

James L Coyle

List of Publications by Year in descending order

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Version: 2024-02-01

55
papers

1,222
citations

361413

20
h-index

395702

33
g-index

55
all docs

55
docs citations

55
times ranked

858
citing authors

#	ARTICLE	IF	CITATIONS
1	Differentiation of Normal and Abnormal Airway Protection during Swallowing Using the Penetration-Aspiration Scale. <i>Dysphagia</i> , 1999, 14, 228-232.	1.8	251
2	Deep Belief Networks for Electroencephalography: A Review of Recent Contributions and Future Outlooks. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2018, 22, 642-652.	6.3	81
3	A comparative analysis of DBSCAN, K-means, and quadratic variation algorithms for automatic identification of swallows from swallowing accelerometry signals. <i>Computers in Biology and Medicine</i> , 2015, 59, 10-18.	7.0	58
4	Dysphagia Screening: Contributions of Cervical Auscultation Signals and Modern Signal-Processing Techniques. <i>IEEE Transactions on Human-Machine Systems</i> , 2015, 45, 465-477.	3.5	56
5	A comparative analysis of swallowing accelerometry and sounds during saliva swallows. <i>BioMedical Engineering OnLine</i> , 2015, 14, 3.	2.7	49
6	Cervical Auscultation Synchronized with Images from Endoscopy Swallow Evaluations. <i>Dysphagia</i> , 2007, 22, 290-298.	1.8	48
7	Automatic hyoid bone detection in fluoroscopic images using deep learning. <i>Scientific Reports</i> , 2018, 8, 12310.	3.3	44
8	Non-invasive identification of swallows via deep learning in high resolution cervical auscultation recordings. <i>Scientific Reports</i> , 2020, 10, 8704.	3.3	37
9	Decoding human swallowing via electroencephalography: a state-of-the-art review. <i>Journal of Neural Engineering</i> , 2015, 12, 051001.	3.5	33
10	Neck sensor-supported hyoid bone movement tracking during swallowing. <i>Royal Society Open Science</i> , 2019, 6, 181982.	2.4	30
11	Computational Deglutition: Using Signal- and Image-Processing Methods to Understand Swallowing and Associated Disorders [Life Sciences]. <i>IEEE Signal Processing Magazine</i> , 2019, 36, 138-146.	5.6	29
12	Upper Esophageal Sphincter Opening Segmentation With Convolutional Recurrent Neural Networks in High Resolution Cervical Auscultation. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2021, 25, 493-503.	6.3	29
13	A statistical analysis of cervical auscultation signals from adults with unsafe airway protection. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2016, 13, 7.	4.6	26
14	Dysphagia and its effects on swallowing sounds and vibrations in adults. <i>BioMedical Engineering OnLine</i> , 2018, 17, 69.	2.7	26
15	Deep learning for classification of normal swallows in adults. <i>Neurocomputing</i> , 2018, 285, 1-9.	5.9	25
16	Tracking Hyoid Bone Displacement During Swallowing Without Videofluoroscopy Using Machine Learning of Vibratory Signals. <i>Dysphagia</i> , 2021, 36, 259-269.	1.8	25
17	Detection of Swallow Kinematic Events From Acoustic High-Resolution Cervical Auscultation Signals in Patients With Stroke. <i>Archives of Physical Medicine and Rehabilitation</i> , 2019, 100, 501-508.	0.9	24
18	High-Resolution Cervical Auscultation Signal Features Reflect Vertical and Horizontal Displacements of the Hyoid Bone During Swallowing. <i>IEEE Journal of Translational Engineering in Health and Medicine</i> , 2019, 7, 1-9.	3.7	22

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19	The Association of High Resolution Cervical Auscultation Signal Features With Hyoid Bone Displacement During Swallowing. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2019, 27, 1810-1816.	4.9	21
20	Tele-Dysphagia Management: An Opportunity for Prevention, Cost-Savings and Advanced Training. <i>International Journal of Telerehabilitation</i> , 2012, 4, 41-46.	1.8	20
21	Anatomical Directional Dissimilarities in Tri-axial Swallowing Accelerometry Signals. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2017, 25, 447-458.	4.9	20
22	The Prediction of Risk of Penetration/Aspiration Via Hyoid Bone Displacement Features. <i>Dysphagia</i> , 2020, 35, 66-72.	1.8	20
23	Functional connectivity patterns of normal human swallowing: difference among various viscosity swallows in normal and chin-tuck head positions. <i>Brain Research</i> , 2016, 1652, 158-169.	2.2	17
24	A fast algorithm for vertex-frequency representations of signals on graphs. <i>Signal Processing</i> , 2017, 131, 483-491.	3.7	17
25	A Preliminary Investigation of Whether HRCA Signals Can Differentiate Between Swallows from Healthy People and Swallows from People with Neurodegenerative Diseases. <i>Dysphagia</i> , 2021, 36, 635-643.	1.8	17
26	Estimation of laryngeal closure duration during swallowing without invasive X-rays. <i>Future Generation Computer Systems</i> , 2021, 115, 610-618.	7.5	17
27	A comparison between swallowing sounds and vibrations in patients with dysphagia. <i>Computer Methods and Programs in Biomedicine</i> , 2017, 144, 179-187.	4.7	16
28	Characteristics of Dry Chin-Tuck Swallowing Vibrations and Sounds. <i>IEEE Transactions on Biomedical Engineering</i> , 2015, 62, 2456-2464.	4.2	14
29	How Closely do Machine Ratings of Duration of UES Opening During Videofluoroscopy Approximate Clinician Ratings Using Temporal Kinematic Analyses and the MBSimP?. <i>Dysphagia</i> , 2021, 36, 707-718.	1.8	14
30	Influence of attention and bolus volume on brain organization during swallowing. <i>Brain Structure and Function</i> , 2018, 223, 955-964.	2.3	13
31	Differences in brain networks during consecutive swallows detected using an optimized vertex-frequency algorithm. <i>Neuroscience</i> , 2017, 344, 113-123.	2.3	12
32	High-Resolution Cervical Auscultation and Data Science: New Tools to Address an Old Problem. <i>American Journal of Speech-Language Pathology</i> , 2020, 29, 992-1000.	1.8	12
33	Automatic Estimation of Laryngeal Vestibule Closure Duration Using High-Resolution Cervical Auscultation Signals. <i>Perspectives of the ASHA Special Interest Groups</i> , 2020, 5, 1647-1656.	0.8	10
34	A matched dual-tree wavelet denoising for tri-axial swallowing vibrations. <i>Biomedical Signal Processing and Control</i> , 2016, 27, 112-121.	5.7	9
35	Characterizing functional connectivity patterns during saliva swallows in different head positions. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2015, 12, 61.	4.6	8
36	Mansoura Fiberoptic Endoscopic Evaluation of Swallowing Residue Rating Scale (MFRRS): An Anatomically Based Tool – A Preliminary Study. <i>Folia Phoniatrica Et Logopaedica</i> , 2021, 73, 478-490.	1.1	7

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37	A generalized equation approach for hyoid bone displacement and penetration aspiration scale analysis. SN Applied Sciences, 2021, 3, 1.	2.9	6
38	Characterizing Swallows From People With Neurodegenerative Diseases Using High-Resolution Cervical Auscultation Signals and Temporal and Spatial Swallow Kinematic Measurements. Journal of Speech, Language, and Hearing Research, 2021, 64, 3416-3431.	1.6	6
39	Automatic annotation of cervical vertebrae in videofluoroscopy images via deep learning. Medical Image Analysis, 2021, 74, 102218.	11.6	6
40	Understanding differences between healthy swallows and penetration-aspiration swallows via compressive sensing of tri-axial swallowing accelerometry signals. , 2014, 9190, 91090M.		5
41	Correlating Tri-Accelerometer Swallowing Vibrations and Hyoid Bone Movement in Patients With Dysphagia. , 2016, , .		5
42	Anterior-posterior distension of maximal upper esophageal sphincter opening is correlated with high-resolution cervical auscultation signal features. Physiological Measurement, 2021, 42, 035002.	2.1	5
43	Establishing Reference Values for Temporal Kinematic Swallow Events Across the Lifespan in Healthy Community Dwelling Adults Using High-Resolution Cervical Auscultation. Dysphagia, 2022, 37, 664-675.	1.8	5
44	Improving Non-Invasive Aspiration Detection With Auxiliary Classifier Wasserstein Generative Adversarial Networks. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 1263-1272.	6.3	5
45	ARTIFICIAL INTELLIGENCE AND DYSPHAGIA: NOVEL SOLUTIONS TO OLD PROBLEMS. Arquivos De Gastroenterologia, 2020, 57, 343-346.	0.8	4
46	A Preliminary Investigation of Similarities of High Resolution Cervical Auscultation Signals Between Thin Liquid Barium and Water Swallows. IEEE Journal of Translational Engineering in Health and Medicine, 2022, 10, 1-9.	3.7	4
47	Cervical Vertebral Height Approximates Hyoid Displacement in Videofluoroscopic Images of Healthy Adults. Dysphagia, 2022, 37, 1689-1696.	1.8	4
48	How Important Is Randomization of Swallows During Kinematic Analyses of Swallow Function?. American Journal of Speech-Language Pathology, 2020, 29, 1650-1654.	1.8	3
49	Characterizing Effortful Swallows from Healthy Community Dwelling Adults Across the Lifespan Using High-Resolution Cervical Auscultation Signals and MBSImP Scores: A Preliminary Study. Dysphagia, 2022, 37, 1103-1111.	1.8	2
50	The effects of compressive sensing on extracted features from tri-axial swallowing accelerometry signals. , 2016, 9857, .		1
51	Developing Viscosity Modelling for Traditional Liquids in Egypt. Folia Phoniatrica Et Logopaedica, 2018, 70, 37-43.	1.1	1
52	Exercise for Better ALS Management?. ASHA Leader, 2012, 17, .	0.1	1
53	Letter to the Editor Regarding "Metade-glutition? Rate of Aspiration-Related Events in Healthy Females Using a Novel Data Collection App": Perspectives of the ASHA Special Interest Groups, 0, , 1-3.	0.8	1
54	Temporal Sequence of Laryngeal Vestibule Closure and Reopening is Associated With Airway Protection. Laryngoscope, 0, , .	2.0	1

#	ARTICLE	IF	CITATIONS
55	The Safety, Tolerability, and Impact of Respiratory-Swallow Coordination Training and Expiratory Muscle Strength Training on Pulmonary, Cough, and Swallow Function Surrogates in Amyotrophic Lateral Sclerosis. Perspectives of the ASHA Special Interest Groups, 2020, 5, 1603-1615.	0.8	0