fibrosis in paralyzed muscles of men with chronic spinal cord injury. American Journal of Physiology - Endocrinology and Metabolism, 2016, 310, E754-E761.	1.8	30
66	OPNâ€a induces muscle inflammation by increasing recruitment and activation of proâ€inflammatory macrophages. Experimental Physiology, 2016, 101, 1285-1300.	0.9	19
67	Exercise Promotes Healthy Aging of Skeletal Muscle. Cell Metabolism, 2016, 23, 1034-1047.	7.2	335
68	Exercise Medicine for Osteoarthritis: Research Strategies to Maximize Effectiveness. Arthritis Care and Research, 2016, 68, 288-291.	1.5	9
69	Muscle Fiber Type, Achilles Tendon Length, Potentiation, and Running Economy. Journal of Strength and Conditioning Research, 2015, 29, 1302-1309.	1.0	27
70	Transforming Growth Factor Beta (TGF-Î²) Is a Muscle Biomarker of Disease Progression in ALS and Correlates with Smad Expression. PLoS ONE, 2015, 10, e0138425.	1.1	44
71	Understanding the Cellular and Molecular Mechanisms of Physical Activity-Induced Health Benefits. Cell Metabolism, 2015, 22, 4-11.	7.2	345
72	Serum from human burn victims impairs myogenesis and protein synthesis in primary myoblasts. Frontiers in Physiology, 2015, 6, 184.	1.3	29

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73	Muscle inflammation susceptibility: a prognostic index of recovery potential after hip arthroplasty?. American Journal of Physiology - Endocrinology and Metabolism, 2015, 308, E670-E679.	1.8	26
74	Histone Methylation Dynamics and Gene Regulation Occur through the Sensing of One-Carbon Metabolism. Cell Metabolism, 2015, 22, 861-873.	7.2	481
75	Circulating levels of fibroblast growth factor-21 increase with age independently of body composition indices among healthy individuals. Journal of Clinical and Translational Endocrinology, 2015, 2, 77-82.	1.0	68
76	The effects of age and resistance loading on skeletal muscle ribosome biogenesis. Journal of Applied Physiology, 2015, 119, 851-857.	1.2	70
77	The Clinical Translation Gap in Child Health Exercise Research: A Call for Disruptive Innovation. Clinical and Translational Science, 2015, 8, 67-76.	1.5	16
78	Aging and energeticsâ€™ â€˜Top 40â€™ future research opportunities 2010-2013. F1000Research, 2014, 3, 219.	0.8	17
79	Novel, high-intensity exercise prescription improves muscle mass, mitochondrial function, and physical capacity in individuals with Parkinson's disease. Journal of Applied Physiology, 2014, 116, 582-592.	1.2	96
80	Mechanosensitivity may be enhanced in skeletal muscles of spinal cordâ€“injured versus ableâ€bodied men. Muscle and Nerve, 2014, 50, 599-601.	1.0	15
81	Exercise Biology and Medicine: Innovative Research to Improve Global Health. Mayo Clinic Proceedings, 2014, 89, 148-153.	1.4	31
82	Skeletal muscle signaling associated with impaired glucose tolerance in spinal cord-injured men and the effects of contractile activity. Journal of Applied Physiology, 2013, 115, 756-764.	1.2	33
83	Cluster analysis reveals differential transcript profiles associated with resistance training-induced human skeletal muscle hypertrophy. Physiological Genomics, 2013, 45, 499-507.	1.0	91
84	Heightened muscle inflammation susceptibility may impair regenerative capacity in aging humans. Journal of Applied Physiology, 2013, 115, 937-948.	1.2	107
85	Inflammatory and Protein Metabolism Signaling Responses in Human Skeletal Muscle After Burn Injury. Journal of Burn Care and Research, 2012, 33, 291-297.	0.2	42
86	Characterization and Regulation of Mechanical Loadingâ€induced Compensatory Muscle Hypertrophy. , 2012, 2, 2829-2870.		77
87	Differential myogenic and cell cycle gene translation following unaccustomed resistance loading may contribute to disparate myofiber hypertrophy potential during resistance training. FASEB Journal, 2012, 26, 1086.16.	0.2	0
88	Ageâ€related changes in the skeletal muscle DNA methylome and transcriptome. FASEB Journal, 2012, 26, 716.1.	0.2	0
89	Eukaryotic initiation factor 2B epsilon induces capâ€dependent translation and skeletal muscle hypertrophy. Journal of Physiology, 2011, 589, 3023-3037.	1.3	59
90	Age, muscle fatigue, and walking endurance in pre-menopausal women. European Journal of Applied Physiology, 2011, 111, 715-723.	1.2	4

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91	Exercise Dosing to Retain Resistance Training Adaptations in Young and Older Adults. Medicine and Science in Sports and Exercise, 2011, 43, 1177-1187.	0.2	141
92	Does your (genetic) alphabet soup spell â€œrunnerâ€?. Journal of Applied Physiology, 2010, 108, 1452-1453.	1.2	1
93	Differential genomic responses in old vs. young humans despite similar levels of modest muscle damage after resistance loading. Physiological Genomics, 2010, 40, 141-149.	1.0	89
94	Protein translation and degradation signaling in skeletal muscle following total hip arthroplasty with or without an essential amino acid supplement. FASEB Journal, 2010, 24, lb665.	0.2	0
95	Translational signaling responses preceding resistance training-mediated myofiber hypertrophy in young and old humans. Journal of Applied Physiology, 2009, 107, 1655-1662.	1.2	185
96	Does habitual dietary intake influence myofiber hypertrophy in response to resistance training? AÂcluster analysis. Applied Physiology, Nutrition and Metabolism, 2009, 34, 632-639.	0.9	27
97	Increased strength and decreased flexibility are related to reduced oxygen cost of walking. European Journal of Applied Physiology, 2008, 104, 895-901.	1.2	26
98	Potent myofiber hypertrophy during resistance training in humans is associated with satellite cell-mediated myonuclear addition: a cluster analysis. Journal of Applied Physiology, 2008, 104, 1736-1742.	1.2	359
99	Modulation of the dystrophin-associated protein complex in response to resistance training in young and older men. Journal of Applied Physiology, 2008, 104, 1476-1484.	1.2	38
100	The exercise dose response: key lessons from the past. American Journal of Physiology - Endocrinology and Metabolism, 2008, 294, E230-E231.	1.8	5
101	Cluster analysis tests the importance of myogenic gene expression during myofiber hypertrophy in humans. Journal of Applied Physiology, 2007, 102, 2232-2239.	1.2	173
102	Load-mediated downregulation of myostatin mRNA is not sufficient to promote myofiber hypertrophy in humans: a cluster analysis. Journal of Applied Physiology, 2007, 103, 1488-1495.	1.2	78
103	Contributions of force and velocity to improved power with progressive resistance training in young and older adults. European Journal of Applied Physiology, 2007, 99, 343-351.	1.2	52
104	Reply to Dr. Heinemeier. Journal of Applied Physiology, 2007, 103, 1915-1915.	1.2	0
105	Efficacy of 3 days/wk resistance training on myofiber hypertrophy and myogenic mechanisms in young vs. older adults. Journal of Applied Physiology, 2006, 101, 531-544.	1.2	411
106	Efficacy of myonuclear addition may explain differential myofiber growth among resistance-trained young and older men and women. American Journal of Physiology - Endocrinology and Metabolism, 2006, 291, E937-E946.	1.8	300
107	The effect of protein and amino acid intake on resistance training outcomes in younger and older adults. FASEB Journal, 2006, 20, A159.	0.2	0
108	Impact of resistance loading on myostatin expression and cell cycle regulation in young and older men and women. American Journal of Physiology - Endocrinology and Metabolism, 2005, 288, E1110-E1119.	1.8	211

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109	Inverse relationship between exercise economy and oxidative capacity in muscle. European Journal of Applied Physiology, 2005, 94, 558-568.	1.2	43
110	Resting and load-induced levels of myogenic gene transcripts differ between older adults with demonstrable sarcopenia and young men and women. Journal of Applied Physiology, 2005, 99, 2149-2158.	1.2	109
111	Age differences in knee extension power, contractile velocity, and fatigability. Journal of Applied Physiology, 2005, 98, 211-220.	1.2	207
112	Myogenic protein expression before and after resistance loading in 26- and 64-yr-old men and women. Journal of Applied Physiology, 2004, 97, 1329-1337.	1.2	68
113	Effects of Resistance Training on Older Adults. Sports Medicine, 2004, 34, 329-348.	3.1	519
114	Gender Differences in Resistance-Training-Induced Myofiber Hypertrophy Among Older Adults. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2003, 58, B108-B116.	1.7	142
115	Resistance training and intra-abdominal adipose tissue in older men and women. Medicine and Science in Sports and Exercise, 2002, 34, 1023-1028.	0.2	96
116	Age is independently related to muscle metabolic capacity in premenopausal women. Journal of Applied Physiology, 2002, 93, 70-76.	1.2	27
117	Mechanical load increases muscle IGF-I and androgen receptor mRNA concentrations in humans. American Journal of Physiology - Endocrinology and Metabolism, 2001, 280, E383-E390.	1.8	259
118	Muscle metabolic economy is inversely related to exercise intensity and type II myofiber distribution. Muscle and Nerve, 2001, 24, 654-661.	1.0	59
119	Relation between in vivo and in vitro measurements of skeletal muscle oxidative metabolism. Muscle and Nerve, 2001, 24, 1665-1676.	1.0	46
120	Resistance Exercise Countermeasures for Space Flight. Journal of Strength and Conditioning Research, 2000, 14, 45-49.	1.0	3
121	Evaluation of the strength-size relationship in vivo using various muscle size indices. Medicine and Science in Sports and Exercise, 2000, 32, 1307-1313.	0.2	178
122	Resistance training increases total energy expenditure and free-living physical activity in older adults. Journal of Applied Physiology, 2000, 89, 977-984.	1.2	226
123	In situ localization of cholesterol in skeletal muscle by use of a monoclonal antibody. Journal of Applied Physiology, 2000, 89, 731-741.	1.2	7
124	Enhanced protein electrophoresis technique for separating human skeletal muscle myosin heavy chain isoforms. Electrophoresis, 1999, 20, 466-468.	1.3	55
125	Impact of resistance exercise during bed rest on skeletal muscle sarcopenia and myosin isoform distribution. Journal of Applied Physiology, 1998, 84, 157-163.	1.2	217
126	Bed rest decreases mechanically induced myofiber wounding and consequent wound-mediated FGF release. Journal of Applied Physiology, 1998, 85, 593-600.	1.2	20

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127	Resistance exercise maintains skeletal muscle protein synthesis during bed rest. Journal of Applied Physiology, 1997, 82, 807-810.	1.2	192
128	Resistance exercise training and the orthostatic response. European Journal of Applied Physiology, 1997, 76, 32-40.	1.2	43
129	Resistance exercise prevents plantar flexor deconditioning during bed rest. Medicine and Science in Sports and Exercise, 1997, 29, 1462-1468.	0.2	64
130	Evaluation of Surface Electromyography During Maximal Voluntary Contraction. Journal of Strength and Conditioning Research, 1997, 11, 68.	1.0	17
131	Frequency and volume of resistance training: Effect on cervical extension strength. Archives of Physical Medicine and Rehabilitation, 1993, 74, 1080-1086.	0.5	70
132	Considerations for Sex-Cognizant Research in Exercise Biology and Medicine. Frontiers in Sports and Active Living, 0, 4, .	0.9	12