

Xiaowei Song

List of Publications by Year in descending order

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Version: 2024-02-01

92
papers

11,195
citations

147566

31
h-index

69108

77
g-index

105
all docs

105
docs citations

105
times ranked

12556
citing authors

#	ARTICLE	IF	CITATIONS
1	Promoting early management of frailty in the new normal: An updated software tool in addressing the need of virtual assessment of frailty at points of care. <i>Aging Medicine (Milton (N S W))</i> , 2022, 5, 4-9.	0.9	4
2	Functional MRI evaluation of cognitive effects of carotid stenosis revascularization. <i>Brain and Behavior</i> , 2022, 12, e2512.	1.0	2
3	Artificial intelligence in brain MRI analysis of Alzheimer's disease over the past 12 years: A systematic review. <i>Ageing Research Reviews</i> , 2022, 77, 101614.	5.0	33
4	Toward improved homecare of frail older adults: A focus group study synthesizing patient and caregiver perspectives. <i>Aging Medicine (Milton (N S W))</i> , 2021, 4, 4-11.	0.9	7
5	Contextual Processing and the Impacts of Aging and Neurodegeneration: A Scoping Review. <i>Clinical Interventions in Aging</i> , 2021, Volume 16, 345-361.	1.3	1
6	Functional MRI evaluation of the effect of carotid artery stenting: a case study demonstrating cognitive improvement. <i>Acta Radiologica Open</i> , 2021, 10, 205846012098882.	0.3	5
7	Event Related Potential Signal Capture Can Be Enhanced through Dynamic SNR-Weighted Channel Pooling. <i>Sensors</i> , 2021, 21, 7258.	2.1	3
8	Effect of aging and neurodegeneration on contextual processing. <i>Alzheimer's and Dementia</i> , 2021, 17, e049472.	0.4	0
9	Frailty and dementia in long-term care: An analysis of the InterRAI data over the past decade. <i>Alzheimer's and Dementia</i> , 2021, 17, e049471.	0.4	1
10	Promoting Early Assessment of Frailty in the New Normal: An Updated eFI-CGA Software Tool. <i>Innovation in Aging</i> , 2021, 5, 818-819.	0.0	0
11	Brainstem Abnormalities in Myalgic Encephalomyelitis/Chronic Fatigue Syndrome: A Scoping Review and Evaluation of Magnetic Resonance Imaging Findings. <i>Frontiers in Neurology</i> , 2021, 12, 769511.	1.1	18
12	Web-based software applications for frailty assessment in older adults: a scoping review of current status with insights into future development. <i>BMC Geriatrics</i> , 2021, 21, 723.	1.1	11
13	Novel Signal Processing Technique for Capture and Isolation of Blink-Related Oscillations Using a Low-Density Electrode Array for Bedside Evaluation of Consciousness. <i>IEEE Transactions on Biomedical Engineering</i> , 2020, 67, 453-463.	2.5	8
14	White Matter Neuroplasticity: Motor Learning Activates the Internal Capsule and Reduces Hemodynamic Response Variability. <i>Frontiers in Human Neuroscience</i> , 2020, 14, 509258.	1.0	20
15	A fast and fully-automated deep-learning approach for accurate hemorrhage segmentation and volume quantification in non-contrast whole-head CT. <i>Scientific Reports</i> , 2020, 10, 19389.	1.6	42
16	Enabling event-related potential assessments using low-density electrode arrays: A new technique for denoising individual channel EEG data. , 2020, , .		6
17	A portable brainwave technology in detecting functional brain changes in aging and dementia: A pilot study on feasibility of the application in residential care older adults. <i>Alzheimer's and Dementia</i> , 2020, 16, e038658.	0.4	1
18	Polypharmacy in long-term care residents: Prevalence and relationships with age and dementia. <i>Alzheimer's and Dementia</i> , 2020, 16, e038664.	0.4	0

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19	Early Detection of Alzheimer's Disease Using Magnetic Resonance Imaging: A Novel Approach Combining Convolutional Neural Networks and Ensemble Learning. <i>Frontiers in Neuroscience</i> , 2020, 14, 259.	1.4	158
20	Differential neural processing of spontaneous blinking under visual and auditory sensory environments: An EEG investigation of blink-related oscillations. <i>NeuroImage</i> , 2020, 218, 116879.	2.1	17
21	Distant Sensor Prediction of Event-Related Potentials. <i>IEEE Transactions on Biomedical Engineering</i> , 2020, 67, 2916-2924.	2.5	4
22	A Computerized Frailty Assessment Tool at Points-of-Care: Development of a Standalone Electronic Comprehensive Geriatric Assessment/Frailty Index (eFI-CGA). <i>Frontiers in Public Health</i> , 2020, 8, 89.	1.3	13
23	Reply: P300 amplitudes after concussions are usually decreased not increased. <i>Brain</i> , 2019, 142, e33-e33.	3.7	1
24	White Matter fMRI Activation Cannot Be Treated as a Nuisance Regressor: Overcoming a Historical Blind Spot. <i>Frontiers in Neuroscience</i> , 2019, 13, 1024.	1.4	67
25	Age-Related Whole-Brain Structural Changes in Relation to Cardiovascular Risks Across the Adult Age Spectrum. <i>Frontiers in Aging Neuroscience</i> , 2019, 11, 85.	1.7	9
26	THE EFFECTS OF FRAILITY, POLYPHARMACY, AND COGNITION ON HEALTH OUTCOMES: A STUDY ON INTERRAI RESIDENTIAL CARE DATA. <i>Innovation in Aging</i> , 2019, 3, S86-S86.	0.0	0
27	Good data? The EEG Quality Index for Automated Assessment of Signal Quality. , 2019, , .		8
28	THE ELECTRONIC FRAILITY INDEX BASED ON THE COMPREHENSIVE GERIATRIC ASSESSMENT: DEVELOPMENT AND TESTING. <i>Innovation in Aging</i> , 2019, 3, S685-S686.	0.0	0
29	Sex differences in the relative heterogeneity of frailty in relation to age, frailty, health protection, and five-year mortality. <i>Aging Medicine (Milton (N S W))</i> , 2019, 2, 207-215.	0.9	4
30	MRI-based evaluation of structural degeneration in the ageing brain: Pathophysiology and assessment. <i>Ageing Research Reviews</i> , 2019, 49, 67-82.	5.0	41
31	Brain vital signs detect concussion-related neurophysiological impairments in ice hockey. <i>Brain</i> , 2019, 142, 255-262.	3.7	36
32	Accessing knowledge of the "here and now": a new technique for capturing electromagnetic markers of orientation processing. <i>Journal of Neural Engineering</i> , 2019, 16, 016008.	1.8	14
33	Cognitive loading via mental arithmetic modulates effects of blink-related oscillations on precuneus and ventral attention network regions. <i>Human Brain Mapping</i> , 2019, 40, 377-393.	1.9	18
34	Automation of CT-based haemorrhagic stroke assessment for improved clinical outcomes: study protocol and design. <i>BMJ Open</i> , 2018, 8, e020260.	0.8	4
35	Detecting white matter activity using conventional 3-Tesla fMRI: An evaluation of standard field strength and hemodynamic response function. <i>NeuroImage</i> , 2018, 169, 145-150.	2.1	50
36	Reliability of the MRI-based Brain Atrophy and Lesion Index in the evaluation of whole-brain structural health. <i>Aging Medicine (Milton (N S W))</i> , 2018, 1, 125-132.	0.9	6

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37	Functional <sc>MRI</sc> on executive functioning in aging and dementia: A scoping review of cognitive tasks. Aging Medicine (Milton (N S W)), 2018, 1, 209-219.	0.9	16
38	Toward <sc>MRI</sc>-based whole-brain health assessment: The brain atrophy and lesion index (<sc>BALI</sc>). Aging Medicine (Milton (N S W)), 2018, 1, 55-63.	0.9	13
39	Multimodal characterization of the semantic N400 response within a rapid evaluation brain vital sign framework. Journal of Translational Medicine, 2018, 16, 151.	1.8	33
40	Acupuncture therapy in treating migraine: results of a magnetic resonance spectroscopy imaging study. Journal of Pain Research, 2018, Volume 11, 889-900.	0.8	23
41	Functional <sc>MRI</sc> technologies in the study of medication treatment effect on Alzheimer's disease. Aging Medicine (Milton (N S W)), 2018, 1, 75-95.	0.9	8
42	Brain Vital Signs: Expanding From the Auditory to Visual Modality. Frontiers in Neuroscience, 2018, 12, 968.	1.4	14
43	[P2086]: EDUCATION AND PHYSICAL ACTIVITY IN RELATION TO FRAILTY AND WHOLE-BRAIN STRUCTURAL HEALTH IN ALZHEIMER'S DISEASE, MILD COGNITIVE IMPAIRMENT, AND NORMAL AGING: RESULTS FROM THE AUSTRALIAN IMAGING, BIOMARKERS AND LIFESTYLE FLAGSHIP STUDY OF AGEING (AIBL). Alzheimer's and Dementia, 2017, 13, P639.	0.4	2
44	MRI assessment of whole-brain structural changes in aging. Clinical Interventions in Aging, 2017, Volume 12, 1251-1270.	1.3	30
45	Spontaneous Blinks Activate the Precuneus: Characterizing Blink-Related Oscillations Using Magnetoencephalography. Frontiers in Human Neuroscience, 2017, 11, 489.	1.0	27
46	Developing Brain Vital Signs: Initial Framework for Monitoring Brain Function Changes Over Time. Frontiers in Neuroscience, 2016, 10, 211.	1.4	40
47	Long-Term Motor Recovery After Severe Traumatic Brain Injury: Beyond Established Limits. Journal of Head Trauma Rehabilitation, 2016, 31, E50-E58.	1.0	15
48	ICP137: Application of Brain Atrophy Lesion Index (Bali) to Common Clinical MRI Sequences: Evaluation of Whole Brain Structural Changes in Aging and Dementia. Alzheimer's and Dementia, 2016, 12, P101.	0.4	0
49	ICP158: Developing an Electrophysiological Indicator of Contextual Orientation. Alzheimer's and Dementia, 2016, 12, P117.	0.4	0
50	P1-269: Application of Brain Atrophy Lesion Index (BALI) to Common Clinical MRI Sequences: Evaluation of Whole Brain Structural Changes in Aging and Dementia. , 2016, 12, P518-P518.		0
51	ICP160: Developing Brain Vital Signs: Initial Assessments Across The Adult Life Span. Alzheimer's and Dementia, 2016, 12, P118.	0.4	0
52	ICP162: Blink-Related Oscillations as Potential Measure of Default Mode Network (DMN) Activity in Alzheimer's Disease (AD). Alzheimer's and Dementia, 2016, 12, P119.	0.4	0
53	P4233: Brain Health in Relation to Physical Health and the Risk of Cognitive Decline and Dementia: Results from the Alzheimer's Disease Neuroimaging Initiative. Alzheimer's and Dementia, 2016, 12, P1118.	0.4	1
54	Waist circumference is correlated with poorer cognition in elderly type 2 diabetes women. Alzheimer's and Dementia, 2016, 12, 925-929.	0.4	22

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55	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.	1.7	83
56	Advances in High-Field Magnetic Resonance Spectroscopy in Alzheimer's Disease. <i>Current Alzheimer Research</i> , 2014, 11, 367-388.	0.7	29
57	Age-related deficit accumulation and the risk of late-life dementia. <i>Alzheimer's Research and Therapy</i> , 2014, 6, 54.	3.0	94
58	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.	1.7	45
59	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.	1.3	34
60	Evaluation of Whole Brain Health in Aging and Alzheimer's Disease: A Standard Procedure for Scoring an MRI-Based Brain Atrophy and Lesion Index. <i>Journal of Alzheimer's Disease</i> , 2014, 42, 691-703.	1.2	14
61	Assessing biological aging: the origin of deficit accumulation. <i>Biogerontology</i> , 2013, 14, 709-717.	2.0	165
62	A limit to frailty in very old, community-dwelling people: a secondary analysis of the Chinese longitudinal health and longevity study. <i>Age and Ageing</i> , 2013, 42, 372-377.	0.7	83
63	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.	0.7	41
64	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.	1.7	43
65	Dynamics of brain structure and cognitive function in the Alzheimer's disease neuroimaging initiative. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2013, 84, 71-78.	0.9	46
66	Combining Structural Brain Changes Improves the Prediction of Alzheimer's Disease and Mild Cognitive Impairment. <i>Dementia and Geriatric Cognitive Disorders</i> , 2012, 33, 318-326.	0.7	23
67	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.	1.4	73
68	An MRI Brain Atrophy and Lesion Index to Assess the Progression of Structural Changes in Alzheimer's Disease, Mild Cognitive Impairment, and Normal Aging: A Follow-Up Study. <i>Journal of Alzheimer's Disease</i> , 2011, 26, 359-367.	1.2	30
69	Advances in perfusion magnetic resonance imaging in Alzheimer's disease. , 2011, 7, 185-196.		48
70	Analysis of frailty and survival from late middle age in the Beijing Longitudinal Study of Aging. <i>BMC Geriatrics</i> , 2011, 11, 17.	1.1	60
71	Nontraditional risk factors combine to predict Alzheimer disease and dementia. <i>Neurology</i> , 2011, 77, 227-234.	1.5	185
72	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.	0.9	423

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73	Detection versus location judgments in a hidden pattern task: Functional MRI and behavioral correlates. <i>Journal of Clinical and Experimental Neuropsychology</i> , 2011, 33, 765-775.	0.8	0
74	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.	1.3	783
75	An MRI-Based Semiquantitative Index for the Evaluation of Brain Atrophy and Lesions in Alzheimer's Disease, Mild Cognitive Impairment and Normal Aging. <i>Dementia and Geriatric Cognitive Disorders</i> , 2010, 30, 121-130.	0.7	26
76	Executive dysfunction in vascular cognitive impairment in the consortium to investigate vascular impairment of cognition study. <i>Journal of the Neurological Sciences</i> , 2010, 288, 142-146.	0.3	26
77	A site directed fMRI approach for evaluating functional status in the anterolateral temporal lobes. <i>Neuroscience Research</i> , 2007, 57, 120-128.	1.0	6
78	Frailty and survival of rural and urban seniors: results from the Canadian Study of Health and Aging. <i>Aging Clinical and Experimental Research</i> , 2007, 19, 145-153.	1.4	57
79	Disease progression in vascular cognitive impairment: Cognitive, functional and behavioural outcomes in the Consortium to Investigate Vascular Impairment of Cognition (CIVIC) cohort study. <i>Journal of the Neurological Sciences</i> , 2007, 252, 106-112.	0.3	36
80	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.	1.2	60
81	Cognitive Impairment of Acute Onset in the Consortium to Investigate Vascular Impairment of Cognition (CIVIC) Study: Occurrence, Correlates, and Outcomes. <i>American Journal of Geriatric Psychiatry</i> , 2006, 14, 893-896.	0.6	14
82	Clinical and radiographic subtypes of vascular cognitive impairment in a clinic-based cohort study. <i>Journal of the Neurological Sciences</i> , 2006, 240, 7-14.	0.3	33
83	Attainment of treatment goals by people with Alzheimer's disease receiving galantamine: a randomized controlled trial. <i>Cmaj</i> , 2006, 174, 1099-1105.	0.9	141
84	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.	1.3	394
85	Self-referential tags in the discourse of people with Alzheimer's disease. <i>Brain and Language</i> , 2006, 97, 41-52.	0.8	16
86	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.	1.3	486
87	A global clinical measure of fitness and frailty in elderly people. <i>Cmaj</i> , 2005, 173, 489-495.	0.9	5,720
88	Index Variables for Studying Outcomes in Vascular Cognitive Impairment. <i>Neuroepidemiology</i> , 2005, 25, 196-204.	1.1	21
89	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.	1.4	217
90	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.	1.3	74

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91	Operationalizing a Frailty Index from a Standardized Comprehensive Geriatric Assessment. Journal of the American Geriatrics Society, 2004, 52, 1929-1933.	1.3	490
92	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.	1.7	215