

Azadeh Yadollahi

List of Publications by Year in descending order

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Version: 2024-02-01

83
papers

1,510
citations

361296

20
h-index

377752

34
g-index

85
all docs

85
docs citations

85
times ranked

1467
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.	1.6	111
2	Effects of exercise training on sleep apnoea in patients with coronary artery disease: a randomised trial. European Respiratory Journal, 2016, 48, 142-150.	3.1	97
3	A Robust Method for Estimating Respiratory Flow Using Tracheal Sounds Entropy. IEEE Transactions on Biomedical Engineering, 2006, 53, 662-668.	2.5	77
4	Sleep-Disordered Breathing Is Associated With Recurrent Ischemic Stroke. Stroke, 2019, 50, 571-576.	1.0	75
5	Night-to-night Variability in Obstructive Sleep Apnea Severity: Relationship to Overnight Rostral Fluid Shift. Journal of Clinical Sleep Medicine, 2015, 11, 149-156.	1.4	65
6	Addressing Reduced Laboratory-Based Pulmonary Function Testing During a Pandemic. Chest, 2020, 158, 2502-2510.	0.4	63
7	A Robust Method for Heart Sounds Localization Using Lung Sounds Entropy. IEEE Transactions on Biomedical Engineering, 2006, 53, 497-502.	2.5	61
8	Effect of Ultrafiltration on Sleep Apnea and Sleep Structure in Patients with End-Stage Renal Disease. American Journal of Respiratory and Critical Care Medicine, 2015, 191, 1287-1294.	2.5	61
9	Automatic breath and snore sounds classification from tracheal and ambient sounds recordings. Medical Engineering and Physics, 2010, 32, 985-990.	0.8	52
10	A Randomized, Double Crossover Study to Investigate the Influence of Saline Infusion on Sleep Apnea Severity in Men. Sleep, 2014, 37, 1699-1705.	0.6	50
11	Noncontact Vision-Based Cardiopulmonary Monitoring in Different Sleeping Positions. IEEE Journal of Biomedical and Health Informatics, 2017, 21, 1367-1375.	3.9	50
12	Acoustic obstructive sleep apnea detection. , 2009, 2009, 7110-3.		49
13	The effect of fluid overload on sleep apnoea severity in haemodialysis patients. European Respiratory Journal, 2017, 49, 1601789.	3.1	40
14	Acoustical Respiratory Flow. IEEE Engineering in Medicine and Biology Magazine, 2007, 26, 56-61.	1.1	39
15	Effect of below-the-knee compression stockings on severity of obstructive sleep apnea. Sleep Medicine, 2015, 16, 258-264.	0.8	37
16	Investigating the Dynamics of Supine Fluid Redistribution Within Multiple Body Segments Between Men and Women. Annals of Biomedical Engineering, 2015, 43, 2131-2142.	1.3	37
17	Sleep Apnea Severity Estimation From Tracheal Movements Using a Deep Learning Model. IEEE Access, 2020, 8, 22641-22649.	2.6	34
18	A non-contact vision-based system for respiratory rate estimation. , 2014, 2014, 2119-22.		27

#	ARTICLE	IF	CITATIONS
19	Effects of physical exercise training on nocturnal symptoms in asthma: Systematic review. PLoS ONE, 2018, 13, e0204953.	1.1	27
20	Respiratory Flow-Sound Relationship During Both Wakefulness and Sleep and Its Variation in Relation to Sleep Apnea. Annals of Biomedical Engineering, 2013, 41, 537-546.	1.3	25
21	The Effect of Anthropometric Variations on Acoustical Flow Estimation: Proposing a Novel Approach for Flow Estimation Without the Need for Individual Calibration. IEEE Transactions on Biomedical Engineering, 2011, 58, 1663-1670.	2.5	22
22	Automated Non-Contact Detection of Head and Body Positions During Sleep. IEEE Access, 2019, 7, 72826-72834.	2.6	22
23	Is Perioperative Fluid and Salt Balance a Contributing Factor in Postoperative Worsening of Obstructive Sleep Apnea?. Anesthesia and Analgesia, 2016, 122, 1335-1339.	1.1	21
24	Vision-Based Heart and Respiratory Rate Monitoring During Sleep - A Validation Study for the Population at Risk of Sleep Apnea. IEEE Journal of Translational Engineering in Health and Medicine, 2019, 7, 1-8.	2.2	21
25	Portable diagnosis of sleep apnea with the validation of individual event detection. Sleep Medicine, 2020, 69, 51-57.	0.8	18
26	Feature selection for swallowing sounds classification. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 3172-5.	0.5	17
27	Formant analysis of breath and snore sounds. , 2009, 2009, 2563-6.		17
28	Distinguishing Obstructive Versus Central Apneas in Infrared Video of Sleep Using Deep Learning: Validation Study. Journal of Medical Internet Research, 2020, 22, e17252.	2.1	15
29	A Subject-Specific Acoustic Model of the Upper Airway for Snoring Sounds Generation. Scientific Reports, 2016, 6, 25730.	1.6	14
30	The effect of sitting and calf activity on leg fluid and snoring. Respiratory Physiology and Neurobiology, 2017, 240, 1-7.	0.7	13
31	Contribution of rostral fluid shift to intrathoracic airway narrowing in asthma. Journal of Applied Physiology, 2017, 122, 809-816.	1.2	12
32	Reduced Baseline Airway Caliber Relates to Larger Airway Sensitivity to Rostral Fluid Shift in Asthma. Frontiers in Physiology, 2017, 8, 1012.	1.3	11
33	Comparison of flow-sound relationship for different features of tracheal sound. , 2008, 2008, 805-8.		10
34	Sleep Apnea Severity Estimation from Respiratory Related Movements Using Deep Learning. , 2019, 2019, 1601-1604.		10
35	Breath Analysis of Respiratory Flow using Tracheal Sounds. , 2007, , .		9
36	Snoring sound classification from respiratory signal. , 2016, 2016, 3215-3218.		9

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37	Effect of Ultrafiltration on Sleep Apnea and Cardiac Function in End-Stage Renal Disease. American Journal of Nephrology, 2020, 51, 139-146.	1.4	9
38	The Effect of Electrical Stimulation of the Calf Muscle on Leg Fluid Accumulation over a Long Period of Sitting. Scientific Reports, 2017, 7, 6055.	1.6	8
39	Acoustic Estimation of Neck Fluid Volume. Annals of Biomedical Engineering, 2014, 42, 2132-2142.	1.3	7
40	Factors predisposing to worsening of sleep apnea in response to fluid overload in men. Sleep Medicine, 2016, 23, 65-72.	0.8	7
41	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.	1.4	7
42	Effect of Simulated Obstructive Apnea on Thoracic Fluid Volume and Airway Narrowing in Asthma. American Journal of Respiratory and Critical Care Medicine, 2021, 203, 908-910.	2.5	7
43	Validating Automatic Diadochokinesis Analysis Methods Across Dysarthria Severity and Syllable Task in Amyotrophic Lateral Sclerosis. Journal of Speech, Language, and Hearing Research, 2022, 65, 940-953.	0.7	7
44	Measuring Minimum Critical Flow for Normal Breath Sounds. , 2005, 2005, 2726-9.		6
45	Effects of changing in the neck circumference during sleep on snoring sound characteristics. , 2015, 2015, 2235-8.		6
46	Relationship of Fluid Accumulation in the Neck to Sleep Structure in Men during Daytime Sleep. Journal of Clinical Sleep Medicine, 2016, 12, 1365-1371.	1.4	6
47	Leg fluid accumulation during prolonged sitting. , 2016, 2016, 4284-4287.		6
48	Detecting inspiratory flow limitation with temporal features of nasal airflow. Sleep Medicine, 2018, 48, 70-78.	0.8	6
49	Do apneas and hypopneas best reflect risk for poor outcomes after stroke?. Sleep Medicine, 2019, 63, 14-17.	0.8	6
50	<p>Sleep/Wakefulness Detection Using Tracheal Sounds and Movements</p>. Nature and Science of Sleep, 2020, Volume 12, 1009-1021.	1.4	6
51	Automatic Respiratory Phase Identification Using Tracheal Sounds and Movements During Sleep. Annals of Biomedical Engineering, 2021, 49, 1521-1533.	1.3	6
52	Relative tidal volume and respiratory airflow estimation using tracheal sound and movement during sleep. Journal of Sleep Research, 2021, 30, e13279.	1.7	6
53	Overnight Rostral Fluid Shifts Exacerbate Obstructive Sleep Apnea After Stroke. Stroke, 2021, 52, 3176-3183.	1.0	6
54	Noncontact Sleep Monitoring With Infrared Video Data to Estimate Sleep Apnea Severity and Distinguish Between Positional and Nonpositional Sleep Apnea: Model Development and Experimental Validation. Journal of Medical Internet Research, 2021, 23, e26524.	2.1	6

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55	Apnea Detection by Acoustical Means. , 2006, 2006, 4623-6.		5
56	Heart Rate Variability Responses of Individuals With and Without Saline-Induced Obstructive Sleep Apnea. Journal of Clinical Sleep Medicine, 2018, 14, 503-510.	1.4	5
57	Non-contact Apnea-Hypopnea Index Estimation using Near Infrared Video. , 2019, 2019, 792-795.		5
58	Sleep apnea severity based on estimated tidal volume and snoring features from tracheal signals. Journal of Sleep Research, 2022, 31, e13490.	1.7	5
59	On arithmetic misconceptions of spectral analysis of biological signals, in particular respiratory sounds. , 2009, 2009, 388-91.		4
60	Acoustical flow estimation in patients with obstructive sleep apnea during Sleep. , 2012, 2012, 3640-3.		4
61	Modeling sleep apnea severity using bioimpedance measurements. , 2015, 2015, 5998-6001.		4
62	Validating an Algorithm for Automatic Scoring of Inspiratory Flow Limitation Within a Range of Recording Settings. , 2018, 2018, 4788-4791.		4
63	Temporal shifts in fluid in pulmonary hypertension with and without sleep apnea. Journal of Sleep Research, 2019, 28, e12863.	1.7	4
64	Effect of calf muscle electrical stimulation on rostral fluid shift, snoring and obstructive sleep apnea. Sleep Medicine, 2019, 57, 36-42.	0.8	4
65	Ultrasonographic Measurement of Pharyngeal-Airway Dimension and Its Relationship with Obesity and Sleep-Disordered Breathing. Ultrasound in Medicine and Biology, 2020, 46, 2998-3007.	0.7	4
66	Relationship of respiratory sounds to alterations in the upper airway resistance. , 2012, 2012, 3648-51.		3
67	The effect of fluid overload by saline infusion on heart rate variability in men during sleep. , 2015, 2015, 2047-50.		3
68	Removing of Snoring Segments from Tracheal Breathing Sounds using a Wavelet-based Algorithm. , 2020, 2020, 764-767.		3
69	Apnea-hypopnea index (AHI) estimation using breathing Sounds, accelerometer and pulse oximeter. , 2019, , .		3
70	Predicting Neck Fluid Accumulation While Supine. Journal of Healthcare Engineering, 2015, 6, 673-690.	1.1	2
71	Effect of Trendelenburg position and lower-body positive pressure on neck fluid distribution. Journal of Applied Physiology, 2019, 126, 1259-1264.	1.2	2
72	Thoracic fluid accumulation and asthma symptoms: A new contributor mechanism. Porto Biomedical Journal, 2019, 4, e40.	0.4	2

#	ARTICLE	IF	CITATIONS
73	Reduced genioglossus muscle activity caused by fluid overload in anesthetized rats. <i>Physiological Reports</i> , 2020, 8, e14445.	0.7	2
74	Association of Obstructive Apnea with Thoracic Fluid Shift and Small Airways Narrowing in Asthma During Sleep. <i>Nature and Science of Sleep</i> , 2022, Volume 14, 891-899.	1.4	2
75	Robust Respiratory Flow Estimation Using Statistical Properties of Tracheal Sounds. , 2005, 2005, 4220-3.		1
76	Respiratory Sounds Compression. <i>IEEE Transactions on Biomedical Engineering</i> , 2008, 55, 1336-1343.	2.5	1
77	Variations in respiratory sounds in relation to fluid accumulation in the upper airways. , 2013, 2013, 2924-7.		1
78	Measurement of leg fluid volume using bioelectrical impedance (1156.14). <i>FASEB Journal</i> , 2014, 28, 1156.14.	0.2	1
79	Robust Respiratory Flow Estimation Using Statistical Properties of Tracheal Sounds. , 2005, 2005, 1106-9.		0
80	Investigating CT Imaging of the Pharyngeal Airway as a Predictor of the Effectiveness of Maxillomandibular Advancement to Treat Sleep Apnea. <i>Chest</i> , 2017, 152, A1087.	0.4	0
81	A novel approach for acoustic estimation of neck fluid volume between men and women. <i>Medical and Biological Engineering and Computing</i> , 2018, 56, 113-123.	1.6	0
82	Relationship between Vowel Sound Features and Pharyngeal Airway Cross-Sectional Area during Normal Breathing*. , 2020, 2020, 976-979.		0
83	Apnea Detection by Acoustical Means. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2006, , .	0.5	0