

# Alan A Cohen

## List of Publications by Year in Descending Order

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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	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> , <b>2022</b> , 22, 6	2.4	0
103	Physiological health indexes predict deterioration and mortality in patients with COVID-19: a comparative study.. <i>Aging</i> , <b>2022</b> , 14, 1611-1626	5.6	1
102	An objective metric of individual health and aging for population surveys.. <i>Population Health Metrics</i> , <b>2022</b> , 20, 11	3	
101	Synchrony of biomarker variability indicates a critical transition: Application to mortality prediction in hemodialysis. <i>IScience</i> , <b>2022</b> , 104385	6.1	0
100	Associations between Exposure to Adverse Childhood Experiences and Biological Aging: Evidence from the Canadian Longitudinal Study on Aging. <i>Psychoneuroendocrinology</i> , <b>2022</b> , 105821	5	0
99	The Danaid Theory of Aging.. <i>Frontiers in Cell and Developmental Biology</i> , <b>2021</b> , 9, 671208	5.7	0
98	In search of China's income-health gradient: a biomarker-based analysis. <i>Applied Economics</i> , <b>2021</b> , 53, 5599-5618	1.6	1
97	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> , <b>2021</b> , 76, 187-194	6.4	4
96	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> , <b>2021</b> , 21, 77-84	2.9	1
95	Evidence from two cohorts for the frailty syndrome as an emergent state of parallel dysregulation in multiple physiological systems. <i>Biogerontology</i> , <b>2021</b> , 22, 63-79	4.5	8
94	The physical frailty syndrome as a transition from homeostatic symphony to cacophony. <i>Nature Aging</i> , <b>2021</b> , 1, 36-46		40
93	Robust Physiological Metrics From Sparsely Sampled Networks. <i>Frontiers in Physiology</i> , <b>2021</b> , 12, 624094	4.6	4
92	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> , <b>2021</b> , 67, 660-673	5.5	1
91	Prediction of Mortality in Hemodialysis Patients Using Moving Multivariate Distance. <i>Frontiers in Physiology</i> , <b>2021</b> , 12, 612494	4.6	2
90	A holistic approach to predicting diabetes risk via biomarkers. <i>EBioMedicine</i> , <b>2021</b> , 71, 103563	8.8	
89	Milk composition in a wild mammal: a physiological signature of phenological changes. <i>Oecologia</i> , <b>2020</b> , 193, 349-358	2.9	1
88	Estimation of homeostatic dysregulation and frailty using biomarker variability: a principal component analysis of hemodialysis patients. <i>Scientific Reports</i> , <b>2020</b> , 10, 10314	4.9	8

87	Healthspan pathway maps in and humans highlight transcription, proliferation/biosynthesis and lipids. <i>Aging</i> , <b>2020</b> , 12, 12534-12581	5.6	9
86	Are trade-offs really the key drivers of ageing and life span?. <i>Functional Ecology</i> , <b>2020</b> , 34, 153-166	5.6	23
85	What if there's no such thing as "aging"?. <i>Mechanisms of Ageing and Development</i> , <b>2020</b> , 192, 111344	5.6	10
84	The conundrum of human immune system "senescence". <i>Mechanisms of Ageing and Development</i> , <b>2020</b> , 192, 111357	5.6	25
83	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> , <b>2020</b> , 191, 111316	5.6	26
82	Why we should use topological data analysis in ageing: Towards defining the "topological shape of ageing". <i>Mechanisms of Ageing and Development</i> , <b>2020</b> , 192, 111390	5.6	1
81	Is Aging Biology Ageist?. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , <b>2020</b> , 75, 1653-1655	6.4	7
80	From Inflamm-Aging to Immunosenescence <b>2019</b> , 53-65		0
79	Developments in molecular epidemiology of aging. <i>Emerging Topics in Life Sciences</i> , <b>2019</b> , 3, 411-421	3.5	8
78	An Emergent Integrated Aging Process Conserved Across Primates. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , <b>2019</b> , 74, 1689-1698	6.4	5
77	Causes and short-term consequences of variation in milk composition in wild sheep. <i>Journal of Animal Ecology</i> , <b>2019</b> , 88, 857-869	4.7	5
76	Conservation of physiological dysregulation signatures of aging across primates. <i>Aging Cell</i> , <b>2019</b> , 18, e12925	9.9	16
75	"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> , <b>2019</b> , 74, 462-468	6.4	27
74	Immunological Theory of Aging <b>2019</b> , 1-10		1
73	Are There Reliable Biomarkers for Immunosenescence and Inflammaging?. <i>Healthy Ageing and Longevity</i> , <b>2019</b> , 231-251	0.5	1
72	A Robust Characterization of Inflamm-aging and Other Immune Processes Through Multivariate Analysis of Cytokines from Longitudinal Studies <b>2019</b> , 1665-1680		
71	Are We Ill Because We Age?. <i>Frontiers in Physiology</i> , <b>2019</b> , 10, 1508	4.6	24
70	Health and Aging: Unifying Concepts, Scores, Biomarkers and Pathways <b>2019</b> , 10, 883-900		34

69	Recognition of the polycistronic nature of human genes is critical to understanding the genotype-phenotype relationship. <i>Genome Research</i> , <b>2018</b> , 28, 609-624	9.7	34
68	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> , <b>2018</b> , 1864, 2680-2689	6.9	52
67	The risks of biomarker-based epidemiology: Associations of circulating calcium levels with age, mortality, and frailty vary substantially across populations. <i>Experimental Gerontology</i> , <b>2018</b> , 107, 11-17	4.5	19
66	Men Sustain Higher Dysregulation Levels Than Women Without Becoming Frail. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , <b>2018</b> , 73, 175-184	6.4	10
65	Measuring Loss of Homeostasis in Aging. <i>Springer Proceedings in Complexity</i> , <b>2018</b> , 326-334	0.3	
64	Immunological Methods and the Concept of Inflammaging in the Study of Human Aging <b>2018</b> , 45-58		
63	Eleven Telomere, Epigenetic Clock, and Biomarker-Composite Quantifications of Biological Aging: Do They Measure the Same Thing?. <i>American Journal of Epidemiology</i> , <b>2018</b> , 187, 1220-1230	3.8	137
62	Physiological predictors of reproductive performance in the European Starling (). <i>Frontiers in Zoology</i> , <b>2018</b> , 15, 45	2.8	6
61	A Robust Characterization of Inflamm-Aging and Other Immune Processes Through Multivariate Analysis of Cytokines from Longitudinal Studies <b>2018</b> , 1-16		1
60	The mystery of life beyond menopause. <i>Nature Ecology and Evolution</i> , <b>2017</b> , 1, 1604-1605	12.3	
59	Deep transcriptome annotation enables the discovery and functional characterization of cryptic small proteins. <i>ELife</i> , <b>2017</b> , 6,	8.9	57
58	Co-existence of multiple trade-off currencies shapes evolutionary outcomes. <i>PLoS ONE</i> , <b>2017</b> , 12, e0189174	12.4	19
57	Amorcer un traitement antipsychotique en schizophr�nie : la situation au Qu�bec de 1998 �2006. <i>Sante Mentale Au Quebec</i> , <b>2017</b> , 42, 85-103	0.2	1
56	Immunosenescence and Inflamm-Aging As Two Sides of the Same Coin: Friends or Foes?. <i>Frontiers in Immunology</i> , <b>2017</b> , 8, 1960	8.4	502
55	Author response: Deep transcriptome annotation enables the discovery and functional characterization of cryptic small proteins <b>2017</b> ,		3
54	Mother's curse neutralizes natural selection against a human genetic disease over three centuries. <i>Nature Ecology and Evolution</i> , <b>2017</b> , 1, 1400-1406	12.3	35
53	Comparative effectiveness and safety of antipsychotic drugs in schizophrenia treatment: a real-world observational study. <i>Acta Psychiatrica Scandinavica</i> , <b>2016</b> , 134, 374-384	6.5	43
52	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> , <b>2016</b> , 15, 49	6	27

51	Complex systems dynamics in aging: new evidence, continuing questions. <i>Biogerontology</i> , <b>2016</b> , 17, 205-209	4.0	72
50	Deep biomarkers of aging are population-dependent. <i>Aging</i> , <b>2016</b> , 8, 2253-2255	5.6	13
49	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> , <b>2016</b> , 13, 168	4.6	11
48	Optimal Versus Realized Trajectories of Physiological Dysregulation in Aging and Their Relation to Sex-Specific Mortality Risk. <i>Frontiers in Public Health</i> , <b>2016</b> , 4, 3	6	28
47	A theoretical model of the evolution of actuarial senescence under environmental stress. <i>Experimental Gerontology</i> , <b>2015</b> , 71, 80-8	4.5	6
46	Frailty, Inflammation and Immunosenesence. <i>Interdisciplinary Topics in Gerontology and Geriatrics</i> , <b>2015</b> , 41, 26-40	3	57
45	Homeostatic dysregulation proceeds in parallel in multiple physiological systems. <i>Aging Cell</i> , <b>2015</b> , 14, 1103-12	9.9	85
44	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> , <b>2015</b> , 105, 1718-25	5.1	46
43	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> , <b>2015</b> , 34, 936-49	2.3	23
42	Physiological and Comparative Evidence Fails to Confirm an Adaptive Role for Aging in Evolution. <i>Current Aging Science</i> , <b>2015</b> , 8, 14-23	2.2	7
41	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> , <b>2015</b> , 15, 146	2.9	6
40	Detection of a novel, integrative aging process suggests complex physiological integration. <i>PLoS ONE</i> , <b>2015</b> , 10, e0116489	3.7	52
39	Statistical distance as a measure of physiological dysregulation is largely robust to variation in its biomarker composition. <i>PLoS ONE</i> , <b>2015</b> , 10, e0122541	3.7	39
38	Physiological and comparative evidence fails to confirm an adaptive role for aging in evolution. <i>Current Aging Science</i> , <b>2015</b> , 8, 14-23	2.2	2
37	A novel integrative method for measuring body condition in ecological studies based on physiological dysregulation. <i>Methods in Ecology and Evolution</i> , <b>2014</b> , 5, 146-155	7.7	32
36	Trajectories of physiological dysregulation predicts mortality and health outcomes in a consistent manner across three populations. <i>Mechanisms of Ageing and Development</i> , <b>2014</b> , 141-142, 56-63	5.6	45
35	Cross-population validation of statistical distance as a measure of physiological dysregulation during aging. <i>Experimental Gerontology</i> , <b>2014</b> , 57, 203-10	4.5	39
34	Beta-blockers are associated with increased risk of first cardiovascular events in non-diabetic hypertensive elderly patients. <i>Pharmacoepidemiology and Drug Safety</i> , <b>2014</b> , 23, 1139-46	2.6	3

33	Stress responsive biochemical anabolic/catabolic ratio and telomere length in older adults. <i>Biodemography and Social Biology</i> , <b>2014</b> , 60, 174-84	1.1	10
32	Inflamm-aging does not simply reflect increases in pro-inflammatory markers. <i>Mechanisms of Ageing and Development</i> , <b>2014</b> , 139, 49-57	5.6	158
31	Validating metabolic syndrome through principal component analysis in a medically diverse, realistic cohort. <i>Metabolic Syndrome and Related Disorders</i> , <b>2013</b> , 11, 21-8	2.6	6
30	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> , <b>2013</b> , 20, 66-74	4.6	20
29	A novel statistical approach shows evidence for multi-system physiological dysregulation during aging. <i>Mechanisms of Ageing and Development</i> , <b>2013</b> , 134, 110-7	5.6	90
28	Ecological immunology in a fluctuating environment: an integrative analysis of tree swallow nestling immune defense. <i>Ecology and Evolution</i> , <b>2013</b> , 3, 1091-103	2.8	28
27	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> , <b>2012</b> , 28, 744-9	3.8	9
26	Physiological regulatory networks: ecological roles and evolutionary constraints. <i>Trends in Ecology and Evolution</i> , <b>2012</b> , 27, 428-35	10.9	137
25	Specialized cardiological care may be overutilized in urban areas of Quebec. <i>European Journal of Preventive Cardiology</i> , <b>2012</b> , 19, 731-7	3.9	
24	What does carotenoid-dependent coloration tell? Plasma carotenoid level signals immunocompetence and oxidative stress state in birds-A meta-analysis. <i>PLoS ONE</i> , <b>2012</b> , 7, e43088	3.7	118
23	Circulating carotenoid concentrations are positively correlated with later clutch initiation in Florida Scrub-Jays ( <i>Aphelocoma coerulescens</i> ). <i>Journal of Experimental Zoology</i> , <b>2011</b> , 315A, 101-10		1
22	How to measure oxidative stress in an ecological context: methodological and statistical issues. <i>Functional Ecology</i> , <b>2010</b> , 24, 960-970	5.6	74
21	Ecological, biomedical and epidemiological approaches to understanding oxidative balance and ageing: what they can teach each other. <i>Functional Ecology</i> , <b>2010</b> , 24, 997-1006	5.6	12
20	The ecological significance of antioxidants and oxidative stress: a marriage between mechanistic and functional perspectives. <i>Functional Ecology</i> , <b>2010</b> , 24, 947-949	5.6	55
19	Adult and child malaria mortality in India: a nationally representative mortality survey. <i>Lancet, The</i> , <b>2010</b> , 376, 1768-74	4.0	197
18	The Summary Index of Malaria Surveillance (SIMS): a stable index of malaria within India. <i>Population Health Metrics</i> , <b>2010</b> , 8, 1	3	30
17	No consistent effects of prenatal or neonatal exposure to Spanish flu on late-life mortality in 24 developed countries. <i>Demographic Research</i> , <b>2010</b> , 22, 579-634	1	19
16	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> , <b>2010</b> , 10, 1548	1.3	26

15	Serum antioxidant levels in wild birds vary in relation to diet, season, life history strategy, and species. <i>Oecologia</i> , <b>2009</b> , 161, 673-83	2.9	78
14	No simple measures for antioxidant status in birds: complexity in inter- and intraspecific correlations among circulating antioxidant types. <i>Functional Ecology</i> , <b>2009</b> , 23, 310-320	5.6	82
13	Complexity in relationships between antioxidants and individual life-history parameters in a seabird and a songbird. <i>Oikos</i> , <b>2009</b> , 118, 1854-1861	4	11
12	Stress, metabolism, and antioxidants in two wild passerine bird species. <i>Physiological and Biochemical Zoology</i> , <b>2008</b> , 81, 463-72	2	47
11	Interspecific associations between circulating antioxidant levels and life-history variation in birds. <i>American Naturalist</i> , <b>2008</b> , 172, 178-93	3.7	95
10	Measuring circulating antioxidants in wild birds. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , <b>2007</b> , 147, 110-21	2.3	133
9	<i>Drosophila</i> Models of Aging <b>2006</b> , 253-265		
8	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> , <b>2006</b> , 273, 815-22	4.4	134
7	Female post-reproductive lifespan: a general mammalian trait. <i>Biological Reviews</i> , <b>2004</b> , 79, 733-50	13.5	120
6	Age-related patterns of fertility in captive populations of birds and mammals. <i>Experimental Gerontology</i> , <b>2003</b> , 38, 741-5	4.5	30
5	Taxonomic Diversity, Complexity and the Evolution of Senescence 83-102		4
4	Telomere, epigenetic clock, and biomarker-composite quantifications of biological aging: Do they measure the same thing?		4
3	The frailty syndrome as an emergent state of parallel dysregulation in multiple physiological systems		1
2	Physiological System Dysregulation in Gene Expression Correlates Negatively with Age		1
1	Newfound coding potential of transcripts unveils missing members of human protein communities		1