Martine A Thomis

List of Publications by Year
in descending order

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121	3,796	94433	138484
papers	citations	37 h-index	58 g-index

126	126	126	5087
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	ACTN3 (R577X) genotype is associated with fiber type distribution. Physiological Genomics, 2007, 32, 58-63.	2.3	257
2	Prediction of adult height using maturity-based cumulative height velocity curves. Journal of Pediatrics, 2005, 147, 508-514.	1.8	138
3	Inheritance of physical fitness in 10-yr-old twins and their parents. Medicine and Science in Sports and Exercise, 1996, 28, 1479-1491.	0.4	135
4	Dietary nitrate improves muscle but not cerebral oxygenation status during exercise in hypoxia. Journal of Applied Physiology, 2012, 113, 736-745.	2.5	125
5	Genetic factors in physical activity levels. American Journal of Preventive Medicine, 2002, 23, 87-91.	3.0	120
6	Muscular Strength, Aerobic Fitness, and Metabolic Syndrome Risk in Flemish Adults. Medicine and Science in Sports and Exercise, 2007, 39, 233-240.	0.4	118
7	Reliability and validity of the ultrasound technique to measure the rectus femoris muscle diameter in older CAD-patients. BMC Medical Imaging, 2012, 12, 7.	2.7	108
8	Reliability and Validity of the Flemish Physical Activity Computerized Questionnaire in Adults. Research Quarterly for Exercise and Sport, 2007, 78, 293-306.	1.4	98
9	Specific associations between types of physical activity and components of mental health. Journal of Science and Medicine in Sport, 2009, 12, 468-474.	1.3	88
10	Heritability of Conventional and Ambulatory Blood Pressures. Hypertension, 1995, 26, 919-924.	2.7	84
11	Tracking of Physical Fitness and Physical Activity from Youth to Adulthood in Females. Medicine and Science in Sports and Exercise, 2006, 38, 1114-1120.	0.4	82
12	Association between leisure time physical activity and stress, social support and coping: A cluster-analytical approach. Psychology of Sport and Exercise, 2007, 8, 425-440.	2.1	82
13	Muscular Strength Development in Children and Adolescents. Pediatric Exercise Science, 2000, 12, 174-197.	1.0	81
14	Sports Participation Among Females From Adolescence To Adulthood. International Review for the Sociology of Sport, 2006, 41, 413-430.	2.4	81
15	Socio-economic status, growth, physical activity and fitness: The Madeira Growth Study. Annals of Human Biology, 2007, 34, 107-122.	1.0	81
16	Biological/Genetic Regulation of Physical Activity Level. Medicine and Science in Sports and Exercise, 2018, 50, 863-873.	0.4	80
17	Protective role of Î±-actinin-3 in the response to an acute eccentric exercise bout. Journal of Applied Physiology, 2010, 109, 564-573.	2.5	75
18	Growth in Peak Aerobic Power during Adolescence. Medicine and Science in Sports and Exercise, 2004, 36, 1616-1624.	0.4	72

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19	Heritability of body mass index in pre-adolescence, young adulthood and late adulthood. European Journal of Epidemiology, 2012, 27, 247-253.	5.7	72
20	Determinants and Upper-Limit Heritabilities of Skeletal Muscle Mass and Strength. Applied Physiology, Nutrition, and Metabolism, 2004, 29, 186-200.	1.7	66
21	Multivariate genetic analysis of maximal isometric muscle force at different elbow angles. Journal of Applied Physiology, 1997, 82, 959-967.	2.5	61
22	Genetics of Regular Exercise and Sedentary Behaviors. Twin Research and Human Genetics, 2014, 17, 262-271.	0.6	61
23	Skeletal maturation, fundamental motor skills and motor coordination in children 7â€“10Âyears. Journal of Sports Sciences, 2015, 33, 924-934.	2.0	59
24	Sport participation and stress among women and men. Psychology of Sport and Exercise, 2012, 13, 466-483.	2.1	55
25	Daily physical activity and physical fitness from adolescence to adulthood: A longitudinal study. American Journal of Human Biology, 2000, 12, 487-497.	1.6	53
26	Genetic and environmental factors in familial clustering in physical activity. European Journal of Epidemiology, 2008, 23, 205-211.	5.7	53
27	Associations between sport participation, demographic and socio-cultural factors in Portuguese children and adolescents. European Journal of Public Health, 2008, 18, 25-30.	0.3	51
28	Acute environmental hypoxia induces LC3 lipidation in a genotypeâ€dependent manner. FASEB Journal, 2014, 28, 1022-1034.	0.5	48
29	Muscle mass and muscle function over the adult life span: A cross-sectional study in Flemish adults. Archives of Gerontology and Geriatrics, 2015, 61, 161-167.	3.0	48
30	The effect of resistance training, detraining and retraining on muscle strength and power, myofibre size, satellite cells and myonuclei in older men. Experimental Gerontology, 2020, 133, 110860.	2.8	47
31	Age and Sex Differences in Physical Activity of Portuguese Adolescents. Medicine and Science in Sports and Exercise, 2008, 40, 65-70.	0.4	44
32	Tracking of fatness during childhood, adolescence and young adulthood: a 7-year follow-up study in Madeira Island, Portugal. Annals of Human Biology, 2012, 39, 59-67.	1.0	44
33	Adolescent growth spurts in female gymnasts. Journal of Pediatrics, 2005, 146, 239-244.	1.8	42
34	Intraindividual allometric development of aerobic power in 8- to 16-year-old boys. Medicine and Science in Sports and Exercise, 2002, 34, 503-510.	0.4	41
35	Comprehensive fine mapping of chr12q12-14 and follow-up replication identify activin receptor 1B (ACVR1B) as a muscle strength gene. European Journal of Human Genetics, 2011, 19, 208-215.	2.8	40
36	The influence of sex, age and heritability on human skeletal muscle carnosine content. Amino Acids, 2012, 43, 13-20.	2.7	40

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37	A genetic predisposition score for muscular endophenotypes predicts the increase in aerobic power after training: the CAREGENE study. BMC Genetics, 2011, 12, 84.	2.7	38
38	Role of Alpha-actinin-3 in Contractile Properties of Human Single Muscle Fibers: A Case Series Study in Paraplegics. PLoS ONE, 2012, 7, e49281.	2.5	36
39	Gross motor coordination and weight status of <scp>P</scp>ortuguese children aged 6â€“14 years. American Journal of Human Biology, 2015, 27, 681-689.	1.6	35
40	Age-related decline in muscle mass and muscle function in Flemish Caucasians: a 10-year follow-up. Age, 2016, 38, 36.	3.0	34
41	Evidence for ACTN3 as a Speed Gene in Isolated Human Muscle Fibers. PLoS ONE, 2016, 11, e0150594.	2.5	30
42	Longitudinal impact of aging on muscle quality in middle-aged men. Age, 2014, 36, 9689.	3.0	29
43	History-dependent force, angular velocity and muscular endurance in ACTN3 genotypes. European Journal of Applied Physiology, 2015, 115, 1637-1643.	2.5	28
44	Skeletal Maturation, Body Size, and Motor Coordination in Youth 11â€“14 Years. Medicine and Science in Sports and Exercise, 2016, 48, 1129-1135.	0.4	27
45	Gene Powered? Where to Go from Heritability (h2) in Muscle Strength and Power?. Exercise and Sport Sciences Reviews, 2004, 32, 148-154.	3.0	26
46	Genetic Predisposition Scores Associate with Muscular Strength, Size, and Trainability. Medicine and Science in Sports and Exercise, 2013, 45, 1451-1459.	0.4	24
47	Prevalence and association of single nucleotide polymorphisms with sarcopenia in older women depends on definition. Scientific Reports, 2020, 10, 2913.	3.3	24
48	Univariate and multivariate genetic analysis of subcutaneous fatness and fat distribution in early adolescence. Behavior Genetics, 1998, 28, 279-288.	2.1	23
49	Genetics of Strength and Power Characteristics in Children and Adolescents. Pediatric Exercise Science, 2003, 15, 128-138.	1.0	23
50	Genetic Determinants of Prepubertal and Pubertal Growth and Development. Food and Nutrition Bulletin, 2006, 27, S257-S278.	1.4	22
51	A Genetic Epidemiological Mega Analysis of Smoking Initiation in Adolescents. Nicotine and Tobacco Research, 2017, 19, ntw294.	2.6	21
52	Differentially methylated gene patterns between ageâ€matched sarcopenic and nonâ€sarcopenic women. Journal of Cachexia, Sarcopenia and Muscle, 2019, 10, 1295-1306.	7.3	19
53	Static one-leg standing balance test as a screening tool for low muscle mass in healthy elderly women. Aging Clinical and Experimental Research, 2021, 33, 1831-1839.	2.9	19
54	Methodological issues associated with longitudinal research: Findings from the Leuven Longitudinal Study on Lifestyle, Fitness and Health (1969Ââ€“Â2004). Journal of Sports Sciences, 2007, 25, 1011-1024.	2.0	18

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55	The Association of Multiple Gene Variants with Ageing Skeletal Muscle Phenotypes in Elderly Women. Genes, 2020, 11, 1459.	2.4	17
56	Genetic predisposition score predicts the increases of knee strength and muscle mass after one-year exercise in healthy elderly. Experimental Gerontology, 2018, 111, 17-26.	2.8	16
57	Genetic and environmental determination of tracking in static strength during adolescence. Journal of Applied Physiology, 2005, 99, 1317-1326.	2.5	15
58	Change, stability and prediction of gross motor co-ordination in Portuguese children. Annals of Human Biology, 2016, 43, 201-211.	1.0	15
59	Twin Resemblance in Muscle HIF-1Î± Responses to Hypoxia and Exercise. Frontiers in Physiology, 2016, 7, 676.	2.8	15
60	Rate of power development of the knee extensors across the adult life span: A cross-sectional study in 1387 Flemish Caucasians. Experimental Gerontology, 2018, 110, 260-266.	2.8	15
61	Associations of combined genetic and epigenetic scores with muscle size and muscle strength: a pilot study in older women. Journal of Cachexia, Sarcopenia and Muscle, 2020, 11, 1548-1561.	7.3	15
62	Genetic and Environmental Causes of Tracking in Explosive Strength during Adolescence. Behavior Genetics, 2005, 35, 551-563.	2.1	14
63	Motor performance, body fatness and environmental factors in preschool children. Journal of Sports Sciences, 2018, 36, 2289-2295.	2.0	14
64	Recurrent training rejuvenates and enhances transcriptome and methylome responses in young and older human muscle. JCSM Rapid Communications, 2022, 5, 10-32.	1.6	14
65	Genetics of somatotype and physical fitness in children and adolescents. American Journal of Human Biology, 2021, 33, e23470.	1.6	13
66	Prediction of adult height in girls: The Beunen-Malina-Freitas method. Journal of Sports Sciences, 2011, 29, 1683-1691.	2.0	12
67	High Twin Resemblance for Sensitivity to Hypoxia. Medicine and Science in Sports and Exercise, 2015, 47, 74-81.	0.4	12
68	Lipid profile in men and women with different levels of sports participation and physical activity. Public Health Nutrition, 2008, 11, 1098-1106.	2.2	11
69	A Quantitative Trait Locus on 13q14.2 for Trunk Strength. Twin Research and Human Genetics, 2004, 7, 603-606.	1.0	11
70	Sarcopenia, Obesity, and Sarcopenic Obesity: Relationship with Skeletal Muscle Phenotypes and Single Nucleotide Polymorphisms. Journal of Clinical Medicine, 2021, 10, 4933.	2.4	11
71	Adolescent physical performance and adult physical activity in Flemish males. American Journal of Human Biology, 2001, 13, 173-179.	1.6	10
72	Limited potential of genetic predisposition scores to predict muscle mass and strength performance in Flemish Caucasians between 19 and 73 years of age. Physiological Genomics, 2017, 49, 160-166.	2.3	10

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73	The stiffness response of type IIa fibres after eccentric exerciseâ€induced muscle damage is dependent on ACTN3 r577X polymorphism. European Journal of Sport Science, 2019, 19, 480-489.	2.7	9
74	Clustering of metabolic risk factors in young adults: Genes and environment. Atherosclerosis, 2008, 200, 168-176.	0.8	8
75	Genetic variation in human muscle strengthâ€"opportunities for therapeutic interventions?. Current Opinion in Pharmacology, 2012, 12, 355-362.	3.5	8
76	Muscular strength and diameter as determinants of aerobic power and aerobic power response to exercise training in CAD patients. Acta Cardiologica, 2012, 67, 399-406.	0.9	8
77	Short-term secular change in height, body mass and Tanner-Whitehouse 3 skeletal maturity of Madeira youth, Portugal. Annals of Human Biology, 2012, 39, 195-205.	1.0	7
78	Nutritional status and height, weight and BMI centiles of school-aged children and adolescents of 6â€“18-years from Kinshasa (DRC). Annals of Human Biology, 2017, 44, 554-561.	1.0	7
79	Genetic, Maternal and Placental Factors in the Association between Birth Weight and Physical Fitness: A Longitudinal Twin Study. PLoS ONE, 2013, 8, e76423.	2.5	7
80	A Genetic Predisposition Score Associates with Reduced Aerobic Capacity in Response to Acute Normobaric Hypoxia in Lowlanders. High Altitude Medicine and Biology, 2015, 16, 34-42.	0.9	6
81	Intensity-Specific Differential Leukocyte DNA Methylation in Physical (In)Activity: An Exploratory Approach. Twin Research and Human Genetics, 2018, 21, 101-111.	0.6	6
82	Physical Activity, Physical Fitness, Gross Motor Coordination, and Metabolic Syndrome: Focus of Twin Research in Portugal. Twin Research and Human Genetics, 2013, 16, 296-301.	0.6	6
83	Biological and environmental determinants of 12-minute run performance in youth. Annals of Human Biology, 2017, 44, 607-613.	1.0	5
84	Dietary Protein Requirement Threshold and Micronutrients Profile in Healthy Older Women Based on Relative Skeletal Muscle Mass. Nutrients, 2021, 13, 3076.	4.1	5
85	Polygenic Models Partially Predict Muscle Size and Strength but Not Low Muscle Mass in Older Women. Genes, 2022, 13, 982.	2.4	5
86	Genetic influences of sports participation in Portuguese families. European Journal of Sport Science, 2014, 14, 510-517.	2.7	4
87	The Genetic Background of Metabolic Trait Clusters in Children and Adolescents. Metabolic Syndrome and Related Disorders, 2017, 15, 329-336.	1.3	4
88	Commentary on Viewpoint: Perspective on the future use of genomics in exercise prescription. Journal of Applied Physiology, 2008, 104, 1251-1251.	2.5	3
89	Metabolic fitness in relation to genetic variation and leukocyte DNA methylation. Physiological Genomics, 2019, 51, 12-26.	2.3	2
90	Genetic aspects of sports practice: a twin study. Revista Paulista De EducaÃ§Ã£o FÃsica, 1999, 13, 160.	0.0	2

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91	Timing of Adolescent Somatic Maturity and Midlife Muscle Function. Medicine and Science in Sports and Exercise, 2009, 41, 1729-1734.	0.4	1
92	Genetic Predisposition Score for Hand Grip Strength in the General Population. Medicine and Science in Sports and Exercise, 2011, 43, 581.	0.4	1
93	The Genetic Effect on Muscular Changes in an Older Population: A Follow-Up Study after One-Year Cessation of Structured Training. Genes, 2020, 11, 968.	2.4	1
94	Daily physical activity and physical fitness from adolescence to adulthood: A longitudinal study. American Journal of Human Biology, 2000, 12, 487-497.	1.6	1
95	Alpha-actinin-3 R577X Genotype and Muscle Power in Young Male Adults of the Leuven Genes for Muscular Strength Study. Medicine and Science in Sports and Exercise, 2006, 38, S365-s366.	0.4	1
96	A Quantitative Trait Locus on 13q14.2 for Trunk Strength. Twin Research and Human Genetics, 2004, 7, 603-606.	1.0	1
97	AssociaÃ§Ã£o do envolvimento Ã actividade fÃsica e Ã aptidÃ£o em jovens madeirenses. Revista Portuguesa De CiÃªncias Do Desporto, 2008, 2008, 229-240.	0.0	1
98	Fundamental Concepts in Exercise Genomics. , 2011, , 1-22.		1
99	The Leuven Longitudinal Twin Study (LLTS): Major Findings. Twin Research and Human Genetics, 2007, 10, 15-18.	0.6	0
100	The First Longitudinal Study From Early Adolescence To Midlife For Muscle Function.. Medicine and Science in Sports and Exercise, 2010, 42, 98.	0.4	0
101	Use of different genetic predisposition score techniques to predict muscle mass and muscle function over the adult life span in Flemish Caucasians. Archives of Public Health, 2015, 73, .	2.4	0
102	(Epi)genetic variation in ageing of metabolic fitness. Archives of Public Health, 2015, 73, .	2.4	0
103	Linkage Analysis Between Myostatin and Titin Markers and Muscular Strength. Medicine and Science in Sports and Exercise, 2004, 36, S39-S40.	0.4	0
104	Linkage Analysis Of Myostatin Pathway Genes On Individual Factor Scores Of Human Muscularity. Medicine and Science in Sports and Exercise, 2005, 37, S472.	0.4	0
105	Nutritional Intake In Flemish Adults From The Age Of 18 Up To 75. Medicine and Science in Sports and Exercise, 2005, 37, S446.	0.4	0
106	Association Between Clusters Of Perceived Stress Correlates And Physical (in)activity In Adults. Medicine and Science in Sports and Exercise, 2005, 37, S462.	0.4	0
107	Familial Resemblance In Physical Activity. Medicine and Science in Sports and Exercise, 2005, 37, S327.	0.4	0
108	Familial Resemblance In Physical Fitness. Medicine and Science in Sports and Exercise, 2005, 37, S326-S327.	0.4	0

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109	Generational Differences In Physical Fitness. Medicine and Science in Sports and Exercise, 2005, 37, S323.	0.4	0
110	Prevalence Of Overweight And Obesity In Flemish Adults. Medicine and Science in Sports and Exercise, 2005, 37, S172.	0.4	0
111	Sedentary Behavior, Physical Activity and the Metabolic Syndrome among Flemish Adults. Medicine and Science in Sports and Exercise, 2006, 38, S203.	0.4	0
112	Validity of the Flemish Physical Activity Computerized Questionnaire (FPACQ).. Medicine and Science in Sports and Exercise, 2006, 38, S562.	0.4	0
113	Alpha-actinin-3 R577X Genotype is Associated with Muscle Power in Middle-aged Men and Women. Medicine and Science in Sports and Exercise, 2006, 38, S364.	0.4	0
114	Quantitative genetic analysis of physical activity in Portuguese nuclear families. Medicine and Science in Sports and Exercise, 2008, 40, S182.	0.4	0
115	Genome-wide Linkage Scan for Strength-velocity Relationship in Knee Strength: Evidence for Linkage at Chromosome 15q23. Medicine and Science in Sports and Exercise, 2008, 40, S45.	0.4	0
116	Genome-wide Linkage Scan For Resistance To Fatigue Of The Knee Flexors In Young Men. Medicine and Science in Sports and Exercise, 2008, 40, S184-S185.	0.4	0
117	Fitness And Cardiovascular Risk Factors In Males Of Contrasting Maturity Status.. Medicine and Science in Sports and Exercise, 2008, 40, S480.	0.4	0
118	Demographic And Social-cultural Correlates Of Physical Activity In Portuguese Adolescents 10-18 Years. Medicine and Science in Sports and Exercise, 2009, 41, 179.	0.4	0
119	Tracking In Fatness During Childhood, Adolescence And Adulthood: A 7-years Follow-up.. Medicine and Science in Sports and Exercise, 2009, 41, 125.	0.4	0
120	Longitudinal Twin Studies of Physical Fitness in Adolescents. Medicine and Science in Sports and Exercise, 2009, 41, 52.	0.4	0
121	Acute environmental hypoxia activates autophagy in human skeletal muscle (1167.2). FASEB Journal, 2014, 28, 1167.2.	0.5	0