

# Zahra Moussavi

## List of Publications by Year in descending order

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Version: 2024-02-01

84  
papers

1,185  
citations

567281

15  
h-index

454955

30  
g-index

89  
all docs

89  
docs citations

89  
times ranked

1301  
citing authors

#	ARTICLE	IF	CITATIONS
1	Sleep apnea monitoring and diagnosis based on pulse oximetry and tracheal sound signals. Medical and Biological Engineering and Computing, 2010, 48, 1087-1097.	2.8	111
2	Acoustic breath-phase detection using tracheal breath sounds. Medical and Biological Engineering and Computing, 2012, 50, 297-308.	2.8	99
3	Short and Long-term Effects of rTMS Treatment on Alzheimer's Disease at Different Stages: A Pilot Study. Journal of Experimental Neuroscience, 2015, 9, JEN.S24004.	2.3	90
4	Snoring sounds variability as a signature of obstructive sleep apnea. Medical Engineering and Physics, 2013, 35, 479-485.	1.7	69
5	Neurocognitive Treatment for a Patient with Alzheimer's Disease Using a Virtual Reality Navigational Environment. Journal of Experimental Neuroscience, 2016, 10, JEN.S40827.	2.3	57
6	Acoustic obstructive sleep apnea detection. , 2009, 2009, 7110-3.		49
7	Orientation in Virtual Reality Does Not Fully Measure Up to the Real-World. Scientific Reports, 2017, 7, 18109.	3.3	43
8	THE EFFICACY OF DEEP REPETITIVE TRANSCRANIAL MAGNETIC STIMULATION OVER THE MEDIAL PREFRONTAL CORTEX IN OBSESSIVE COMPULSIVE DISORDER: RESULTS FROM AN OPEN-LABEL STUDY. Depression and Anxiety, 2015, 32, 445-450.	4.1	42
9	A Pilot Randomised Double-Blind Study of the Tolerability and efficacy of repetitive Transcranial Magnetic Stimulation on Persistent Post-Concussion Syndrome. Scientific Reports, 2019, 9, 5498.	3.3	36
10	Assessment of Obstructive Sleep Apnea and its Severity during Wakefulness. Annals of Biomedical Engineering, 2012, 40, 916-924.	2.5	35
11	Molybdenum coated SU-8 microneedle electrodes for transcutaneous electrical nerve stimulation. Biomedical Microdevices, 2018, 20, 1.	2.8	34
12	Design and Application of a Novel Virtual Reality Navigational Technology (VRNChair). Journal of Experimental Neuroscience, 2014, 8, JEN.S13448.	2.3	28
13	Respiratory Flowâ€“Sound Relationship During Both Wakefulness and Sleep and Its Variation in Relation to Sleep Apnea. Annals of Biomedical Engineering, 2013, 41, 537-546.	2.5	25
14	Obstructive Sleep Apnea Screening and Airway Structure Characterization During Wakefulness Using Tracheal Breathing Sounds. Annals of Biomedical Engineering, 2017, 45, 839-850.	2.5	25
15	Effect of Cognitive Training Targeting Associative Memory in the Elderly: A Small Randomized Trial and a Longitudinal Evaluation. Journal of the American Geriatrics Society, 2013, 61, 2252-2254.	2.6	18
16	Bipolar disorder in the balance. European Archives of Psychiatry and Clinical Neuroscience, 2019, 269, 761-775.	3.2	17
17	Automatic breath phase detection using only tracheal sounds. , 2010, 2010, 272-5.		16
18	rTMS as a Treatment of Alzheimerâ€™s Disease with and without Comorbidity of Depression: A Review. Neuroscience Journal, 2013, 2013, 1-5.	2.5	16

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19	A comparison of regularized logistic regression and random forest machine learning models for daytime diagnosis of obstructive sleep apnea. <i>Medical and Biological Engineering and Computing</i> , 2020, 58, 2517-2529.	2.8	16
20	The effect of transcranial alternating current stimulation (tACS) on cognitive function in older adults with dementia. , 2020, 2020, 3649-3653.		15
21	A Novel Program to Improve Cognitive Function in Individuals With Dementia Using Transcranial Alternating Current Stimulation (tACS) and Tutored Cognitive Exercises. <i>Frontiers in Aging</i> , 2021, 2, .	2.6	15
22	Intra-subject variability of snoring sounds in relation to body position, sleep stage, and blood oxygen level. <i>Medical and Biological Engineering and Computing</i> , 2013, 51, 429-439.	2.8	14
23	A new diagnostic vestibular evoked response. <i>Journal of Otolaryngology - Head and Neck Surgery</i> , 2015, 44, 14.	1.9	14
24	A Subject-Specific Acoustic Model of the Upper Airway for Snoring Sounds Generation. <i>Scientific Reports</i> , 2016, 6, 25730.	3.3	14
25	Introducing a new age-and-cognition-sensitive measurement for assessing spatial orientation using a landmark-less virtual reality navigational task. <i>Quarterly Journal of Experimental Psychology</i> , 2017, 70, 1406-1419.	1.1	14
26	Quantitative measurement of post-concussion syndrome Using Electrovestibulography. <i>Scientific Reports</i> , 2017, 7, 16371.	3.3	14
27	Repeated Transcranial Magnetic Stimulation for Improving Cognition in Patients With Alzheimer Disease: Protocol for a Randomized, Double-Blind, Placebo-Controlled Trial. <i>JMIR Research Protocols</i> , 2021, 10, e25144.	1.0	14
28	Effects of virtual reality technology locomotive multi-sensory motion stimuli on a user simulator sickness and controller intuitiveness during a navigation task. <i>Medical and Biological Engineering and Computing</i> , 2020, 58, 143-154.	2.8	13
29	Does Practicing with a Virtual Reality Driving Simulator Improve Spatial Cognition in Older Adults? A Pilot Study. <i>Neuroscience Insights</i> , 2020, 15, 263310552096793.	1.6	13
30	Older Adults Show Less Flexible Spatial Cue Use When Navigating in a Virtual Reality Environment Compared With Younger Adults. <i>Neuroscience Insights</i> , 2019, 14, 263310551989680.	1.6	11
31	Assessment of Swallowing Sounds' Stages with Hidden Markov Model. , 2005, 2005, 6989-92.		10
32	Effect of viewing mode on pathfinding in immersive Virtual Reality. , 2015, 2015, 4619-22.		10
33	Virtual reality body motion induced navigational controllers and their effects on simulator sickness and pathfinding. , 2017, 2017, 4175-4178.		10
34	Breath Analysis of Respiratory Flow using Tracheal Sounds. , 2007, , .		9
35	Sleep Stage Detection Using Tracheal Breathing Sounds: A Pilot Study. <i>Annals of Biomedical Engineering</i> , 2015, 43, 2530-2537.	2.5	9
36	EVestG Recordings are Vestibuloacoustic Signals. <i>Journal of Medical and Biological Engineering</i> , 2019, 39, 213-217.	1.8	9

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37	Preliminary report: Neural firing patterns specific for Meniere's disease. Journal of Otolaryngology - Head and Neck Surgery, 2014, 43, 52.	1.9	8
38	Differences Between Physical vs. Virtual Evoked Vestibular Responses. Annals of Biomedical Engineering, 2020, 48, 1241-1255.	2.5	8
39	Physiological separation of Alzheimer's disease and Alzheimer's disease with significant levels of cerebrovascular symptomology and healthy controls. Medical and Biological Engineering and Computing, 2021, 59, 1597-1610.	2.8	8
40	The effect of aging on human brain spatial processing performance. , 2012, 2012, 6768-71.		7
41	A comparison between recording sites of snoring sounds in relation to upper airway obstruction. , 2012, 2012, 4246-9.		7
42	Effects of Increased Pharyngeal Tissue Mass Due to Fluid Accumulation in the Neck on the Acoustic Features of Snoring Sounds in Men. Journal of Clinical Sleep Medicine, 2018, 14, 1653-1660.	2.6	7
43	Investigating the validity and reliability of Electrovestibulography (EVestG) for detecting post-concussion syndrome (PCS) with and without comorbid depression. Scientific Reports, 2018, 8, 14495.	3.3	7
44	Baseline Prediction of rTMS efficacy in Alzheimer patients. Psychiatry Research, 2022, 308, 114348.	3.3	7
45	Measuring Minimum Critical Flow for Normal Breath Sounds. , 2005, 2005, 2726-9.		6
46	A Novel Decision Making Procedure during Wakefulness for Screening Obstructive Sleep Apnea using Anthropometric Information and Tracheal Breathing Sounds. Scientific Reports, 2019, 9, 11467.	3.3	6
47	Transcranial magnetic stimulation safety from operator exposure perspective. Medical and Biological Engineering and Computing, 2020, 58, 249-256.	2.8	6
48	Correlation between Ocular and Vestibular Abnormalities and Convergence Insufficiency in Post-Concussion Syndrome. Neuro-Ophthalmology, 2020, 44, 157-167.	1.0	6
49	Repeated Transcranial Magnetic Stimulation for Improving Cognition in Alzheimer Disease: Protocol for an Interim Analysis of a Randomized Controlled Trial. JMIR Research Protocols, 2021, 10, e31183.	1.0	6
50	Regularized logistic regression for obstructive sleep apnea screening during wakefulness using daytime tracheal breathing sounds and anthropometric information. Medical and Biological Engineering and Computing, 2019, 57, 2641-2655.	2.8	5
51	Quantitative measures of the visually evoked sensation of body movement in space (vection) using Electrovestibulography (EVestG). Virtual Reality, 2021, 25, 731-744.	6.1	5
52	Comparison between vestibular responses to a physical and virtual reality rotating chair. , 2020, , .		5
53	Nonlinear properties of snoring sounds. , 2011, , .		4
54	Visio-Vestibular Interaction in Humans: Changes in the Vestibular Response Following Visual Stimuli of Different Colors. Journal of Medical and Biological Engineering, 2019, 39, 238-243.	1.8	4

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55	Determining Breathing Sound Features Representative of Obstructive Sleep Apnea During Wakefulness with Least Sensitivity to Other Risk Factors. <i>Journal of Medical and Biological Engineering</i> , 2019, 39, 230-237.	1.8	4
56	Predicting Polysomnography Parameters from Anthropometric Features and Breathing Sounds Recorded during Wakefulness. <i>Diagnostics</i> , 2021, 11, 905.	2.6	4
57	Automated quantification and comparison of spatio-temporal GAIT parameters during treadmill and overground walking. <i>Canadian Conference on Electrical and Computer Engineering</i> , 2008, , .	0.0	3
58	Spectral and Higher Order Statistical Characteristics of Expiratory Tracheal Breathing Sounds During Wakefulness and Sleep in People with Different Levels of Obstructive Sleep Apnea. <i>Journal of Medical and Biological Engineering</i> , 2019, 39, 244-250.	1.8	3
59	The modified Allen test and a novel objective screening algorithm for hand collateral circulation using differential photoplethysmography for preoperative assessment: a pilot study. <i>Journal of Medical Engineering and Technology</i> , 2020, 44, 82-93.	1.4	3
60	Egocentric spatial orientation differences between Alzheimer's disease at early stages and mild cognitive impairment: a diagnostic aid. <i>Medical and Biological Engineering and Computing</i> , 2022, 60, 501-509.	2.8	3
61	Design an Oral Photoplethysmogram for Deriving Peripheral Oxygen Saturation Level1. <i>Journal of Medical Devices, Transactions of the ASME</i> , 2015, 9, .	0.7	2
62	Using tracheal breathing sounds and anthropometric information for screening obstructive sleep apnoea during wakefulness. <i>Journal of Medical Engineering and Technology</i> , 2019, 43, 111-123.	1.4	2
63	Using EVestG Assessments for Detection of Symptomology Consequent to a Lateral-Impact Concussion. <i>Journal of Medical and Biological Engineering</i> , 2019, 39, 218-223.	1.8	2
64	Electrovestibulography (EVestG) application for measuring vestibular response to horizontal pursuit and saccadic eye movements. <i>Biocybernetics and Biomedical Engineering</i> , 2021, 41, 527-539.	5.9	2
65	The Effect of Transcranial Alternating Current Stimulation With Cognitive Training on Executive Brain Function in Individuals With Dementia: Protocol for a Crossover Randomized Controlled Trial. <i>JMIR Research Protocols</i> , 2022, 11, e37282.	1.0	2
66	Sleep-wake states change the interictal localization of candidate epileptic source generators. <i>Sleep</i> , 2022, 45, .	1.1	2
67	Development of a NeuroMechano Stimulator for Rehabilitation of People with Incomplete Spinal Cord Injury. <i>Journal of Medical Devices, Transactions of the ASME</i> , 2012, 6, .	0.7	1
68	Design of a Naturalistic Navigational Virtual Reality Using Oculus Rift1. <i>Journal of Medical Devices, Transactions of the ASME</i> , 2014, 8, .	0.7	1
69	Do Older and Young Adults Learn to Integrate Geometry While Navigating in an Environment of a Serious Game?. <i>Neuroscience Insights</i> , 2021, 16, 263310552098886.	1.6	1
70	A feature reduction and selection algorithm for improved obstructive sleep apnea classification process. <i>Medical and Biological Engineering and Computing</i> , 2021, 59, 2063-2072.	2.8	1
71	Fluid-structure interaction modelling of the upper airway with and without obstructive sleep apnea: a review. <i>Medical and Biological Engineering and Computing</i> , 2022, 60, 1827-1849.	2.8	1
72	Verification EVestG recordings are vestibuloacoustic signals. <i>Laryngoscope Investigative Otolaryngology</i> , 2022, 7, 1171-1177.	1.5	1

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73	The Feasibility of Implanting a Microphone into Mouthguards for Sleep Apnea Assessment. Journal of Medical Devices, Transactions of the ASME, 2012, 6, .	0.7	0
74	Design of a Signal Conditioning Device for Remote Breath and Swallowing Sounds Recording. Journal of Medical Devices, Transactions of the ASME, 2013, 7, .	0.7	0
75	Design of a Wireless Biological Signal Conditioning System1. Journal of Medical Devices, Transactions of the ASME, 2013, 7, .	0.7	0
76	Designing and Implementing a Portable Near-Infrared Imaging System for Monitoring of Human's Brain Functional Activity1. Journal of Medical Devices, Transactions of the ASME, 2015, 9, .	0.7	0
77	Predicting Cognitive Status of Older Adults by Using Directional Accuracy in Explicit Timing Tasks. Journal of Medical and Biological Engineering, 2019, 39, 418-423.	1.8	0
78	Effects of training with a neuro-mechano stimulator rehabilitation bicycle on functional recovery and paired-reflex depression of the soleus in individuals with incomplete paralysis: a proof-of-principle study. International Journal of Neuroscience, 2019, 129, 1066-1075.	1.6	0
79	Acoustic characterization of upper airway variations from wakefulness to sleep with respect to obstructive sleep apnea. Medical and Biological Engineering and Computing, 2020, 58, 2375-2385.	2.8	0
80	Comparing Vestibular Responses to Linear and Angular Whole-Body Accelerations in Real and Immersive Environments. Annals of Biomedical Engineering, 2022, 50, 575.	2.5	0
81	Postural Sway Characteristics Are Affected by Alzheimer's Disease. , 2021, 2021, 7219-7222.		0
82	Analysis of Temporal Pattern of Swallowing Mechanism. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2006, , .	0.5	0
83	Automated Extraction of Swallowing Sounds Using a Wavelet-Based Filter. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2006, , .	0.5	0
84	Apnea Detection by Acoustical Means. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2006, , .	0.5	0