

# Arnold Mitnitski

## List of Publications by Year in descending order

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Version: 2024-02-01

98  
papers

19,817  
citations

44069

48  
h-index

42399

92  
g-index

101  
all docs

101  
docs citations

101  
times ranked

15551  
citing authors

#	ARTICLE	IF	CITATIONS
1	A global clinical measure of fitness and frailty in elderly people. <i>Cmaj</i> , 2005, 173, 489-495.	2.0	5,720
2	A standard procedure for creating a frailty index. <i>BMC Geriatrics</i> , 2008, 8, 24.	2.7	2,202
3	Frailty in Relation to the Accumulation of Deficits. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2007, 62, 722-727.	3.6	1,959
4	A Comparison of Two Approaches to Measuring Frailty in Elderly People. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2007, 62, 738-743.	3.6	970
5	Prevalence and 10-Year Outcomes of Frailty in Older Adults in Relation to Deficit Accumulation. <i>Journal of the American Geriatrics Society</i> , 2010, 58, 681-687.	2.6	783
6	Frailty Defined by Deficit Accumulation and Geriatric Medicine Defined by Frailty. <i>Clinics in Geriatric Medicine</i> , 2011, 27, 17-26.	2.6	768
7	Operationalization of Frailty Using Eight Commonly Used Scales and Comparison of Their Ability to Predict All-Cause Mortality. <i>Journal of the American Geriatrics Society</i> , 2013, 61, 1537-1551.	2.6	493
8	Relative Fitness and Frailty of Elderly Men and Women in Developed Countries and Their Relationship with Mortality. <i>Journal of the American Geriatrics Society</i> , 2005, 53, 2184-2189.	2.6	486
9	Changes in relative fitness and frailty across the adult lifespan: evidence from the Canadian National Population Health Survey. <i>Cmaj</i> , 2011, 183, E487-E494.	2.0	423
10	Long-Term Risks of Death and Institutionalization of Elderly People in Relation to Deficit Accumulation at Age 70. <i>Journal of the American Geriatrics Society</i> , 2006, 54, 975-979.	2.6	394
11	No evidence that frailty modifies the positive impact of antihypertensive treatment in very elderly people: an investigation of the impact of frailty upon treatment effect in the HYpertension in the Very Elderly Trial (HYVET) study, a double-blind, placebo-controlled study of antihypertensives in people with hypertension aged 80 and over. <i>BMC Medicine</i> , 2015, 13, 78.	5.5	244
12	Age-related frailty and its association with biological markers of ageing. <i>BMC Medicine</i> , 2015, 13, 161.	5.5	233
13	How should we grade frailty in nursing home patients?. <i>Journal of the American Medical Directors Association</i> , 2007, 8, 595-603.	2.5	220
14	Evaluation of a frailty index based on a comprehensive geriatric assessment in a population based study of elderly Canadians. <i>Aging Clinical and Experimental Research</i> , 2005, 17, 465-471.	2.9	217
15	Limits to deficit accumulation in elderly people. <i>Mechanisms of Ageing and Development</i> , 2006, 127, 494-496.	4.6	196
16	Standard laboratory tests to identify older adults at increased risk of death. <i>BMC Medicine</i> , 2014, 12, 171.	5.5	193
17	Nontraditional risk factors combine to predict Alzheimer disease and dementia. <i>Neurology</i> , 2011, 77, 227-234.	1.1	185
18	Frailty status at admission to hospital predicts multiple adverse outcomes. <i>Age and Ageing</i> , 2017, 46, 801-806.	1.6	185

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19	Disability and co-morbidity in relation to frailty: How much do they overlap?. Archives of Gerontology and Geriatrics, 2012, 55, e1-e8.	3.0	170
20	Assessing biological aging: the origin of deficit accumulation. Biogerontology, 2013, 14, 709-717.	3.9	165
21	Identifying Common Characteristics of Frailty Across Seven Scales. Journal of the American Geriatrics Society, 2014, 62, 901-906.	2.6	153
22	Changes with age in the distribution of a frailty index. Mechanisms of Ageing and Development, 2004, 125, 517-519.	4.6	135
23	Physiological Redundancy in Older Adults in Relation to the Change with Age in the Slope of a Frailty Index. Journal of the American Geriatrics Society, 2010, 58, 318-323.	2.6	131
24	Exploring the relationship between national economic indicators and relative fitness and frailty in middle-aged and older Europeans. Age and Ageing, 2013, 42, 614-619.	1.6	121
25	The rate of aging: the rate of deficit accumulation does not change over the adult life span. Biogerontology, 2016, 17, 199-204.	3.9	112
26	Going from bad to worse: A stochastic model of transitions in deficit accumulation, in relation to mortality. Mechanisms of Ageing and Development, 2006, 127, 490-493.	4.6	104
27	Changes in Cognition and Mortality in Relation to Exercise in Late Life: A Population Based Study. PLoS ONE, 2008, 3, e3124.	2.5	103
28	Derivation of a frailty index from the interRAI acute care instrument. BMC Geriatrics, 2015, 15, 27.	2.7	99
29	Heterogeneity of Human Aging and Its Assessment. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2017, 72, glw089.	3.6	97
30	Transitions in Frailty Status in Older Adults in Relation to Mobility: A Multistate Modeling Approach Employing a Deficit Count. Journal of the American Geriatrics Society, 2011, 59, 524-529.	2.6	95
31	Age-related deficit accumulation and the risk of late-life dementia. Alzheimer's Research and Therapy, 2014, 6, 54.	6.2	94
32	What are frailty instruments for?. Age and Ageing, 2015, 44, 545-547.	1.6	90
33	A Scoping Review of Frailty and Acute Care in Middle-Aged and Older Individuals with Recommendations for Future Research. Canadian Geriatrics Journal, 2017, 20, 22-37.	1.2	85
34	Development of a frailty index for older people with intellectual disabilities: Results from the HA-ID study. Research in Developmental Disabilities, 2013, 34, 1541-1555.	2.2	84
35	A Frailty Index Based on Common Laboratory Tests in Comparison With a Clinical Frailty Index for Older Adults in Long-Term Care Facilities. Journal of the American Medical Directors Association, 2015, 16, 842-847.	2.5	84
36	A limit to frailty in very old, community-dwelling people: a secondary analysis of the Chinese longitudinal health and longevity study. Age and Ageing, 2013, 42, 372-377.	1.6	83

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37	Mortality in Relation to Frailty in Patients Admitted to a Specialized Geriatric Intensive Care Unit. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2015, 70, 1586-1594.	3.6	83
38	Aging as a Process of Deficit Accumulation: Its Utility and Origin. <i>Interdisciplinary Topics in Gerontology</i> , 2015, 40, 85-98.	3.6	81
39	The impact of social vulnerability on the survival of the fittest older adults. <i>Age and Ageing</i> , 2012, 41, 161-165.	1.6	78
40	Comparison of alternate scoring of variables on the performance of the frailty index. <i>BMC Geriatrics</i> , 2014, 14, 25.	2.7	78
41	Impact of Exercise in Community-Dwelling Older Adults. <i>PLoS ONE</i> , 2009, 4, e6174.	2.5	75
42	Assessment of Individual Risk of Death Using Self-Report Data: An Artificial Neural Network Compared with a Frailty Index. <i>Journal of the American Geriatrics Society</i> , 2004, 52, 1180-1184.	2.6	74
43	Frailty and survival of older Chinese adults in urban and rural areas: Results from the Beijing Longitudinal Study of Aging. <i>Archives of Gerontology and Geriatrics</i> , 2012, 54, 3-8.	3.0	73
44	Social vulnerability and survival across levels of frailty in the Honolulu-Asia Aging Study. <i>Age and Ageing</i> , 2015, 44, 709-712.	1.6	67
45	Improvement and decline in health status from late middle age: Modeling age-related changes in deficit accumulation. <i>Experimental Gerontology</i> , 2007, 42, 1109-1115.	2.8	60
46	Analysis of frailty and survival from late middle age in the Beijing Longitudinal Study of Aging. <i>BMC Geriatrics</i> , 2011, 11, 17.	2.7	60
47	Assessing Balance and Mobility to Track Illness and Recovery in Older Inpatients. <i>Journal of General Internal Medicine</i> , 2011, 26, 1471-1478.	2.6	58
48	Reliability of the Hierarchical Assessment of Balance and Mobility in Frail Older Adults. <i>Journal of the American Geriatrics Society</i> , 2008, 56, 1213-1217.	2.6	56
49	Frailty in the Honolulu-Asia Aging Study: Deficit Accumulation in a Male Cohort Followed to 90% Mortality. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2015, 70, 125-131.	3.6	51
50	Frailty and life satisfaction in Shanghai older adults: The roles of age and social vulnerability. <i>Archives of Gerontology and Geriatrics</i> , 2016, 67, 68-73.	3.0	46
51	Sex Differences in the Limit to Deficit Accumulation in Late Middle-Aged and Older Chinese People: Results From the Beijing Longitudinal Study of Aging. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2014, 69, 702-709.	3.6	45
52	Changes in Frailty Predict Changes in Cognition in Older Men: The Honolulu-Asia Aging Study. <i>Journal of Alzheimer's Disease</i> , 2016, 53, 1003-1013.	2.6	44
53	Gender Differences in the Relationship Between Smoking and Frailty: Results From the Beijing Longitudinal Study of Aging. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2013, 68, 338-346.	3.6	43
54	Co-occurrence of cardiometabolic diseases and frailty in older Chinese adults in the Beijing Longitudinal Study of Ageing. <i>Age and Ageing</i> , 2013, 42, 346-351.	1.6	41

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55	A cross-national study of transitions in deficit counts in two birth cohorts: Implications for modeling ageing. <i>Experimental Gerontology</i> , 2007, 42, 241-246.	2.8	40
56	The validation of a care partner-derived frailty index based upon comprehensive geriatric assessment (CP-FI-CGA) in emergency medical services and geriatric ambulatory care. <i>Age and Ageing</i> , 2015, 44, 327-330.	1.6	40
57	Failure to complete performance-based measures is associated with poor health status and an increased risk of death. <i>Age and Ageing</i> , 2007, 36, 225-228.	1.6	39
58	Frailty affects the initial treatment response and time to recovery of mobility in acutely ill older adults admitted to hospital. <i>Age and Ageing</i> , 2017, 46, 920-925.	1.6	39
59	Is frailty a stable predictor of mortality across time? Evidence from the Cognitive Function and Ageing Studies. <i>Age and Ageing</i> , 2018, 47, 721-727.	1.6	39
60	Cumulative impact of health deficits, social vulnerabilities, and protective factors on cognitive dynamics in late life: a multistate modeling approach. <i>Alzheimer's Research and Therapy</i> , 2015, 7, 38.	6.2	38
61	Socioeconomic gradient in health in Canada: Is the gap widening or narrowing?. <i>Health Policy</i> , 2016, 120, 1040-1050.	3.0	38
62	A Multistate Model of Cognitive Dynamics in Relation to Frailty in Older Adults. <i>Annals of Epidemiology</i> , 2011, 21, 507-516.	1.9	37
63	Effect of Health Protective Factors on Health Deficit Accumulation and Mortality Risk in Older Adults in the Beijing Longitudinal Study of Aging. <i>Journal of the American Geriatrics Society</i> , 2014, 62, 821-828.	2.6	34
64	Apolipoprotein E $\epsilon$ polymorphism, frailty and mortality in older adults. <i>Journal of Cellular and Molecular Medicine</i> , 2008, 12, 2754-2761.	3.6	33
65	Predicting disabilities in daily functioning in older people with intellectual disabilities using a frailty index. <i>Research in Developmental Disabilities</i> , 2014, 35, 2267-2277.	2.2	33
66	A comparison of the relationship of 14 performance-based measures with frailty in older women. <i>Applied Physiology, Nutrition and Metabolism</i> , 2011, 36, 928-938.	1.9	32
67	Predicting 3-Year Survival in Older People with Intellectual Disabilities Using a Frailty Index. <i>Journal of the American Geriatrics Society</i> , 2015, 63, 531-536.	2.6	32
68	Frailty among middle-aged and older Canadians: population norms for the frailty index using the Canadian Longitudinal Study on Aging. <i>Age and Ageing</i> , 2021, 50, 447-456.	1.6	29
69	An assessment of neurocognitive speed in relation to frailty. <i>Age and Ageing</i> , 2013, 42, 191-196.	1.6	26
70	Modeling the Impact of Sex on How Exercise Is Associated with Cognitive Changes and Death in Older Canadians. <i>Neuroepidemiology</i> , 2009, 33, 47-54.	2.3	24
71	Precipitating and Predisposing Events and Symptoms For Admission to Assisted Living or Nursing Home Care. <i>Canadian Geriatrics Journal</i> , 2014, 17, 16-21.	1.2	24
72	Associations between a laboratory frailty index and adverse health outcomes across age and sex. <i>Aging Medicine (Milton (N S W))</i> , 2019, 2, 11-17.	2.1	23

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73	Transitions in cognitive test scores over 5 and 10 years in elderly people: Evidence for a model of age-related deficit accumulation. <i>BMC Geriatrics</i> , 2008, 8, 3.	2.7	21
74	Decrease in the relative heterogeneity of health with age: A cross-national comparison. <i>Mechanisms of Ageing and Development</i> , 2006, 127, 70-72.	4.6	20
75	Clinical meaningfulness of Alzheimer's Disease Assessment Scale's Cognitive subscale change in relation to goal attainment in patients on cholinesterase inhibitors. <i>Alzheimer's and Dementia</i> , 2017, 13, 1098-1106.	0.8	20
76	Frailty: Scaling from Cellular Deficit Accumulation?. <i>Interdisciplinary Topics in Gerontology and Geriatrics</i> , 2015, 41, 1-14.	2.6	18
77	Frailty, fitness, and the mathematics of deficit accumulation. <i>Reviews in Clinical Gerontology</i> , 2007, 17, 1-12.	0.5	17
78	Changes in the Lethality of Frailty Over 30 Years: Evidence From Two Cohorts of 70-Year-Olds in Gothenburg Sweden. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2017, 72, glw160.	3.6	17
79	Characteristics of the least frail adults with intellectual disabilities: A positive biology perspective. <i>Research in Developmental Disabilities</i> , 2014, 35, 127-136.	2.2	16
80	Biological Age Revisited. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2014, 69A, 295-296.	3.6	15
81	Changes in Cognition During the Course of Eight Years in Elderly Japanese Americans: A Multistate Transition Model. <i>Annals of Epidemiology</i> , 2010, 20, 480-486.	1.9	13
82	The potential for complex computational models of aging. <i>Mechanisms of Ageing and Development</i> , 2021, 193, 111403.	4.6	11
83	Interpretable machine learning for high-dimensional trajectories of aging health. <i>PLoS Computational Biology</i> , 2022, 18, e1009746.	3.2	10
84	Generating synthetic aging trajectories with a weighted network model using cross-sectional data. <i>Scientific Reports</i> , 2020, 10, 19833.	3.3	9
85	Informative frailty indices from binarized biomarkers. <i>Biogerontology</i> , 2020, 21, 345-355.	3.9	9
86	The Problem of Integrating of Biological and Clinical Markers of Aging. <i>Healthy Ageing and Longevity</i> , 2019, , 399-415.	0.2	8
87	GERIATRIC SYNDROMES. <i>Journal of the American Geriatrics Society</i> , 2007, 55, 2092-2092.	2.6	7
88	Applying neural network Poisson regression to predict cognitive score changes. <i>Journal of Applied Statistics</i> , 2011, 38, 2051-2062.	1.3	5
89	A quantile frailty index without dichotomization. <i>Mechanisms of Ageing and Development</i> , 2021, 199, 111570.	4.6	3
90	The Benefits of a Frailty Index for People With Intellectual Disability: A Commentary. <i>Journal of Policy and Practice in Intellectual Disabilities</i> , 2015, 12, 232-234.	2.7	2

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91	Advancing our understanding of aging using mathematical modeling of longitudinal data. <i>Physics of Life Reviews</i> , 2012, 9, 193-194.	2.8	1
92	Heterogeneity of Human Aging and Its Assessment. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 0, , glw089.	3.6	1
93	A Clinico-Mathematical Model of Aging. , 2010, , 59-65.		1
94	Help Available--Phenomenological Models for Research on Aging. <i>Science of Aging Knowledge Environment: SAGE KE</i> , 2003, 2003, 2vp-2.	0.8	1
95	Response to Letter by Toni et al. <i>Stroke</i> , 2008, 39, .	2.0	0
96	UNDERSTANDING AGING AND FRAILTY WITH A PREDICTIVE NETWORK MODEL. <i>Innovation in Aging</i> , 2019, 3, S684-S684.	0.1	0
97	THE PROBLEM OF INTEGRATING OF BIOLOGICAL AND CLINICAL MARKERS OF AGEING. <i>Innovation in Aging</i> , 2019, 3, S84-S84.	0.1	0
98	A GENERIC METHODOLOGY FOR EFFECTIVE CREATION OF LABORATORY-TEST-BASED FRAILTY INDICES. <i>Innovation in Aging</i> , 2019, 3, S94-S95.	0.1	0