

# Amelia Guadalupe-Grau

## List of Publications by Year in descending order

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69  
papers

2,054  
citations

236925

25  
h-index

243625

44  
g-index

71  
all docs

71  
docs citations

71  
times ranked

3154  
citing authors

#	ARTICLE	IF	CITATIONS
1	Exercise and Bone Mass in Adults. <i>Sports Medicine</i> , 2009, 39, 439-468.	6.5	290
2	Bed rest reduces metabolic protein content and abolishes exercise-induced mRNA responses in human skeletal muscle. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2011, 301, E649-E658.	3.5	109
3	GAPDH and $\beta$ -actin protein decreases with aging, making Stain-Free technology a superior loading control in Western blotting of human skeletal muscle. <i>Journal of Applied Physiology</i> , 2015, 118, 386-394.	2.5	104
4	Normal mitochondrial function and increased fat oxidation capacity in leg and arm muscles in obese humans. <i>International Journal of Obesity</i> , 2011, 35, 99-108.	3.4	81
5	Frailty is associated with objectively assessed sedentary behaviour patterns in older adults: Evidence from the Toledo Study for Healthy Aging (TSHA). <i>PLoS ONE</i> , 2017, 12, e0183911.	2.5	77
6	The upper extremity of the professional tennis player: muscle volumes, fiber type distribution and muscle strength. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2010, 20, 524-534.	2.9	75
7	SIRT1, AMP-activated protein kinase phosphorylation and downstream kinases in response to a single bout of sprint exercise: influence of glucose ingestion. <i>European Journal of Applied Physiology</i> , 2010, 109, 731-743.	2.5	72
8	Limitations to oxygen transport and utilization during sprint exercise in humans: evidence for a functional reserve in muscle $O_2$ diffusing capacity. <i>Journal of Physiology</i> , 2015, 593, 4649-4664.	2.9	70
9	Increased oxidative stress and anaerobic energy release, but blunted Thr <sup>172</sup> -AMPK $\pm$ phosphorylation, in response to sprint exercise in severe acute hypoxia in humans. <i>Journal of Applied Physiology</i> , 2012, 113, 917-928.	2.5	66
10	Role of objectively measured sedentary behaviour in physical performance, frailty and mortality among older adults: A short systematic review. <i>European Journal of Sport Science</i> , 2017, 17, 940-953.	2.7	63
11	Reallocating Accelerometer-Assessed Sedentary Time to Light or Moderate- to Vigorous-Intensity Physical Activity Reduces Frailty Levels in Older Adults: An Isotemporal Substitution Approach in the TSHA Study. <i>Journal of the American Medical Directors Association</i> , 2018, 19, 185.e1-185.e6.	2.5	63
12	Time-course effects of aerobic interval training and detraining in patients with metabolic syndrome. <i>Nutrition, Metabolism and Cardiovascular Diseases</i> , 2014, 24, 792-798.	2.6	62
13	Association of regional muscle strength with mortality and hospitalisation in older people. <i>Age and Ageing</i> , 2015, 44, 790-795.	1.6	62
14	The Force-Velocity Relationship in Older People: Reliability and Validity of a Systematic Procedure. <i>International Journal of Sports Medicine</i> , 2017, 38, 1097-1104.	1.7	56
15	Critical role for free radicals on sprint exercise-induced CaMKII and AMPK $\pm$ phosphorylation in human skeletal muscle. <i>Journal of Applied Physiology</i> , 2013, 114, 566-577.	2.5	48
16	Leptin receptor 170 kDa (OB-R170) protein expression is reduced in obese human skeletal muscle: a potential mechanism of leptin resistance. <i>Experimental Physiology</i> , 2010, 95, 160-171.	2.0	47
17	Gender Dimorphism in Skeletal Muscle Leptin Receptors, Serum Leptin and Insulin Sensitivity. <i>PLoS ONE</i> , 2008, 3, e3466.	2.5	46
18	Strength training combined with plyometric jumps in adults: sex differences in fat-bone axis adaptations. <i>Journal of Applied Physiology</i> , 2009, 106, 1100-1111.	2.5	45

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19	Skeletal Muscle Power Measurement in Older People: A Systematic Review of Testing Protocols and Adverse Events. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2018, 73, 914-924.	3.6	45
20	Cognitive Performance across 3 Frailty Phenotypes: Toledo Study for Healthy Aging. <i>Journal of the American Medical Directors Association</i> , 2017, 18, 785-790.	2.5	40
21	Repeated muscle biopsies through a single skin incision do not elicit muscle signaling, but IL-6 mRNA and STAT3 phosphorylation increase in injured muscle. <i>Journal of Applied Physiology</i> , 2011, 110, 1708-1715.	2.5	39
22	Erythropoietin Treatment Enhances Muscle Mitochondrial Capacity in Humans. <i>Frontiers in Physiology</i> , 2012, 3, 50.	2.8	39
23	Effects of concurrent exercise training on muscle dysfunction and systemic oxidative stress in older people with COPD. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2019, 29, 1591-1603.	2.9	32
24	Is sprint exercise a leptin signaling mimetic in human skeletal muscle?. <i>Journal of Applied Physiology</i> , 2011, 111, 715-725.	2.5	29
25	Skeletal muscle signaling response to sprint exercise in men and women. <i>European Journal of Applied Physiology</i> , 2012, 112, 1917-1927.	2.5	28
26	Muscle hypertrophy and increased expression of leptin receptors in the musculus triceps brachii of the dominant arm in professional tennis players. <i>European Journal of Applied Physiology</i> , 2010, 108, 749-758.	2.5	26
27	Leptin signaling in skeletal muscle after bed rest in healthy humans. <i>European Journal of Applied Physiology</i> , 2014, 114, 345-357.	2.5	22
28	Short- and Long-Term Effects of Concurrent Strength and HIIT Training in Octogenarians with COPD. <i>Journal of Aging and Physical Activity</i> , 2017, 25, 105-115.	1.0	21
29	Aerobic Exercise Training Increases Muscle Water Content in Obese Middle-Age Men. <i>Medicine and Science in Sports and Exercise</i> , 2016, 48, 822-828.	0.4	18
30	Bone Mass and the CAG and GGN Androgen Receptor Polymorphisms in Young Men. <i>PLoS ONE</i> , 2010, 5, e11529.	2.5	17
31	Effects of 6-month aerobic interval training on skeletal muscle metabolism in middle-aged metabolic syndrome patients. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2018, 28, 585-595.	2.9	17
32	Androgen receptor gene polymorphisms lean mass and performance in young men. <i>British Journal of Sports Medicine</i> , 2011, 45, 95-100.	6.7	16
33	Greater basal skeletal muscle AMPK± phosphorylation in men than in women: Associations with anaerobic performance. <i>European Journal of Sport Science</i> , 2016, 16, 455-464.	2.7	16
34	Androgen receptor gene polymorphism influence fat accumulation: A longitudinal study from adolescence to adult age. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2016, 26, 1313-1320.	2.9	14
35	Skeletal muscle signaling, metabolism, and performance during sprint exercise in severe acute hypoxia after the ingestion of antioxidants. <i>Journal of Applied Physiology</i> , 2017, 123, 1235-1245.	2.5	14
36	Adiposity and Age Explain Most of the Association between Physical Activity and Fitness in Physically Active Men. <i>PLoS ONE</i> , 2010, 5, e13435.	2.5	14

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37	Osteocalcin as a negative regulator of serum leptin concentration in humans: insight from triathlon competitions. <i>European Journal of Applied Physiology</i> , 2010, 110, 635-643.	2.5	13
38	Influence of age on leptin induced skeletal muscle signalling. <i>Acta Physiologica</i> , 2014, 211, 214-228.	3.8	13
39	Endocrinology of Aging From a Muscle Function Point of View: Results From the Toledo Study for Healthy Aging. <i>Journal of the American Medical Directors Association</i> , 2017, 18, 234-239.	2.5	13
40	Home-based training strategy to maintain muscle function in older adults with diabetes during COVID-19 confinement. <i>Journal of Diabetes</i> , 2020, 12, 701-702.	1.8	12
41	Nonlinear relationship between waist to hip ratio, weight and strength in elders: is gender the key?. <i>Biogerontology</i> , 2015, 16, 685-692.	3.9	11
42	Effects of an 8-weeks erythropoietin treatment on mitochondrial and whole body fat oxidation capacity during exercise in healthy males. <i>Journal of Sports Sciences</i> , 2015, 33, 570-578.	2.0	11
43	Impact of the Home Confinement Related to COVID-19 on the Device-Assessed Physical Activity and Sedentary Patterns of Spanish Older Adults. <i>BioMed Research International</i> , 2021, 2021, 1-8.	1.9	11
44	Effects of myofascial release or self-myofascial release and control position exercises on lower back pain in idiopathic scoliosis: A systematic review. <i>Journal of Bodywork and Movement Therapies</i> , 2021, 27, 16-25.	1.2	10
45	Androgen Receptor Gene Polymorphisms and the Fat-Bone Axis in Young Men and Women. <i>Journal of Andrology</i> , 2012, 33, 644-650.	2.0	9
46	Neuromuscular and Cardiovascular Adaptations in Response to High-Intensity Interval Power Training. <i>Journal of Strength and Conditioning Research</i> , 2018, 32, 130-138.	2.1	9
47	Training, Leptin Receptors and SOCS3 in Human Muscle. <i>International Journal of Sports Medicine</i> , 2011, 32, 319-326.	1.7	8
48	Health-Related Factors in Rural and Urban Mexican Adolescents from the State of Jalisco: The HELENA-MEX Study. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 8959.	2.6	8
49	Repeated Prolonged Exercise Decreases Maximal Fat Oxidation in Older Men. <i>Medicine and Science in Sports and Exercise</i> , 2017, 49, 308-316.	0.4	7
50	Analysis of Effectiveness of a Supplement Combining <i>Harpagophytum procumbens</i> , <i>Zingiber officinale</i> and <i>Bixa orellana</i> in Healthy Recreational Runners with Self-Reported Knee Pain: A Pilot, Randomized, Triple-Blind, Placebo-Controlled Trial. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 5538.	2.6	7
51	Effects of Power Training on Physical Activity, Sitting Time, Disability, and Quality of Life in Older Patients With Type 2 Diabetes During the COVID-19 Confinement. <i>Journal of Physical Activity and Health</i> , 2021, 18, 660-668.	2.0	7
52	Isoinertial and Isokinetic Sprints: Muscle Signalling. <i>International Journal of Sports Medicine</i> , 2013, 34, 285-292.	1.7	5
53	ANDROGEN RECEPTOR CAG AND GGN REPEAT POLYMORPHISMS AND BONE MASS IN BOYS AND GIRLS. <i>Nutricion Hospitalaria</i> , 2015, 32, 2633-9.	0.3	5
54	Comparative Analysis of the Effects of Daily Eating Habits and Physical Activity on Anthropometric Parameters in Elementary School Children in Latvia: Pach Study. <i>Nutrients</i> , 2020, 12, 3818.	4.1	4

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55	Multicomponent Home-Based Training Program for Chronic Kidney Disease Patients during Movement Restriction. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 3416.	2.6	3
56	Is Oxidative Stress Involved In Fatigue During High Intensity Sprint Exercise In Severe Acute Hypoxia?. <i>Medicine and Science in Sports and Exercise</i> , 2010, 42, 468.	0.4	1
57	Reply to Martyn-St. James and Carroll. <i>Journal of Applied Physiology</i> , 2009, 107, 637-637.	2.5	0
58	Influence of Hypoxia and Oxidative Stress on Plasma Leptin Responses to Sprint Exercise in Humans. <i>Medicine and Science in Sports and Exercise</i> , 2010, 42, 631.	0.4	0
59	AMPK Phosphorylation, Sirt1 And PGC-1 $\alpha$ Protein Expression After Sprint Exercise In Fed And Fasted Conditions. <i>Medicine and Science in Sports and Exercise</i> , 2010, 42, 147.	0.4	0
60	Men Have Greater Basal Skeletal Muscle Ampk Phosphorylation Than Women. <i>Medicine and Science in Sports and Exercise</i> , 2011, 43, 300.	0.4	0
61	Androgen receptor CAG and GGN repeat polymorphisms influence performance in boys and girls. <i>Journal of Sports Medicine and Physical Fitness</i> , 2017, 57, 18-25.	0.7	0
62	Low Osteogenic Response to Strength Training Combined with Plyometric Exercises in Young Women. <i>Medicine and Science in Sports and Exercise</i> , 2006, 38, S284.	0.4	0
63	959. <i>Medicine and Science in Sports and Exercise</i> , 2006, 38, S89.	0.4	0
64	Effects of combined strength and endurance training on the expression of leptin receptors in human skeletal muscle. <i>FASEB Journal</i> , 2008, 22, 962.7.	0.5	0
65	Gender dymorphism in muscle leptin receptors. <i>FASEB Journal</i> , 2008, 22, 962.3.	0.5	0
66	Ampk $\uparrow$ Phosphorylation In The M. Vastus Lateralis Following Sprint Exercise In Humans. <i>Medicine and Science in Sports and Exercise</i> , 2008, 40, S194.	0.4	0
67	Androgen Receptor Gene cag and ggn Length Polymorphisms Are Associated With Lean Mass in Women. <i>Medicine and Science in Sports and Exercise</i> , 2008, 40, S183.	0.4	0
68	Body Dissatisfaction and Its Association with Health-Related Factors in Rural and Urban Mexican Adolescents from the State of Jalisco. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 12215.	2.6	0
69	Validity and Reliability of A New Low-Cost Linear Position Transducer to Measure Mean Propulsive Velocity: The ADR device. <i>Proceedings of the Institution of Mechanical Engineers, Part P: Journal of Sports Engineering and Technology</i> , 0, , 175433712211043.	0.7	0