

Chantal Simon

List of Publications by Year in descending order

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Version: 2024-02-01

103
papers

5,500
citations

57631

44
h-index

85405

71
g-index

105
all docs

105
docs citations

105
times ranked

8666
citing authors

#	ARTICLE	IF	CITATIONS
1	A systematic review of correlates of sedentary behaviour in adults aged 18â€“65 years: a socio-ecological approach. BMC Public Health, 2016, 16, 163.	1.2	345
2	Measuring the food environment using geographical information systems: a methodological review. Public Health Nutrition, 2010, 13, 1773-1785.	1.1	313
3	Plasma fatty acid composition is associated with the metabolic syndrome and low-grade inflammation in overweight adolescents. American Journal of Clinical Nutrition, 2005, 82, 1178-1184.	2.2	242
4	Emotional Eating, Alexithymia, and Bingeâ€“Eating Disorder in Obese Women. Obesity, 2003, 11, 195-201.	4.0	220
5	Physical inactivity as the culprit of metabolic inflexibility: evidence from bed-rest studies. Journal of Applied Physiology, 2011, 111, 1201-1210.	1.2	201
6	Prevalence of obesity among adult inpatients with COVID-19 in France. Lancet Diabetes and Endocrinology, the, 2020, 8, 562-564.	5.5	194
7	Inverse coupling between ultradian oscillations in delta wave activity and heart rate variability during sleep. Clinical Neurophysiology, 2001, 112, 992-996.	0.7	160
8	Resveratrol prevents the wasting disorders of mechanical unloading by acting as a physical exercise mimetic in the rat. FASEB Journal, 2011, 25, 3646-3660.	0.2	160
9	Dynamic heart rate variability: a tool for exploring sympathovagal balance continuously during sleep in men. American Journal of Physiology - Heart and Circulatory Physiology, 1998, 275, H946-H950.	1.5	140
10	Psychological determinants of physical activity across the life course: A "DEterminants of Diet and Physical ACTivity" (DEDIPAC) umbrella systematic literature review. PLoS ONE, 2017, 12, e0182709.	1.1	112
11	Alcohol intake and diet in France, the prominent role of lifestyle. European Heart Journal, 2004, 25, 1153-1162.	1.0	109
12	Behavioral determinants of physical activity across the life course: a "DEterminants of Diet and Physical ACTivity" (DEDIPAC) umbrella systematic literature review. International Journal of Behavioral Nutrition and Physical Activity, 2017, 14, 58.	2.0	100
13	EASLâ€“EASDâ€“EASO clinical practice guidelines for the management of non-alcoholic fatty liver disease in severely obese people: do they lead to over-referral?. Diabetologia, 2017, 60, 1218-1222.	2.9	95
14	High consumptions of grain, fish, dairy products and combinations of these are associated with a low prevalence of metabolic syndrome. Journal of Epidemiology and Community Health, 2007, 61, 810-817.	2.0	94
15	Twenty-four-hour profiles of plasma renin activity in relation to the sleep-wake cycle. Journal of Hypertension, 1994, 12, 277-284.	0.3	93
16	Physical Inactivity Differentially Alters Dietary Oleate and Palmitate Trafficking. Diabetes, 2009, 58, 367-376.	0.3	90
17	Physical Activity and Coronary Event Incidence in Northern Ireland and France. Circulation, 2002, 105, 2247-2252.	1.6	88
18	Effect of sleep deprivation on overall 24 h growth-hormone secretion. Lancet, The, 2000, 356, 1408.	6.3	84

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19	Associations of Supermarket Characteristics with Weight Status and Body Fat: A Multilevel Analysis of Individuals within Supermarkets (RECORD Study). PLoS ONE, 2012, 7, e32908.	1.1	82
20	Ultradian Oscillations of Insulin Secretion in Humans. Diabetes, 2002, 51, S258-S261.	0.3	80
21	Age-related changes in cardiac autonomic control during sleep. Journal of Sleep Research, 2003, 12, 173-180.	1.7	79
22	Associations between dietary patterns, physical activity (leisure-time and occupational) and television viewing in middle-aged French adults. British Journal of Nutrition, 2011, 105, 902-910.	1.2	78
23	Independent contribution of dairy products and calcium intake to blood pressure variations at a population level. Journal of Hypertension, 2006, 24, 671-681.	0.3	75
24	Family Dietary Coaching to Improve Nutritional Intakes and Body Weight Control. JAMA Pediatrics, 2008, 162, 34.	3.6	75
25	Descriptive study of sedentary behaviours in 35,444 French working adults: cross-sectional findings from the ACTI-CitÃ©s study. BMC Public Health, 2015, 15, 379.	1.2	72
26	Is slow wave sleep an appropriate recording condition for heart rate variability analysis?. Autonomic Neuroscience: Basic and Clinical, 2005, 121, 81-86.	1.4	70
27	Heart Rate Variability and Intensity of Habitual Physical Activity in Middle-Aged Persons. Medicine and Science in Sports and Exercise, 2005, 37, 1530-1534.	0.2	69
28	Estimating spatial accessibility to facilities on the regional scale: an extended commuting-based interaction potential model. International Journal of Health Geographics, 2011, 10, 2.	1.2	68
29	Association Between Television in Bedroom and Adiposity Throughout Adolescence**. Obesity, 2007, 15, 2495-2503.	1.5	64
30	Spatial heterogeneity of the relationships between environmental characteristics and active commuting: towards a locally varying social ecological model. International Journal of Health Geographics, 2015, 14, 12.	1.2	64
31	Mutational Analysis of the Pro-opiomelanocortin Gene in French Obese Children Led to the Identification of a Novel Deleterious Heterozygous Mutation Located in the \pm -Melanocyte Stimulating Hormone Domain. Pediatric Research, 2008, 63, 211-216.	1.1	62
32	Rare melanocortin-3 receptor mutations with in vitro functional consequences are associated with human obesity. Human Molecular Genetics, 2011, 20, 392-399.	1.4	60
33	Sleep Processes Exert a Predominant Influence on the 24-h Profile of Heart Rate Variability. Journal of Biological Rhythms, 2002, 17, 539-547.	1.4	59
34	Using concept mapping in the development of the EU-PAD framework (EUropean-Physical Activity) Tj ETQq0 0 0 rgBTj/Overlock 10 Tf 50	1.2	58
35	Should the WHO Growth Charts Be Used in France?. PLoS ONE, 2015, 10, e0120806.	1.1	56
36	Heart Rate Variability in Sportive Elderly: Relationship with Daily Physical Activity. Medicine and Science in Sports and Exercise, 2004, 36, 601-605.	0.2	53

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37	Regulation of Energy Balance during Long-Term Physical Inactivity Induced by Bed Rest with and without Exercise Training. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2010, 95, 1045-1053.	1.8	53
38	Identifying built environmental patterns using cluster analysis and GIS: Relationships with walking, cycling and body mass index in French adults. <i>International Journal of Behavioral Nutrition and Physical Activity</i> , 2012, 9, 59.	2.0	52
39	Investigating disparities in spatial accessibility to and characteristics of sport facilities: Direction, strength, and spatial scale of associations with area income. <i>Health and Place</i> , 2011, 17, 114-121.	1.5	51
40	The environmental correlates of overall and neighborhood based recreational walking (a) Tj ETQqO 0 0 rgBT /Overlock 10 Tf 50 627 Td (Physical Activity, 2014, 11, 20.	2.0	51
41	Neuroendocrine Processes Underlying Ultradian Sleep Regulation in Man. <i>Journal of Clinical Endocrinology and Metabolism</i> , 1999, 84, 2686-2690.	1.8	50
42	Interactions between traditional regional determinants and socio-economic status on dietary patterns in a sample of French men. <i>British Journal of Nutrition</i> , 2005, 93, 109-114.	1.2	50
43	Automatic identification of physical activity types and sedentary behaviors from triaxial accelerometer: laboratory-based calibrations are not enough. <i>Journal of Applied Physiology</i> , 2015, 118, 716-722.	1.2	50
44	Physical Activityâ€Related Energy Expenditure With the RT3 and TriTrac Accelerometers in Overweight Adults. <i>Obesity</i> , 2007, 15, 950-956.	1.5	48
45	Walking and cycling for commuting, leisure and errands: relations with individual characteristics and leisure-time physical activity in a cross-sectional survey (the ACTI-CitÃ©s project). <i>International Journal of Behavioral Nutrition and Physical Activity</i> , 2015, 12, 150.	2.0	46
46	Low-fat and high-fat dairy products are differently related to blood lipids and cardiovascular risk score. <i>European Journal of Preventive Cardiology</i> , 2014, 21, 1557-1567.	0.8	43
47	Accuracy of a New Patch Pump Based on a Microelectromechanical System (MEMS) Compared to Other Commercially Available Insulin Pumps. <i>Journal of Diabetes Science and Technology</i> , 2014, 8, 1133-1141.	1.3	42
48	Metabolic Inflexibility Is an Early Marker of Bed-Restâ€Induced Glucose Intolerance Even When Fat Mass Is Stable. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2018, 103, 1910-1920.	1.8	40
49	Activity energy expenditure is a major determinant of dietary fat oxidation and trafficking, but the deleterious effect of detraining is more marked than the beneficial effect of training at current recommendations. <i>American Journal of Clinical Nutrition</i> , 2013, 98, 648-658.	2.2	36
50	Built environment in local relation with walking: Why here and not there?. <i>Journal of Transport and Health</i> , 2016, 3, 500-512.	1.1	35
51	Metabolic reprogramming involving glycolysis in the hibernating brown bear skeletal muscle. <i>Frontiers in Zoology</i> , 2019, 16, 12.	0.9	34
52	Effect of contrasted levels of habitual physical activity on metabolic flexibility. <i>Journal of Applied Physiology</i> , 2013, 114, 371-379.	1.2	33
53	An artificial neural network to predict resting energy expenditure in obesity. <i>Clinical Nutrition</i> , 2018, 37, 1661-1669.	2.3	32
54	SREBP-1 Transcription Factors Regulate Skeletal Muscle Cell Size by Controlling Protein Synthesis through Myogenic Regulatory Factors. <i>PLoS ONE</i> , 2012, 7, e50878.	1.1	31

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55	Revisiting the Role of Exercise Countermeasure on the Regulation of Energy Balance During Space Flight. <i>Frontiers in Physiology</i> , 2019, 10, 321.	1.3	30
56	Proteolysis inhibition by hibernating bear serum leads to increased protein content in human muscle cells. <i>Scientific Reports</i> , 2018, 8, 5525.	1.6	29
57	Diet and physical activity profiles in French preadolescents. <i>British Journal of Nutrition</i> , 2006, 96, 501-7.	1.2	26
58	Genetic Association and Gene Expression Analysis Identify <i>FGFR1</i> as a New Susceptibility Gene for Human Obesity. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2011, 96, E962-E966.	1.8	25
59	Validation of a Short, Qualitative Food Frequency Questionnaire in French Adults Participating in the MONA LISA-NUT Study 2005-2007. <i>Journal of the Academy of Nutrition and Dietetics</i> , 2014, 114, 552-561.	0.4	25
60	Dietary linoleic acid interacts with <i>FADS1</i> genetic variability to modulate HDL-cholesterol and obesity-related traits. <i>Clinical Nutrition</i> , 2018, 37, 1683-1689.	2.3	25
61	Lipidomics Reveals Seasonal Shifts in a Large-Bodied Hibernator, the Brown Bear. <i>Frontiers in Physiology</i> , 2019, 10, 389.	1.3	25
62	A SDHB malignant paraganglioma with dramatic response to temozolomide+capecitabine. <i>European Journal of Endocrinology</i> , 2012, 166, 1107-1111.	1.9	24
63	A nutrient cocktail prevents lipid metabolism alterations induced by 20 days of daily steps reduction and fructose overfeeding: result from a randomized study. <i>Journal of Applied Physiology</i> , 2019, 126, 88-101.	1.2	24
64	Changes in Sedentary Behaviours and Associations with Physical Activity through Retirement: A 6-Year Longitudinal Study. <i>PLoS ONE</i> , 2014, 9, e106850.	1.1	23
65	False Hyperprolactinemia Corrected by the Use of Heterophilic Antibody-blocking Agent. <i>Clinical Chemistry</i> , 2001, 47, 2184-2185.	1.5	21
66	Physiology of physical inactivity, sedentary behaviours and non-exercise activity: insights from the space bedrest model. <i>Journal of Physiology</i> , 2022, 600, 1037-1051.	1.3	21
67	Classification of Periodic Activities Using the Wasserstein Distance. <i>IEEE Transactions on Biomedical Engineering</i> , 2012, 59, 1610-1619.	2.5	20
68	Is muscle and protein loss relevant in long-term fasting in healthy men? A prospective trial on physiological adaptations. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , 2021, 12, 1690-1703.	2.9	20
69	Seasonal changes in eicosanoid metabolism in the brown bear. <i>Die Naturwissenschaften</i> , 2018, 105, 58.	0.6	19
70	The acetate recovery factor to correct tracer-derived dietary fat oxidation in humans. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2008, 294, E645-E653.	1.8	18
71	Transition from physical activity to inactivity increases skeletal muscle miR-148b content and triggers insulin resistance. <i>Physiological Reports</i> , 2016, 4, e12902.	0.7	18
72	Assessment of sedentary behaviors and transport-related activities by questionnaire: a validation study. <i>BMC Public Health</i> , 2016, 16, 753.	1.2	18

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73	Effects of occupational and educational changes on obesity trends in France: The results of the MONICA-France survey 1986-2006. Preventive Medicine, 2011, 52, 305-309.	1.6	17
74	Effects of training and detraining on adiponectin plasma concentration and muscle sensitivity in lean and overweight men. European Journal of Applied Physiology, 2016, 116, 2135-2144.	1.2	17
75	Renin as a biological marker of the NREM-REM sleep cycle: effect of REM sleep suppression. Journal of Sleep Research, 1994, 3, 30-35.	1.7	15
76	Limited Oxidative Stress Favors Resistance to Skeletal Muscle Atrophy in Hibernating Brown Bears (Ursus Arctos). Antioxidants, 2019, 8, 334.	2.2	15
77	Neuroendocrine Processes Underlying Ultradian Sleep Regulation in Man. , 0, .		15
78	Effect of enforced physical inactivity induced by 60-day of bed rest on hepatic markers of NAFLD in healthy normal-weight women. Liver International, 2015, 35, 1700-1706.	1.9	14
79	Active Mobility and Environment: A Pilot Qualitative Study for the Design of a New Questionnaire. PLoS ONE, 2017, 12, e0168986.	1.1	14
80	Impact of Altered Alveolar Volume on the Diffusing Capacity of the Lung for Carbon Monoxide in Obesity. Respiration, 2011, 81, 217-222.	1.2	13
81	Breaking up Sedentary Time in Overweight/Obese Adults on Work Days and Non-Work Days: Results from a Feasibility Study. International Journal of Environmental Research and Public Health, 2018, 15, 2566.	1.2	11
82	Sleep as a Tool for Evaluating Autonomic Drive to the Heart in Cardiac Transplant Patients. Sleep, 2004, 27, 641-647.	0.6	10
83	Revue critique des questionnaires d'activité physique administrés en population française et perspectives de développement. Cahiers De Nutrition Et De Dietetique, 2012, 47, 234-241.	0.2	10
84	L-Arginine: An Ultradian-Regulated Substrate Coupled With Insulin Oscillations in Healthy Volunteers. Diabetes Care, 2003, 26, 168-171.	4.3	9
85	«Calories» et «sit»: quantité ou qualité?. Cahiers De Nutrition Et De Dietetique, 2010, 45, 180-189.		7
86	Effects of different levels of physical inactivity on plasma visfatin in healthy normal-weight men. Applied Physiology, Nutrition and Metabolism, 2013, 38, 689-693.	0.9	7
87	Concurrent BMP Signaling Maintenance and TGF- β 2 Signaling Inhibition Is a Hallmark of Natural Resistance to Muscle Atrophy in the Hibernating Bear. Cells, 2021, 10, 1873.	1.8	7
88	Estimation of physical activity monitored during the day-to-day life by an autonomous wearable device (SVELTE project). , 2013, 2013, 4629-32.		6
89	Hibernoma and multiple endocrine neoplasia type 1 syndrome: A non-fortuitous association? A case report and literature review. Annales D'Endocrinologie, 2017, 78, 194-197.	0.6	6
90	Glucose Uptake Measurement and Response to Insulin Stimulation in <i>In Vitro</i> Cultured Human Primary Myotubes. Journal of Visualized Experiments, 2017, , .	0.2	6

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91	Individual, Social, and Environmental Correlates of Active Transportation Patterns in French Women. <i>BioMed Research International</i> , 2017, 2017, 1-11.	0.9	6
92	Identification of a functional FADS1 3'UTR variant associated with erythrocyte n-6 polyunsaturated fatty acids levels. <i>Journal of Clinical Lipidology</i> , 2018, 12, 1280-1289.	0.6	6
93	Differential Associations of Walking and Cycling with Body Weight, Body Fat and Fat Distribution - the ACTI-Cit@'s Project. <i>Obesity Facts</i> , 2018, 11, 221-231.	1.6	6
94	The [1-13C]acetate recovery factor to correct tracer-derived dietary fat oxidation is lower in overweight insulin-resistant subjects. <i>European E-journal of Clinical Nutrition and Metabolism</i> , 2010, 5, e173-e179.	0.4	5
95	Neighborhood educational disparities in active commuting among women: the effect of distance between the place of residence and the place of work/study (an ACTI-Cit@'s study). <i>BMC Public Health</i> , 2017, 17, 569.	1.2	4
96	Perceptions of the environment moderate the effects of objectively-measured built environment attributes on active transport. An ACTI-Cit@'s study. <i>Journal of Transport and Health</i> , 2021, 20, 100972.	1.1	4
97	How interdisciplinary research at the crossroad between socio-cultural anthropology, nutritional and physical activity physiology can help addressing the obesity epidemic. <i>Cahiers De Nutrition Et De Dietetique</i> , 2021, 56, 51-58.	0.2	3
98	Functional electrical stimulation-cycling favours erectus position restoration and walking in patients with critical COVID-19. A proof-of-concept controlled study. <i>Annals of Physical and Rehabilitation Medicine</i> , 2021, 64, 101516.	1.1	3
99	Urinary C-peptide Is Not an Accurate Bioindicator of Energy Balance in Humans. <i>Obesity</i> , 2012, 20, 683-688.	1.5	2
100	Specific shifts in the endocannabinoid system in hibernating brown bears. <i>Frontiers in Zoology</i> , 2020, 17, 35.	0.9	2
101	Active mobility and health: contributions and limitations of a protocol for measuring walking and cycling combining motion sensors (GPS et accelerometer). <i>CyberGeo</i> , 0, , .	0.0	1
102	Personalization of a compartmental physiological model for an artificial pancreas through integration of patient's state estimation. , 2017, 2017, 1453-1456.		0
103	Le r@flexe c@phalique d'insulinos@'tion chez le sujet normal, l'ob@se et l'anorectique. <i>Reproduction, Nutrition, Development</i> , 1984, 24, 693-693.	1.9	0