

# Chantal Simon

## List of Publications by Citations

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102  
papers

4,254  
citations

40  
h-index

63  
g-index

105  
ext. papers

4,881  
ext. citations

4.7  
avg, IF

4.92  
L-index

#	Paper	IF	Citations
102	A systematic review of correlates of sedentary behaviour in adults aged 18-65 years: a socio-ecological approach. <i>BMC Public Health</i> , <b>2016</b> , 16, 163	4.1	266
101	Measuring the food environment using geographical information systems: a methodological review. <i>Public Health Nutrition</i> , <b>2010</b> , 13, 1773-85	3.3	241
100	Plasma fatty acid composition is associated with the metabolic syndrome and low-grade inflammation in overweight adolescents. <i>American Journal of Clinical Nutrition</i> , <b>2005</b> , 82, 1178-84	7	220
99	Emotional eating, alexithymia, and binge-eating disorder in obese women. <i>Obesity</i> , <b>2003</b> , 11, 195-201		168
98	Physical inactivity as the culprit of metabolic inflexibility: evidence from bed-rest studies. <i>Journal of Applied Physiology</i> , <b>2011</b> , 111, 1201-10	3.7	159
97	Prevalence of obesity among adult inpatients with COVID-19 in France. <i>Lancet Diabetes and Endocrinology</i> , <b>2020</b> , 8, 562-564	18.1	149
96	Resveratrol prevents the wasting disorders of mechanical unloading by acting as a physical exercise mimetic in the rat. <i>FASEB Journal</i> , <b>2011</b> , 25, 3646-60	0.9	140
95	Inverse coupling between ultradian oscillations in delta wave activity and heart rate variability during sleep. <i>Clinical Neurophysiology</i> , <b>2001</b> , 112, 992-6	4.3	128
94	Alcohol intake and diet in France, the prominent role of lifestyle. <i>European Heart Journal</i> , <b>2004</b> , 25, 1153-62	6.2	95
93	Dynamic heart rate variability: a tool for exploring sympathovagal balance continuously during sleep in men. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>1998</b> , 275, H946-50	5.2	93
92	High consumptions of grain, fish, dairy products and combinations of these are associated with a low prevalence of metabolic syndrome. <i>Journal of Epidemiology and Community Health</i> , <b>2007</b> , 61, 810-7	5.1	87
91	Physical activity and coronary event incidence in Northern Ireland and France: the Prospective Epidemiological Study of Myocardial Infarction (PRIME). <i>Circulation</i> , <b>2002</b> , 105, 2247-52	16.7	78
90	Twenty-four-hour profiles of plasma renin activity in relation to the sleep-wake cycle. <i>Journal of Hypertension</i> , <b>1994</b> , 12, 277-84	1.9	76
89	Physical inactivity differentially alters dietary oleate and palmitate trafficking. <i>Diabetes</i> , <b>2009</b> , 58, 367-76	6.9	72
88	Associations of supermarket characteristics with weight status and body fat: a multilevel analysis of individuals within supermarkets (RECORD study). <i>PLoS ONE</i> , <b>2012</b> , 7, e32908	3.7	72
87	Behavioral determinants of physical activity across the life course: a "DEterminants of Diet and Physical ACTivity" (DEDIPAC) umbrella systematic literature review. <i>International Journal of Behavioral Nutrition and Physical Activity</i> , <b>2017</b> , 14, 58	8.4	69
86	EASL-EASD-EASO clinical practice guidelines for the management of non-alcoholic fatty liver disease in severely obese people: do they lead to over-referral?. <i>Diabetologia</i> , <b>2017</b> , 60, 1218-1222	10.3	68

85	Ultradian oscillations of insulin secretion in humans. <i>Diabetes</i> , <b>2002</b> , 51 Suppl 1, S258-61	0.9	68
84	Age-related changes in cardiac autonomic control during sleep. <i>Journal of Sleep Research</i> , <b>2003</b> , 12, 173-80	3.0	66
83	Associations between dietary patterns, physical activity (leisure-time and occupational) and television viewing in middle-aged French adults. <i>British Journal of Nutrition</i> , <b>2011</b> , 105, 902-10	3.6	64
82	Independent contribution of dairy products and calcium intake to blood pressure variations at a population level. <i>Journal of Hypertension</i> , <b>2006</b> , 24, 671-81	1.9	63
81	Effect of sleep deprivation on overall 24 h growth-hormone secretion. <i>Lancet, The</i> , <b>2000</b> , 356, 1408	4.0	63
80	Family dietary coaching to improve nutritional intakes and body weight control: a randomized controlled trial. <i>JAMA Pediatrics</i> , <b>2008</b> , 162, 34-43		58
79	Psychological determinants of physical activity across the life course: A "DEterminants of Diet and Physical ACTivity" (DEDIPAC) umbrella systematic literature review. <i>PLoS ONE</i> , <b>2017</b> , 12, e0182709	3.7	57
78	Association between television in bedroom and adiposity throughout adolescence. <i>Obesity</i> , <b>2007</b> , 15, 2495-503	8	57
77	Descriptive study of sedentary behaviours in 35,444 French working adults: cross-sectional findings from the ACTI-CitÉ study. <i>BMC Public Health</i> , <b>2015</b> , 15, 379	4.1	55
76	Is slow wave sleep an appropriate recording condition for heart rate variability analysis?. <i>Autonomic Neuroscience: Basic and Clinical</i> , <b>2005</b> , 121, 81-6	2.4	55
75	Rare melanocortin-3 receptor mutations with in vitro functional consequences are associated with human obesity. <i>Human Molecular Genetics</i> , <b>2011</b> , 20, 392-9	5.6	54
74	Mutational analysis of the pro-opiomelanocortin gene in French obese children led to the identification of a novel deleterious heterozygous mutation located in the alpha-melanocyte stimulating hormone domain. <i>Pediatric Research</i> , <b>2008</b> , 63, 211-6	3.2	54
73	Spatial heterogeneity of the relationships between environmental characteristics and active commuting: towards a locally varying social ecological model. <i>International Journal of Health Geographics</i> , <b>2015</b> , 14, 12	3.5	53
72	Heart rate variability and intensity of habitual physical activity in middle-aged persons. <i>Medicine and Science in Sports and Exercise</i> , <b>2005</b> , 37, 1530-4	1.2	53
71	Estimating spatial accessibility to facilities on the regional scale: an extended commuting-based interaction potential model. <i>International Journal of Health Geographics</i> , <b>2011</b> , 10, 2	3.5	51
70	Sleep processes exert a predominant influence on the 24-h profile of heart rate variability. <i>Journal of Biological Rhythms</i> , <b>2002</b> , 17, 539-47	3.2	50
69	Heart rate variability in sportive elderly: relationship with daily physical activity. <i>Medicine and Science in Sports and Exercise</i> , <b>2004</b> , 36, 601-5	1.2	46
68	Neuroendocrine processes underlying ultradian sleep regulation in man. <i>Journal of Clinical Endocrinology and Metabolism</i> , <b>1999</b> , 84, 2686-90	5.6	45

67	The environmental correlates of overall and neighborhood based recreational walking (a cross-sectional analysis of the RECORD Study). <i>International Journal of Behavioral Nutrition and Physical Activity</i> , <b>2014</b> , 11, 20	8.4	43
66	Automatic identification of physical activity types and sedentary behaviors from triaxial accelerometer: laboratory-based calibrations are not enough. <i>Journal of Applied Physiology</i> , <b>2015</b> , 118, 716-22	3.7	42
65	Interactions between traditional regional determinants and socio-economic status on dietary patterns in a sample of French men. <i>British Journal of Nutrition</i> , <b>2005</b> , 93, 109-14	3.6	42
64	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> , <b>2010</b> , 95, 1045-53	5.6	41
63	Should the WHO growth charts be used in France?. <i>PLoS ONE</i> , <b>2015</b> , 10, e0120806	3.7	40
62	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> , <b>2012</b> , 9, 59	8.4	40
61	Physical activity-related energy expenditure with the RT3 and TriTrac accelerometers in overweight adults. <i>Obesity</i> , <b>2007</b> , 15, 950-6	8	40
60	Walking and cycling for commuting, leisure and errands: relations with individual characteristics and leisure-time physical activity in a cross-sectional survey (the ACTI-Cit� project). <i>International Journal of Behavioral Nutrition and Physical Activity</i> , <b>2015</b> , 12, 150	8.4	38
59	Using concept mapping in the development of the EU-PAD framework (EUropean-Physical Activity Determinants across the life course): a DEDIPAC-study. <i>BMC Public Health</i> , <b>2016</b> , 16, 1145	4.1	37
58	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> , <b>2011</b> , 17, 114-21	4.6	35
57	Accuracy of a new patch pump based on a microelectromechanical system (MEMS) compared to other commercially available insulin pumps: results of the first in vitro and in vivo studies. <i>Journal of Diabetes Science and Technology</i> , <b>2014</b> , 8, 1133-41	4.1	31
56	Low-fat and high-fat dairy products are differently related to blood lipids and cardiovascular risk score. <i>European Journal of Preventive Cardiology</i> , <b>2014</b> , 21, 1557-67	3.9	30
55	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> , <b>2013</b> , 98, 648-58	7	30
54	SREBP-1 transcription factors regulate skeletal muscle cell size by controlling protein synthesis through myogenic regulatory factors. <i>PLoS ONE</i> , <b>2012</b> , 7, e50878	3.7	27
53	Built environment in local relation with walking: Why here and not there?. <i>Journal of Transport and Health</i> , <b>2016</b> , 3, 500-512	3	26
52	Effect of contrasted levels of habitual physical activity on metabolic flexibility. <i>Journal of Applied Physiology</i> , <b>2013</b> , 114, 371-9	3.7	24
51	Genetic association and gene expression analysis identify FGFR1 as a new susceptibility gene for human obesity. <i>Journal of Clinical Endocrinology and Metabolism</i> , <b>2011</b> , 96, E962-6	5.6	22
50	Diet and physical activity profiles in French preadolescents. <i>British Journal of Nutrition</i> , <b>2006</b> , 96, 501-7	3.6	22

49	Proteolysis inhibition by hibernating bear serum leads to increased protein content in human muscle cells. <i>Scientific Reports</i> , <b>2018</b> , 8, 5525	4.9	21
48	Metabolic reprogramming involving glycolysis in the hibernating brown bear skeletal muscle. <i>Frontiers in Zoology</i> , <b>2019</b> , 16, 12	2.8	20
47	Changes in sedentary behaviours and associations with physical activity through retirement: a 6-year longitudinal study. <i>PLoS ONE</i> , <b>2014</b> , 9, e106850	3.7	20
46	Metabolic Inflexibility Is an Early Marker of Bed-Rest-Induced Glucose Intolerance Even When Fat Mass Is Stable. <i>Journal of Clinical Endocrinology and Metabolism</i> , <b>2018</b> , 103, 1910-1920	5.6	18
45	An artificial neural network to predict resting energy expenditure in obesity. <i>Clinical Nutrition</i> , <b>2018</b> , 37, 1661-1669	5.9	18
44	The acetate recovery factor to correct tracer-derived dietary fat oxidation in humans. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2008</b> , 294, E645-53	6	18
43	False Hyperprolactinemia Corrected by the Use of Heterophilic Antibody-blocking Agent. <i>Clinical Chemistry</i> , <b>2001</b> , 47, 2184-2185	5.5	18
42	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> , <b>2014</b> , 114, 552-61	3.9	17
41	Classification of periodic activities using the Wasserstein distance. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2012</b> , 59, 1610-9	5	16
40	Effects of occupational and educational changes on obesity trends in France: the results of the MONICA-France survey 1986-2006. <i>Preventive Medicine</i> , <b>2011</b> , 52, 305-9	4.3	16
39	Lipidomics Reveals Seasonal Shifts in a Large-Bodied Hibernator, the Brown Bear. <i>Frontiers in Physiology</i> , <b>2019</b> , 10, 389	4.6	15
38	A SDHB malignant paraganglioma with dramatic response to temozolomide-capecitabine. <i>European Journal of Endocrinology</i> , <b>2012</b> , 166, 1107-11	6.5	15
37	Renin as a biological marker of the NREM-REM sleep cycle: effect of REM sleep suppression. <i>Journal of Sleep Research</i> , <b>1994</b> , 3, 30-35	5.8	15
36	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> , <b>2019</b> , 126, 88-101	3.7	14
35	Revisiting the Role of Exercise Countermeasure on the Regulation of Energy Balance During Space Flight. <i>Frontiers in Physiology</i> , <b>2019</b> , 10, 321	4.6	13
34	Neuroendocrine Processes Underlying Ultradian Sleep Regulation in Man		13
33	Transition from physical activity to inactivity increases skeletal muscle miR-148b content and triggers insulin resistance. <i>Physiological Reports</i> , <b>2016</b> , 4, e12902	2.6	13
32	Effects of training and detraining on adiponectin plasma concentration and muscle sensitivity in lean and overweight men. <i>European Journal of Applied Physiology</i> , <b>2016</b> , 116, 2135-2144	3.4	12

31	Active Mobility and Environment: A Pilot Qualitative Study for the Design of a New Questionnaire. <i>PLoS ONE</i> , <b>2017</b> , 12, e0168986	3.7	11
30	Assessment of sedentary behaviors and transport-related activities by questionnaire: a validation study. <i>BMC Public Health</i> , <b>2016</b> , 16, 753	4.1	11
29	Dietary linoleic acid interacts with FADS1 genetic variability to modulate HDL-cholesterol and obesity-related traits. <i>Clinical Nutrition</i> , <b>2018</b> , 37, 1683-1689	5.9	10
28	Seasonal changes in eicosanoid metabolism in the brown bear. <i>Die Naturwissenschaften</i> , <b>2018</b> , 105, 58	2	10
27	Impact of altered alveolar volume on the diffusing capacity of the lung for carbon monoxide in obesity. <i>Respiration</i> , <b>2011</b> , 81, 217-22	3.7	9
26	Limited Oxidative Stress Favors Resistance to Skeletal Muscle Atrophy in Hibernating Brown Bears (). <i>Antioxidants</i> , <b>2019</b> , 8,	7.1	8
25	Effect of enforced physical inactivity induced by 60-day of bed rest on hepatic markers of NAFLD in healthy normal-weight women. <i>Liver International</i> , <b>2015</b> , 35, 1700-6	7.9	8
24	Sleep as a tool for evaluating autonomic drive to the heart in cardiac transplant patients. <i>Sleep</i> , <b>2004</b> , 27, 641-7	1.1	8
23	Consommation de produits laitiers et facteurs de risque cardiovasculaire dans l'Étude MONICA. <i>Cahiers De Nutrition Et De Dietetique</i> , <b>2006</b> , 41, 33-38	0.2	7
22	L-arginine: an ultradian-regulated substrate coupled with insulin oscillations in healthy volunteers. <i>Diabetes Care</i> , <b>2003</b> , 26, 168-71	14.6	7
21	Estimation of physical activity monitored during the day-to-day life by an autonomous wearable device (SVELTE project). <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2013</b> , 2013, 4629-32	0.9	6
20	Revue critique des questionnaires d'activité physique administrés en population française et perspectives de développement. <i>Cahiers De Nutrition Et De Dietetique</i> , <b>2012</b> , 47, 234-241	0.2	6
19	Glucose Uptake Measurement and Response to Insulin Stimulation in In Vitro Cultured Human Primary Myotubes. <i>Journal of Visualized Experiments</i> , <b>2017</b> ,	1.6	5
18	Effects of different levels of physical inactivity on plasma visfatin in healthy normal-weight men. <i>Applied Physiology, Nutrition and Metabolism</i> , <b>2013</b> , 38, 689-93	3	5
17	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> , <b>2010</b> , 5, e173-e179		5
16	Breaking up Sedentary Time in Overweight/Obese Adults on Work Days and Non-Work Days: Results from a Feasibility Study. <i>International Journal of Environmental Research and Public Health</i> , <b>2018</b> , 15,	4.6	5
15	Identification of a functional FADS1 3'UTR variant associated with erythrocyte n-6 polyunsaturated fatty acids levels. <i>Journal of Clinical Lipidology</i> , <b>2018</b> , 12, 1280-1289	4.9	5
14	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-Cité study). <i>BMC Public Health</i> , <b>2017</b> , 17, 569	4.1	4

13	Individual, Social, and Environmental Correlates of Active Transportation Patterns in French Women. <i>BioMed Research International</i> , <b>2017</b> , 2017, 9069730	3	4
12	« Calories » et obésité : quantité ou qualité?. <i>Cahiers De Nutrition Et De Dietetique</i> , <b>2010</b> , 45, 180-189	0.2	4
11	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> , <b>2021</b> ,	10.3	4
10	Physiology of physical inactivity, sedentary behaviours and non-exercise activity: insights from the space bedrest model. <i>Journal of Physiology</i> , <b>2021</b> ,	3.9	4
9	Hibernoma and multiple endocrine neoplasia type 1 syndrome: A non-fortuitous association? A case report and literature review. <i>Annales DiEndocrinologie</i> , <b>2017</b> , 78, 194-197	1.7	3
8	Urinary C-peptide is not an accurate bioindicator of energy balance in humans. <i>Obesity</i> , <b>2012</b> , 20, 683-8	8	2
7	Functional electrical stimulation-cycling favours erector position restoration and walking in patients with critical COVID-19. A proof-of-concept controlled study. <i>Annals of Physical and Rehabilitation Medicine</i> , <b>2021</b> , 64, 101516	3.8	2
6	Perceptions of the environment moderate the effects of objectively-measured built environment attributes on active transport. An ACTI-City study. <i>Journal of Transport and Health</i> , <b>2021</b> , 20, 100972	3	2
5	Specific shifts in the endocannabinoid system in hibernating brown bears. <i>Frontiers in Zoology</i> , <b>2020</b> , 17, 35	2.8	1
4	Differential Associations of Walking and Cycling with Body Weight, Body Fat and Fat Distribution - the ACTI-City Project. <i>Obesity Facts</i> , <b>2018</b> , 11, 221-231	5.1	1
3	Mobilité active et santé : apports et limites d'un protocole de mesure de la marche et du vélo combinant des capteurs de mouvements (GPS et accéléromètres). <i>CyberGeo</i> ,		1
2	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> , <b>2021</b> , 56, 51-58	0.2	0
1	Personalization of a compartmental physiological model for an artificial pancreas through integration of patient's state estimation. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2017</b> , 2017, 1453-1456	0.9	