Arnold Miitnitski

List of Articles by Year in descending order

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119 peer-reviewed articles	22,204 peer-reviewed citations	38422 51 peer-reviewed h-index	118852 5.98 score
130 documents	25434 doc citations	43670 53 h-index	33254 citing authors

#	Article	IF	Citations
1	New Frailty Index Approach Predicts COVID-19 Mortality Risk. Advances in Gerontology, 2024, 13, 26-35.	0.2	2
2	Interpretable machine learning for high-dimensional trajectories of aging health. PLoS Computational Biology, 2022, 18, e1009746.	1.9	22
3	The potential for complex computational models of aging. Mechanisms of Ageing and Development, 2021, 193, 111403.	3.8	21
4	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.	1.2	66
5	A quantile frailty index without dichotomization. Mechanisms of Ageing and Development, 2021, 199, 111570.	3.8	7
6	Interpretable Machine Learning of High-Dimensional Aging Health Trajectories. Innovation in Aging, 2021, 5, 676-676.	0.1	1
7	Interpretable Machine Learning of High-Dimensional Aging Health Trajectories. Innovation in Aging, 2021, 5, 672-673.	0.1	1
8	Generating synthetic aging trajectories with a weighted network model using cross-sectional data. Scientific Reports, 2020, 10, .	2.7	11
9	Informative frailty indices from binarized biomarkers. Biogerontology, 2020, 21, 345-355.	3.2	9
10	Building, testing, and learning from network models of human aging. Innovation in Aging, 2020, 4, 487-487.	0.1	0
11	The Quantile Frailty Index: A Cutpoint-Free Approach to Biomarker-Based Health Assessment. Innovation in Aging, 2020, 4, 180-180.	0.1	0
12	Forecasting Individual Aging Trajectories and Survival with an Interpretable Network Model. Innovation in Aging, 2020, 4, 923-923.	0.1	0
13	Associations between a laboratory frailty index and adverse health outcomes across age and sex. Aging Medicine (Milton (N S W)), 2019, 2, 11-17.	1.5	35
14	UNDERSTANDING AGING AND FRAILTY WITH A PREDICTIVE NETWORK MODEL. Innovation in Aging, 2019, 3, S684-S684.	0.1	0
15	THE PROBLEM OF INTEGRATING OF BIOLOGICAL AND CLINICAL MARKERS OF AGEING. Innovation in Aging, 2019, 3, S84-S84.	0.1	0
16	A GENERIC METHODOLOGY FOR EFFECTIVE CREATION OF LABORATORY-TEST-BASED FRAILTY INDICES. Innovation in Aging, 2019, 3, S94-S95.	0.1	0
17	DETERMINATION OF BIOLOGICAL AGE. Innovation in Aging, 2018, 2, 836-836.	0.1	0
18	BIOLOGICAL AGE: JUST A METAPHOR FOR HETEROGENEITY IN THE HEALTH OF PEOPLE AT THE SAME CHRONOLOGICAL AGE OR MORE?. Innovation in Aging, 2018, 2, 836-836.	0.1	1

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19	A NETWORK PERSPECTIVE OF AGING AND FRAILTY. Innovation in Aging, 2018, 2, 713-714.	0.1	2
20	Is frailty a stable predictor of mortality across time? Evidence from the Cognitive Function and Ageing Studies. Age and Ageing, 2018, 47, 721-727.	1.2	55
21	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, , glw160.	2.4	19
22	Frailty status at admission to hospital predicts multiple adverse outcomes. Age and Ageing, 2017, 46, 801-806.	1.2	230
23	A Frailty Index Based On Deficit Accumulation Quantifies Mortality Risk in Humans and in Mice. Scientific Reports, 2017, 7, .	2.7	250
24	Changes in Frailty Predict Changes in Cognition in Older Men: The Honolulu-Asia Aging Study. Journal of Alzheimer's Disease, 2016, 53, 1003-1013.	1.6	51
25	Socioeconomic gradient in health in Canada: Is the gap widening or narrowing?. Health Policy, 2016, 120, 1040-1050.	2.0	52
26	Frailty and life satisfaction in Shanghai older adults: The roles of age and social vulnerability. Archives of Gerontology and Geriatrics, 2016, 67, 68-73.	2.4	62
27	Cumulative impact of health deficits, social vulnerabilities, and protective factors on cognitive dynamics in late life: a multistate modeling approach. Alzheimer's Research and Therapy, 2015, 7, .	4.3	42
28	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. Age and Ageing, 2015, 44, 327-330.	1.2	43
29	Frailty in the Honolulu-Asia Aging Study: Deficit Accumulation in a Male Cohort Followed to 90% Mortality. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2015, 70, 125-131.	2.4	53
30	Derivation of a frailty index from the interRAI acute care instrument. BMC Geriatrics, 2015, 15, .	2.1	106
31	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.	1.5	104
32	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. BMC Medicine, 2015, 13, .	4.4	297
33	What are frailty instruments for?. Age and Ageing, 2015, 44, 545-547.	1.2	99
34	Mortality in Relation to Frailty in Patients Admitted to a Specialized Geriatric Intensive Care Unit. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2015, 70, 1586-1594.	2.4	90
35	Age-related frailty and its association with biological markers of ageing. BMC Medicine, 2015, 13, .	4.4	275
36	Social vulnerability and survival across levels of frailty in the Honolulu-Asia Aging Study. Age and Ageing, 2015, 44, 709-712.	1.2	88

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37	The rate of aging: the rate of deficit accumulation does not change over the adult life span. Biogerontology, 2015, 17, 199-204.	3.2	145
38	Network visualization to discern patterns of relationships between symptoms in dementia. Model Assisted Statistics and Applications, 2014, 9, 353-359.	0.1	1
39	Biological Age Revisited. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2014, 69A, 295-296.	2.4	17
40	Age-related deficit accumulation and the risk of late-life dementia. Alzheimer's Research and Therapy, 2014, 6, .	4.3	106
41	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.	2.4	50
42	Standard laboratory tests to identify older adults at increased risk of death. BMC Medicine, 2014, 12, .	4.4	253
43	The risk of adverse outcomes in hospitalized older patients in relation to a frailty index based on a comprehensive geriatric assessment. Age and Ageing, 2014, 43, 127-132.	1.2	206
44	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.	2.2	36
45	Comparison of alternate scoring of variables on the performance of the frailty index. BMC Geriatrics, 2014, 14, .	2.1	87
46	Predicting disabilities in daily functioning in older people with intellectual disabilities using a frailty index. Research in Developmental Disabilities, 2014, 35, 2267-2277.	1.3	40
47	Characteristics of the least frail adults with intellectual disabilities: A positive biology perspective. Research in Developmental Disabilities, 2014, 35, 127-136.	1.3	18
48	Age-related deficit accumulation and the risk of late-life dementia. Alzheimer's Research and Therapy, 2014, 6, 54.	4.3	8
49	Evaluation of a frailty index based on a comprehensive geriatric assessment in a population based study of elderly Canadians. Aging Clinical and Experimental Research, 2013, 17, 465-471.	2.3	210
50	Frailty and survival of rural and urban seniors: results from the Canadian Study of Health and Aging. Aging Clinical and Experimental Research, 2013, 19, 145-153.	2.3	54
51	And mortality in older Chinese adults: Results from the Beijing longitudinal study of aging. Journal of Nutrition, Health and Aging, 2013, 16, 903-907.	2.4	115
52	Assessing biological aging: the origin of deficit accumulation. Biogerontology, 2013, 14, 709-717.	3.2	183
53	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.	1.3	98
54	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.	2.2	606

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55	An assessment of neurocognitive speed in relation to frailty. Age and Ageing, 2013, 42, 191-196.	1.2	27
56	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.	1.2	135
57	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.	1.2	100
58	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.	1.2	56
59	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.	2.4	50
60	Co-occurrence of cardiometabolic diseases and frailty in older Chinese adults in the Beijing Longitudinal Study of Ageing. Age and Ageing, 2013, 42, 663-663.	1.2	0
61	Dynamics of brain structure and cognitive function in the Alzheimer's disease neuroimaging initiative. Journal of Neurology, Neurosurgery and Psychiatry, 2013, 84, 71-78.	4.2	49
62	The impact of social vulnerability on the survival of the fittest older adults. Age and Ageing, 2012, 41, 161-165.	1.2	97
63	Butyrylcholinesterase Is Associated With β-Amyloid Plaques in the Transgenic APPSWE/PSEN1dE9 Mouse Model of Alzheimer Disease. Journal of Neuropathology and Experimental Neurology, 2012, 71, 2-14.	1.4	143
64	Disability and co-morbidity in relation to frailty: How much do they overlap?. Archives of Gerontology and Geriatrics, 2012, 55, e1-e8.	2.4	206
65	Frailty and survival of older Chinese adults in urban and rural areas: Results from the Beijing Longitudinal Study of Aging. Archives of Gerontology and Geriatrics, 2012, 54, 3-8.	2.4	91
66	HOW MIGHT DEFICIT ACCUMULATION GIVE RISE TO FRAILTY?. Journal of Frailty & Aging,the, 2012, , 1-4.	1.4	68
67	A comparison of the relationship of 14 performance-based measures with frailty in older women. Applied Physiology, Nutrition and Metabolism, 2011, 36, 928-938.	1.5	34
68	Applying neural network Poisson regression to predict cognitive score changes. Journal of Applied Statistics, 2011, 38, 2051-2062.	0.8	7
69	Frailty Defined by Deficit Accumulation and Geriatric Medicine Defined by Frailty. Clinics in Geriatric Medicine, 2011, 27, 17-26.	1.4	944
70	A Multistate Model of Cognitive Dynamics in Relation to Frailty in Older Adults. Annals of Epidemiology, 2011, 21, 507-516.	1.1	38
71	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.	2.2	108
72	Assessing Balance and Mobility to Track Illness and Recovery in Older Inpatients. Journal of General Internal Medicine, 2011, 26, 1471-1478.	1.5	71

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73	Analysis of frailty and survival from late middle age in the Beijing Longitudinal Study of Aging. BMC Geriatrics, 2011, 11, .	2.1	69
74	Impairments in mobility and balance in relation to frailty. Archives of Gerontology and Geriatrics, 2011, 53, 79-83.	2.4	105
75	Nontraditional risk factors combine to predict Alzheimer disease and dementia. Neurology, 2011, 77, 227-234.	0.7	216
76	Changes in relative fitness and frailty across the adult lifespan: evidence from the Canadian National Population Health Survey. Cmaj, 2011, 183, E487-E494.	0.8	524
77	Aging, frailty and age-related diseases. Biogerontology, 2010, 11, 547-563.	3.2	583
78	Comparison of two frailty measures in the Conselice Study of Brain Ageing. Journal of Nutrition, Health and Aging, 2010, 14, 278-281.	2.4	17
79	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.	2.2	148
80	Prevalence and 10-Year Outcomes of Frailty in Older Adults in Relation to Deficit Accumulation. Journal of the American Geriatrics Society, 2010, 58, 681-687.	2.2	958
81	Modelling Cognitive Decline in the Hypertension in the Very Elderly Trial [HYVET] and Proposed Risk Tables for Population Use. PLoS ONE, 2010, 5, e11775.	1.5	16
82	Proxy reports of physical activity were valid in older people with and without cognitive impairment. Journal of Clinical Epidemiology, 2010, 63, 435-440.	2.5	11
83	Changes in Cognition During the Course of Eight Years in Elderly Japanese Americans: A Multistate Transition Model. Annals of Epidemiology, 2010, 20, 480-486.	1.1	13
84	Impact of Exercise in Community-Dwelling Older Adults. PLoS ONE, 2009, 4, e6174.	1.5	82
85	Effect of smoking on the accumulation of deficits, frailty and survival in older adults: A secondary analysis from the Canadian study of health and aging. Journal of Nutrition, Health and Aging, 2009, 13, 468-472.	2.4	92
86	A standard procedure for creating a frailty index. BMC Geriatrics, 2008, 8, .	2.1	3,259
87	Transitions in cognitive test scores over 5 and 10 years in elderly people: Evidence for a model of age-related deficit accumulation. BMC Geriatrics, 2008, 8, .	2.1	22
88	Reliability of the Hierarchical Assessment of Balance and Mobility in Frail Older Adults. Journal of the American Geriatrics Society, 2008, 56, 1213-1217.	2.2	62
89	Apolipoprotein E-polymorphism, frailty and mortality in older adults. Journal of Cellular and Molecular Medicine, 2008, 12, 2754-2761.	2.4	42
90	Different Ways to Think about Frailty?. American Journal of Medicine, 2008, 121, e21.	1.4	9

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91	Response to Letter by Toni et al. Stroke, 2008, 39, .	4.4	0
92	Social Vulnerability, Frailty and Mortality in Elderly People. PLoS ONE, 2008, 3, e2232.	1.5	367
93	Changes in Cognition and Mortality in Relation to Exercise in Late Life: A Population Based Study. PLoS ONE, 2008, 3, e3124.	1.5	104
94	Failure to complete performance-based measures is associated with poor health status and an increased risk of death. Age and Ageing, 2007, 36, 225-228.	1.2	40
95	Clinical Diagnosis of Lacunar Stroke in the First 6 Hours After Symptom Onset. Stroke, 2007, 38, 2706-2711.	4.4	13
96	A Comparison of Two Approaches to Measuring Frailty in Elderly People. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2007, 62, 738-743.	2.4	1,163
97	Frailty in Relation to the Accumulation of Deficits. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2007, 62, 722-727.	2.4	2,812
98	How should we grade frailty in nursing home patients?. Journal of the American Medical Directors Association, 2007, 8, 595-603.	1.5	229
99	GERIATRIC SYNDROMES. Journal of the American Geriatrics Society, 2007, 55, 2092-2092.	2.2	8
100	A cross-national study of transitions in deficit counts in two birth cohorts: Implications for modeling ageing. Experimental Gerontology, 2007, 42, 241-246.	2.9	43
101	Improvement and decline in health status from late middle age: Modeling age-related changes in deficit accumulation. Experimental Gerontology, 2007, 42, 1109-1115.	2.9	64
102	Gait and posture impairment, parkinsonism and cognitive decline in older people. Journal of Neural Transmission, 2007, 114, 1355-1361.	2.4	44
103	Decrease in the relative heterogeneity of health with age: A cross-national comparison. Mechanisms of Ageing and Development, 2006, 127, 70-72.	3.8	20
104	Limits to deficit accumulation in elderly people. Mechanisms of Ageing and Development, 2006, 127, 494-496.	3.8	232
105	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.	3.8	106
106	Relative Fitness and Frailty of Elderly Men and Women in Developed Countries and Their Relationship with Mortality. Journal of the American Geriatrics Society, 2005, 53, 2184-2189.	2.2	526
107	A global clinical measure of fitness and frailty in elderly people. Cmaj, 2005, 173, 489-495.	0.8	8,163
108	Assessment of Individual Risk of Death Using Self-Report Data: An Artificial Neural Network Compared with a Frailty Index. Journal of the American Geriatrics Society, 2004, 52, 1180-1184.	2.2	77

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109	Changes with age in the distribution of a frailty index. Mechanisms of Ageing and Development, 2004, 125, 517-519.	3.8	155
110	The Estimation of Relative Fitness and Frailty in Community-Dwelling Older Adults Using Self-Report Data. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2004, 59, M627-M632.	2.4	234
111	Techniques for knowledge discovery in existing biomedical databases Estimation of individual aging effects in cognition in relation to dementia. Journal of Clinical Epidemiology, 2003, 56, 116-123.	2.5	10
112	The mortality rate as a function of accumulated deficits in a frailty index. Mechanisms of Ageing and Development, 2002, 123, 1457-1460.	3.8	248
113	Frailty, fitness and late-life mortality in relation to chronological and biological age. BMC Geriatrics, 2002, 2, .	2.1	643
114	The Rate of Decline in Function in Alzheimer's Disease and Other Dementias. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 1999, 54, M65-M69.	2.4	41
115	Vector Diagnostics in Dementia Derived from Bayes' Theorem. American Journal of Epidemiology, 1997, 146, 665-671.	2.4	10
116	Heterogeneity of Human Aging and Its Assessment. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 0, , glw089.	2.4	121
117	Frailty affects the initial treatment response and time to recovery of mobility in acutely ill older adults admitted to hospital. Age and Ageing, 0, , .	1.2	44
118	Title is missing!. , 0, .		1
119	Title is missing!. , 0, .		1