

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	Interpretable machine learning for high-dimensional trajectories of aging health. PLoS Computational Biology, 2022, 18, e1009746.	3.2	10
2	The potential for complex computational models of aging. Mechanisms of Ageing and Development, 2021, 193, 111403.	4.6	11
3	Frailty among middle-aged and older Canadians: population norms for the frailty index using the Canadian Longitudinal Study on Aging. Age and Ageing, 2021, 50, 447-456.	1.6	29
4	A quantile frailty index without dichotomization. Mechanisms of Ageing and Development, 2021, 199, 111570.	4.6	3
5	Generating synthetic aging trajectories with a weighted network model using cross-sectional data. Scientific Reports, 2020, 10, 19833.	3.3	9
6	Informative frailty indices from binarized biomarkers. Biogerontology, 2020, 21, 345-355.	3.9	9
7	Associations between a laboratory frailty index and adverse health outcomes across age and sex. Aging Medicine (Milton (N S W)), 2019, 2, 11-17.	2.1	23
8	UNDERSTANDING AGING AND FRAILTY WITH A PREDICTIVE NETWORK MODEL. Innovation in Aging, 2019, 3, S684-S684.	0.1	0
9	THE PROBLEM OF INTEGRATING OF BIOLOGICAL AND CLINICAL MARKERS OF AGEING. Innovation in Aging, 2019, 3, S84-S84.	0.1	0
10	A GENERIC METHODOLOGY FOR EFFECTIVE CREATION OF LABORATORY-TEST-BASED FRAILTY INDICES. Innovation in Aging, 2019, 3, S94-S95.	0.1	0
11	The Problem of Integrating of Biological and Clinical Markers of Aging. Healthy Ageing and Longevity, 2019, , 399-415.	0.2	8
12	Is frailty a stable predictor of mortality across time? Evidence from the Cognitive Function and Ageing Studies. Age and Ageing, 2018, 47, 721-727.	1.6	39
13	Changes in the Lethality of Frailty Over 30 Years: Evidence From Two Cohorts of 70-Year-Olds in Gothenburg Sweden. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2017, 72, glw160.	3.6	17
14	Heterogeneity of Human Aging and Its Assessment. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2017, 72, glw089.	3.6	97
15	Frailty affects the initial treatment response and time to recovery of mobility in acutely ill older adults admitted to hospital. Age and Ageing, 2017, 46, 920-925.	1.6	39
16	Frailty status at admission to hospital predicts multiple adverse outcomes. Age and Ageing, 2017, 46, 801-806.	1.6	185
17	Clinical meaningfulness of Alzheimer's Disease Assessment Scale's Cognitive subscale change in relation to goal attainment in patients on cholinesterase inhibitors. Alzheimer's and Dementia, 2017, 13, 1098-1106.	0.8	20
18	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

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19	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
20	Socioeconomic gradient in health in Canada: Is the gap widening or narrowing?. <i>Health Policy</i> , 2016, 120, 1040-1050.	3.0	38
21	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
22	The rate of aging: the rate of deficit accumulation does not change over the adult life span. <i>Biogerontology</i> , 2016, 17, 199-204.	3.9	112
23	Aging as a Process of Deficit Accumulation: Its Utility and Origin. <i>Interdisciplinary Topics in Gerontology</i> , 2015, 40, 85-98.	3.6	81
24	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
25	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
26	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
27	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
28	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
29	Derivation of a frailty index from the interRAI acute care instrument. <i>BMC Geriatrics</i> , 2015, 15, 27.	2.7	99
30	A Frailty Index Based on Common Laboratory Tests in Comparison With a Clinical Frailty Index for Older Adults in Long-Term Care Facilities. <i>Journal of the American Medical Directors Association</i> , 2015, 16, 842-847.	2.5	84
31	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
32	What are frailty instruments for?. <i>Age and Ageing</i> , 2015, 44, 545-547.	1.6	90
33	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
34	Age-related frailty and its association with biological markers of ageing. <i>BMC Medicine</i> , 2015, 13, 161.	5.5	233
35	Frailty: Scaling from Cellular Deficit Accumulation?. <i>Interdisciplinary Topics in Gerontology and Geriatrics</i> , 2015, 41, 1-14.	2.6	18
36	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

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37	Biological Age Revisited. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2014, 69A, 295-296.	3.6	15
38	Age-related deficit accumulation and the risk of late-life dementia. Alzheimer's Research and Therapy, 2014, 6, 54.	6.2	94
39	Sex Differences in the Limit to Deficit Accumulation in Late Middle-Aged and Older Chinese People: Results From the Beijing Longitudinal Study of Aging. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2014, 69, 702-709.	3.6	45
40	Standard laboratory tests to identify older adults at increased risk of death. BMC Medicine, 2014, 12, 171.	5.5	193
41	Identifying Common Characteristics of Frailty Across Seven Scales. Journal of the American Geriatrics Society, 2014, 62, 901-906.	2.6	153
42	Effect of Health Protective Factors on Health Deficit Accumulation and Mortality Risk in Older Adults in the Beijing Longitudinal Study of Aging. Journal of the American Geriatrics Society, 2014, 62, 821-828.	2.6	34
43	Comparison of alternate scoring of variables on the performance of the frailty index. BMC Geriatrics, 2014, 14, 25.	2.7	78
44	Predicting disabilities in daily functioning in older people with intellectual disabilities using a frailty index. Research in Developmental Disabilities, 2014, 35, 2267-2277.	2.2	33
45	Characteristics of the least frail adults with intellectual disabilities: A positive biology perspective. Research in Developmental Disabilities, 2014, 35, 127-136.	2.2	16
46	Precipitating and Predisposing Events and Symptoms For Admission to Assisted Living or Nursing Home Care. Canadian Geriatrics Journal, 2014, 17, 16-21.	1.2	24
47	Assessing biological aging: the origin of deficit accumulation. Biogerontology, 2013, 14, 709-717.	3.9	165
48	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
49	Operationalization of Frailty Using Eight Commonly Used Scales and Comparison of Their Ability to Predict All-Cause Mortality. Journal of the American Geriatrics Society, 2013, 61, 1537-1551.	2.6	493
50	An assessment of neurocognitive speed in relation to frailty. Age and Ageing, 2013, 42, 191-196.	1.6	26
51	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
52	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
53	Co-occurrence of cardiometabolic diseases and frailty in older Chinese adults in the Beijing Longitudinal Study of Ageing. Age and Ageing, 2013, 42, 346-351.	1.6	41
54	Gender Differences in the Relationship Between Smoking and Frailty: Results From the Beijing Longitudinal Study of Aging. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2013, 68, 338-346.	3.6	43

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55	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
56	Advancing our understanding of aging using mathematical modeling of longitudinal data. <i>Physics of Life Reviews</i> , 2012, 9, 193-194.	2.8	1
57	Disability and co-morbidity in relation to frailty: How much do they overlap?. <i>Archives of Gerontology and Geriatrics</i> , 2012, 55, e1-e8.	3.0	170
58	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
59	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
60	Applying neural network Poisson regression to predict cognitive score changes. <i>Journal of Applied Statistics</i> , 2011, 38, 2051-2062.	1.3	5
61	Frailty Defined by Deficit Accumulation and Geriatric Medicine Defined by Frailty. <i>Clinics in Geriatric Medicine</i> , 2011, 27, 17-26.	2.6	768
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	Transitions in Frailty Status in Older Adults in Relation to Mobility: A Multistate Modeling Approach Employing a Deficit Count. <i>Journal of the American Geriatrics Society</i> , 2011, 59, 524-529.	2.6	95
64	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
65	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
66	Nontraditional risk factors combine to predict Alzheimer disease and dementia. <i>Neurology</i> , 2011, 77, 227-234.	1.1	185
67	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
68	Physiological Redundancy in Older Adults in Relation to the Change with Age in the Slope of a Frailty Index. <i>Journal of the American Geriatrics Society</i> , 2010, 58, 318-323.	2.6	131
69	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
70	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
71	A Clinico-Mathematical Model of Aging. , 2010, , 59-65.		1
72	Impact of Exercise in Community-Dwelling Older Adults. <i>PLoS ONE</i> , 2009, 4, e6174.	2.5	75

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73	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
74	A standard procedure for creating a frailty index. <i>BMC Geriatrics</i> , 2008, 8, 24.	2.7	2,202
75	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
76	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
77	Apolipoprotein E polymorphism, frailty and mortality in older adults. <i>Journal of Cellular and Molecular Medicine</i> , 2008, 12, 2754-2761.	3.6	33
78	Response to Letter by Toni et al. <i>Stroke</i> , 2008, 39, .	2.0	0
79	Changes in Cognition and Mortality in Relation to Exercise in Late Life: A Population Based Study. <i>PLoS ONE</i> , 2008, 3, e3124.	2.5	103
80	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
81	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
82	Frailty, fitness, and the mathematics of deficit accumulation. <i>Reviews in Clinical Gerontology</i> , 2007, 17, 1-12.	0.5	17
83	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
84	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
85	GERIATRIC SYNDROMES. <i>Journal of the American Geriatrics Society</i> , 2007, 55, 2092-2092.	2.6	7
86	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
87	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
88	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
89	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
90	Limits to deficit accumulation in elderly people. <i>Mechanisms of Ageing and Development</i> , 2006, 127, 494-496.	4.6	196

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91	Going from bad to worse: A stochastic model of transitions in deficit accumulation, in relation to mortality. <i>Mechanisms of Ageing and Development</i> , 2006, 127, 490-493.	4.6	104
92	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
93	A global clinical measure of fitness and frailty in elderly people. <i>Cmaj</i> , 2005, 173, 489-495.	2.0	5,720
94	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
95	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
96	Changes with age in the distribution of a frailty index. <i>Mechanisms of Ageing and Development</i> , 2004, 125, 517-519.	4.6	135
97	Help Available—Phenomenological Models for Research on Aging. <i>Science of Aging Knowledge Environment: SAGE KE</i> , 2003, 2003, 2vp-2.	0.8	1
98	Heterogeneity of Human Aging and Its Assessment. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 0, , glw089.	3.6	1