

Alan A Cohen

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

104
papers

3,539
citations

32
h-index

58
g-index

120
ext. papers

4,456
ext. citations

5
avg, IF

5.76
L-index

#	Paper	IF	Citations
104	Immunosenescence and Inflamm-Aging As Two Sides of the Same Coin: Friends or Foes?. <i>Frontiers in Immunology</i> , 2017 , 8, 1960	8.4	502
103	Adult and child malaria mortality in India: a nationally representative mortality survey. <i>Lancet, The</i> , 2010 , 376, 1768-74	40	197
102	Inflamm-aging does not simply reflect increases in pro-inflammatory markers. <i>Mechanisms of Ageing and Development</i> , 2014 , 139, 49-57	5.6	158
101	Eleven Telomere, Epigenetic Clock, and Biomarker-Composite Quantifications of Biological Aging: Do They Measure the Same Thing?. <i>American Journal of Epidemiology</i> , 2018 , 187, 1220-1230	3.8	137
100	Physiological regulatory networks: ecological roles and evolutionary constraints. <i>Trends in Ecology and Evolution</i> , 2012 , 27, 428-35	10.9	137
99	No simple answers for ecological immunology: relationships among immune indices at the individual level break down at the species level in waterfowl. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2006 , 273, 815-22	4.4	134
98	Measuring circulating antioxidants in wild birds. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2007 , 147, 110-21	2.3	133
97	Female post-reproductive lifespan: a general mammalian trait. <i>Biological Reviews</i> , 2004 , 79, 733-50	13.5	120
96	What does carotenoid-dependent coloration tell? Plasma carotenoid level signals immunocompetence and oxidative stress state in birds-A meta-analysis. <i>PLoS ONE</i> , 2012 , 7, e43088	3.7	118
95	Interspecific associations between circulating antioxidant levels and life-history variation in birds. <i>American Naturalist</i> , 2008 , 172, 178-93	3.7	95
94	A novel statistical approach shows evidence for multi-system physiological dysregulation during aging. <i>Mechanisms of Ageing and Development</i> , 2013 , 134, 110-7	5.6	90
93	Homeostatic dysregulation proceeds in parallel in multiple physiological systems. <i>Aging Cell</i> , 2015 , 14, 1103-12	9.9	85
92	No simple measures for antioxidant status in birds: complexity in inter- and intraspecific correlations among circulating antioxidant types. <i>Functional Ecology</i> , 2009 , 23, 310-320	5.6	82
91	Serum antioxidant levels in wild birds vary in relation to diet, season, life history strategy, and species. <i>Oecologia</i> , 2009 , 161, 673-83	2.9	78
90	How to measure oxidative stress in an ecological context: methodological and statistical issues. <i>Functional Ecology</i> , 2010 , 24, 960-970	5.6	74
89	Complex systems dynamics in aging: new evidence, continuing questions. <i>Biogerontology</i> , 2016 , 17, 205-205	4.0	72
88	Frailty, Inflammation and Immunosenescence. <i>Interdisciplinary Topics in Gerontology and Geriatrics</i> , 2015 , 41, 26-40	3	57

87	Deep transcriptome annotation enables the discovery and functional characterization of cryptic small proteins. <i>ELife</i> , 2017 , 6,	8.9	57
86	The ecological significance of antioxidants and oxidative stress: a marriage between mechanistic and functional perspectives. <i>Functional Ecology</i> , 2010 , 24, 947-949	5.6	55
85	Aging across the tree of life: The importance of a comparative perspective for the use of animal models in aging. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2018 , 1864, 2680-2689	6.9	52
84	Detection of a novel, integrative aging process suggests complex physiological integration. <i>PLoS ONE</i> , 2015 , 10, e0116489	3.7	52
83	Stress, metabolism, and antioxidants in two wild passerine bird species. <i>Physiological and Biochemical Zoology</i> , 2008 , 81, 463-72	2	47
82	Environmental Factors Associated With Social Participation of Older Adults Living in Metropolitan, Urban, and Rural Areas: The NuAge Study. <i>American Journal of Public Health</i> , 2015 , 105, 1718-25	5.1	46
81	Trajectories of physiological dysregulation predicts mortality and health outcomes in a consistent manner across three populations. <i>Mechanisms of Ageing and Development</i> , 2014 , 141-142, 56-63	5.6	45
80	Comparative effectiveness and safety of antipsychotic drugs in schizophrenia treatment: a real-world observational study. <i>Acta Psychiatrica Scandinavica</i> , 2016 , 134, 374-384	6.5	43
79	The physical frailty syndrome as a transition from homeostatic symphony to cacophony. <i>Nature Aging</i> , 2021 , 1, 36-46		40
78	Cross-population validation of statistical distance as a measure of physiological dysregulation during aging. <i>Experimental Gerontology</i> , 2014 , 57, 203-10	4.5	39
77	Statistical distance as a measure of physiological dysregulation is largely robust to variation in its biomarker composition. <i>PLoS ONE</i> , 2015 , 10, e0122541	3.7	39
76	Mother's curse neutralizes natural selection against a human genetic disease over three centuries. <i>Nature Ecology and Evolution</i> , 2017 , 1, 1400-1406	12.3	35
75	Recognition of the polycistronic nature of human genes is critical to understanding the genotype-phenotype relationship. <i>Genome Research</i> , 2018 , 28, 609-624	9.7	34
74	Health and Aging: Unifying Concepts, Scores, Biomarkers and Pathways 2019 , 10, 883-900		34
73	A novel integrative method for measuring body condition in ecological studies based on physiological dysregulation. <i>Methods in Ecology and Evolution</i> , 2014 , 5, 146-155	7.7	32
72	The Summary Index of Malaria Surveillance (SIMS): a stable index of malaria within India. <i>Population Health Metrics</i> , 2010 , 8, 1	3	30
71	Age-related patterns of fertility in captive populations of birds and mammals. <i>Experimental Gerontology</i> , 2003 , 38, 741-5	4.5	30
70	Ecological immunology in a fluctuating environment: an integrative analysis of tree swallow nestling immune defense. <i>Ecology and Evolution</i> , 2013 , 3, 1091-103	2.8	28

69	Optimal Versus Realized Trajectories of Physiological Dysregulation in Aging and Their Relation to Sex-Specific Mortality Risk. <i>Frontiers in Public Health</i> , 2016 , 4, 3	6	28
68	Maternal levels of endocrine disruptors, polybrominated diphenyl ethers, in early pregnancy are not associated with lower birth weight in the Canadian birth cohort GESTE. <i>Environmental Health</i> , 2016 , 15, 49	6	27
67	"Physiological Dysregulation" as a Promising Measure of Robustness and Resilience in Studies of Aging and a New Indicator of Preclinical Disease. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2019 , 74, 462-468	6.4	27
66	Lack of consensus on an aging biology paradigm? A global survey reveals an agreement to disagree, and the need for an interdisciplinary framework. <i>Mechanisms of Ageing and Development</i> , 2020 , 191, 111316	5.6	26
65	Rural-urban disparities in the management and health issues of chronic diseases in Quebec (Canada) in the early 2000s. <i>Rural and Remote Health</i> , 2010 , 10, 1548	1.3	26
64	The conundrum of human immune system "senescence". <i>Mechanisms of Ageing and Development</i> , 2020 , 192, 111357	5.6	25
63	Are We Ill Because We Age?. <i>Frontiers in Physiology</i> , 2019 , 10, 1508	4.6	24
62	Effects of categorization method, regression type, and variable distribution on the inflation of Type-I error rate when categorizing a confounding variable. <i>Statistics in Medicine</i> , 2015 , 34, 936-49	2.3	23
61	Are trade-offs really the key drivers of ageing and life span?. <i>Functional Ecology</i> , 2020 , 34, 153-166	5.6	23
60	Does elapsed time between first diagnosis of schizophrenia and migration between health territories vary by place of residence? A survival analysis approach. <i>Health and Place</i> , 2013 , 20, 66-74	4.6	20
59	Co-existence of multiple trade-off currencies shapes evolutionary outcomes. <i>PLoS ONE</i> , 2017 , 12, e0189124	3.74	19
58	The risks of biomarker-based epidemiology: Associations of circulating calcium levels with age, mortality, and frailty vary substantially across populations. <i>Experimental Gerontology</i> , 2018 , 107, 11-17	4.5	19
57	No consistent effects of prenatal or neonatal exposure to Spanish flu on late-life mortality in 24 developed countries. <i>Demographic Research</i> , 2010 , 22, 579-634	1	19
56	Conservation of physiological dysregulation signatures of aging across primates. <i>Aging Cell</i> , 2019 , 18, e12925	9.9	16
55	Deep biomarkers of aging are population-dependent. <i>Aging</i> , 2016 , 8, 2253-2255	5.6	13
54	Ecological, biomedical and epidemiological approaches to understanding oxidative balance and ageing: what they can teach each other. <i>Functional Ecology</i> , 2010 , 24, 997-1006	5.6	12
53	Complexity in relationships between antioxidants and individual life-history parameters in a seabird and a songbird. <i>Oikos</i> , 2009 , 118, 1854-1861	4	11
52	Association between Floods and Acute Cardiovascular Diseases: A Population-Based Cohort Study Using a Geographic Information System Approach. <i>International Journal of Environmental Research and Public Health</i> , 2016 , 13, 168	4.6	11

51	Men Sustain Higher Dysregulation Levels Than Women Without Becoming Frail. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2018 , 73, 175-184	6.4	10
50	Stress responsive biochemical anabolic/catabolic ratio and telomere length in older adults. <i>Biodemography and Social Biology</i> , 2014 , 60, 174-84	1.1	10
49	What if there's no such thing as "aging"?. <i>Mechanisms of Ageing and Development</i> , 2020 , 192, 111344	5.6	10
48	Modified metabolic syndrome criteria for identification of patients at risk of developing diabetes and coronary heart diseases: longitudinal assessment via electronic health records. <i>Canadian Journal of Cardiology</i> , 2012 , 28, 744-9	3.8	9
47	Healthspan pathway maps in and humans highlight transcription, proliferation/biosynthesis and lipids. <i>Aging</i> , 2020 , 12, 12534-12581	5.6	9
46	Developments in molecular epidemiology of aging. <i>Emerging Topics in Life Sciences</i> , 2019 , 3, 411-421	3.5	8
45	Estimation of homeostatic dysregulation and frailty using biomarker variability: a principal component analysis of hemodialysis patients. <i>Scientific Reports</i> , 2020 , 10, 10314	4.9	8
44	Evidence from two cohorts for the frailty syndrome as an emergent state of parallel dysregulation in multiple physiological systems. <i>Biogerontology</i> , 2021 , 22, 63-79	4.5	8
43	Physiological and Comparative Evidence Fails to Confirm an Adaptive Role for Aging in Evolution. <i>Current Aging Science</i> , 2015 , 8, 14-23	2.2	7
42	Is Aging Biology Ageist?. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2020 , 75, 1653-1655	6.4	7
41	A theoretical model of the evolution of actuarial senescence under environmental stress. <i>Experimental Gerontology</i> , 2015 , 71, 80-8	4.5	6
40	Validating metabolic syndrome through principal component analysis in a medically diverse, realistic cohort. <i>Metabolic Syndrome and Related Disorders</i> , 2013 , 11, 21-8	2.6	6
39	Neighbourhood immigration, health care utilization and outcomes in patients with diabetes living in the Montreal metropolitan area (Canada): a population health perspective. <i>BMC Health Services Research</i> , 2015 , 15, 146	2.9	6
38	Physiological predictors of reproductive performance in the European Starling (). <i>Frontiers in Zoology</i> , 2018 , 15, 45	2.8	6
37	An Emergent Integrated Aging Process Conserved Across Primates. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2019 , 74, 1689-1698	6.4	5
36	Causes and short-term consequences of variation in milk composition in wild sheep. <i>Journal of Animal Ecology</i> , 2019 , 88, 857-869	4.7	5
35	Taxonomic Diversity, Complexity and the Evolution of Senescence83-102		4
34	Telomere, epigenetic clock, and biomarker-composite quantifications of biological aging: Do they measure the same thing?		4

33	Comparing Biological Age Estimates Using Domain-Specific Measures From the Canadian Longitudinal Study on Aging. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2021 , 76, 187-194	6.4	4
32	Robust Physiological Metrics From Sparsely Sampled Networks. <i>Frontiers in Physiology</i> , 2021 , 12, 6240974.6	4.6	4
31	Beta-blockers are associated with increased risk of first cardiovascular events in non-diabetic hypertensive elderly patients. <i>Pharmacoepidemiology and Drug Safety</i> , 2014 , 23, 1139-46	2.6	3
30	Author response: Deep transcriptome annotation enables the discovery and functional characterization of cryptic small proteins 2017 ,		3
29	Prediction of Mortality in Hemodialysis Patients Using Moving Multivariate Distance. <i>Frontiers in Physiology</i> , 2021 , 12, 612494	4.6	2
28	Physiological and comparative evidence fails to confirm an adaptive role for aging in evolution. <i>Current Aging Science</i> , 2015 , 8, 14-23	2.2	2
27	Milk composition in a wild mammal: a physiological signature of phenological changes. <i>Oecologia</i> , 2020 , 193, 349-358	2.9	1
26	Amorcer un traitement antipsychotique en schizophr�ie : la situation au Qu�bec de 1998 �2006. <i>Sante Mentale Au Quebec</i> , 2017 , 42, 85-103	0.2	1
25	Circulating carotenoid concentrations are positively correlated with later clutch initiation in Florida Scrub-Jays (<i>Aphelocoma coerulescens</i>). <i>Journal of Experimental Zoology</i> , 2011 , 315A, 101-10		1
24	Immunological Theory of Aging 2019 , 1-10		1
23	Are There Reliable Biomarkers for Immunosenescence and Inflammaging?. <i>Healthy Ageing and Longevity</i> , 2019 , 231-251	0.5	1
22	The frailty syndrome as an emergent state of parallel dysregulation in multiple physiological systems		1
21	Physiological System Dysregulation in Gene Expression Correlates Negatively with Age		1
20	Newfound coding potential of transcripts unveils missing members of human protein communities		1
19	Why we should use topological data analysis in ageing: Towards defining the "topological shape of ageing". <i>Mechanisms of Ageing and Development</i> , 2020 , 192, 111390	5.6	1
18	In search of China's income-health gradient: a biomarker-based analysis. <i>Applied Economics</i> , 2021 , 53, 5599-5618	1.6	1
17	Social participation and barriers to community activities among middle-aged and older Canadians: Differences and similarities according to gender and age. <i>Geriatrics and Gerontology International</i> , 2021 , 21, 77-84	2.9	1
16	Effects of Sex and Physical Activity Level on Serum Biomarker-Based Physiological Dysregulation: The Impact to Predict Frailty and Mortality in the Quebec NuAge Cohort. <i>Gerontology</i> , 2021 , 67, 660-673 ^{5.5}	5.5	1

15	A Robust Characterization of Inflamm-Aging and Other Immune Processes Through Multivariate Analysis of Cytokines from Longitudinal Studies 2018 , 1-16		1
14	Physiological health indexes predict deterioration and mortality in patients with COVID-19: a comparative study.. <i>Aging</i> , 2022 , 14, 1611-1626	5.6	1
13	From Inflamm-Aging to Immunosenescence 2019 , 53-65		0
12	The evolution of mean arterial pressure in critically ill patients on vasopressors before and during a trial comparing a specific mean arterial pressure target to usual care.. <i>BMC Anesthesiology</i> , 2022 , 22, 6	2.4	0
11	The Danaid Theory of Aging.. <i>Frontiers in Cell and Developmental Biology</i> , 2021 , 9, 671208	5.7	0
10	Synchrony of biomarker variability indicates a critical transition: Application to mortality prediction in hemodialysis. <i>IScience</i> , 2022 , 104385	6.1	0
9	Associations between Exposure to Adverse Childhood Experiences and Biological Aging: Evidence from the Canadian Longitudinal Study on Aging. <i>Psychoneuroendocrinology</i> , 2022 , 105821	5	0
8	The mystery of life beyond menopause. <i>Nature Ecology and Evolution</i> , 2017 , 1, 1604-1605	12.3	
7	Measuring Loss of Homeostasis in Aging. <i>Springer Proceedings in Complexity</i> , 2018 , 326-334	0.3	
6	Immunological Methods and the Concept of Inflammaging in the Study of Human Aging 2018 , 45-58		
5	Specialized cardiological care may be overutilized in urban areas of Quebec. <i>European Journal of Preventive Cardiology</i> , 2012 , 19, 731-7	3.9	
4	Drosophila Models of Aging 2006 , 253-265		
3	A Robust Characterization of Inflamm-aging and Other Immune Processes Through Multivariate Analysis of Cytokines from Longitudinal Studies 2019 , 1665-1680		
2	A holistic approach to predicting diabetes risk via biomarkers. <i>EBioMedicine</i> , 2021 , 71, 103563	8.8	
1	An objective metric of individual health and aging for population surveys.. <i>Population Health Metrics</i> , 2022 , 20, 11	3	