

# Jan RUSZ

## List of Publications by Year in descending order

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Version: 2024-02-01

94  
papers

3,172  
citations

186265

28  
h-index

175258

52  
g-index

96  
all docs

96  
docs citations

96  
times ranked

2343  
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantitative acoustic measurements for characterization of speech and voice disorders in early untreated Parkinson's disease. <i>Journal of the Acoustical Society of America</i> , 2011, 129, 350-367.	1.1	347
2	Automated analysis of connected speech reveals early biomarkers of Parkinson's disease in patients with rapid eye movement sleep behaviour disorder. <i>Scientific Reports</i> , 2017, 7, 12.	3.3	245
3	Imprecise vowel articulation as a potential early marker of Parkinson's disease: Effect of speaking task. <i>Journal of the Acoustical Society of America</i> , 2013, 134, 2171-2181.	1.1	175
4	Automatic detection of Parkinson's disease in running speech spoken in three different languages. <i>Journal of the Acoustical Society of America</i> , 2016, 139, 481-500.	1.1	151
5	Biomarkers of conversion to $\alpha$ -synucleinopathy in isolated rapid-eye-movement sleep behaviour disorder. <i>Lancet Neurology</i> , The, 2021, 20, 671-684.	10.2	116
6	Automatic Evaluation of Articulatory Disorders in Parkinson's Disease. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , 2014, 22, 1366-1378.	5.8	115
7	Speech disorders reflect differing pathophysiology in Parkinson's disease, progressive supranuclear palsy and multiple system atrophy. <i>Journal of Neurology</i> , 2015, 262, 992-1001.	3.6	115
8	Characterization Methods for the Detection of Multiple Voice Disorders: Neurological, Functional, and Laryngeal Diseases. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2015, 19, 1820-1828.	6.3	96
9	Guidelines for Speech Recording and Acoustic Analyses in Dysarthrias of Movement Disorders. <i>Movement Disorders</i> , 2021, 36, 803-814.	3.9	83
10	Smartphone Allows Capture of Speech Abnormalities Associated With High Risk of Developing Parkinson's Disease. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2018, 26, 1495-1507.	4.9	77
11	Speech Biomarkers in Rapid Eye Movement Sleep Behavior Disorder and Parkinson Disease. <i>Annals of Neurology</i> , 2021, 90, 62-75.	5.3	73
12	Distinct patterns of imprecise consonant articulation among Parkinson's disease, progressive supranuclear palsy and multiple system atrophy. <i>Brain and Language</i> , 2017, 165, 1-9.	1.6	69
13	Quantitative assessment of motor speech abnormalities in idiopathic rapid eye movement sleep behaviour disorder. <i>Sleep Medicine</i> , 2016, 19, 141-147.	1.6	68
14	Evaluation of speech impairment in early stages of Parkinson's disease: a prospective study with the role of pharmacotherapy. <i>Journal of Neural Transmission</i> , 2013, 120, 319-329.	2.8	65
15	Characteristics of motor speech phenotypes in multiple sclerosis. <i>Multiple Sclerosis and Related Disorders</i> , 2018, 19, 62-69.	2.0	58
16	Spatial and temporal characteristics of gait as outcome measures in multiple sclerosis (EDSS 0 to 6.5). <i>Journal of NeuroEngineering and Rehabilitation</i> , 2015, 12, 14.	4.6	53
17	Effects of dopaminergic replacement therapy on motor speech disorders in Parkinson's disease: longitudinal follow-up study on previously untreated patients. <i>Journal of Neural Transmission</i> , 2016, 123, 379-387.	2.8	51
18	Detection of persons with Parkinson's disease by acoustic, vocal, and prosodic analysis. , 2011, , .		46

#	ARTICLE	IF	CITATIONS
19	Characteristics and occurrence of speech impairment in Huntington's disease: possible influence of antipsychotic medication. <i>Journal of Neural Transmission</i> , 2014, 121, 1529-1539.	2.8	45
20	A forced gaussians based methodology for the differential evaluation of Parkinson's Disease by means of speech processing. <i>Biomedical Signal Processing and Control</i> , 2019, 48, 205-220.	5.7	44
21	Objective Acoustic Quantification of Phonatory Dysfunction in Huntington's Disease. <i>PLoS ONE</i> , 2013, 8, e65881.	2.5	43
22	Effect of dopaminergic medication on speech dysfluency in Parkinson's disease: a longitudinal study. <i>Journal of Neural Transmission</i> , 2015, 122, 1135-1142.	2.8	42
23	Hypernasality associated with basal ganglia dysfunction: evidence from Parkinson's disease and Huntington's disease. <i>PeerJ</i> , 2016, 4, e2530.	2.0	42
24	Phonatory Dysfunction as a Preclinical Symptom of Huntington Disease. <i>PLoS ONE</i> , 2014, 9, e113412.	2.5	41
25	Acoustic assessment of voice and speech disorders in Parkinson's disease through quick vocal test. <i>Movement Disorders</i> , 2011, 26, 1951-1952.	3.9	40
26	Accuracy of Rating Scales and Clinical Measures for Screening of Rapid Eye Movement Sleep Behavior Disorder and for Predicting Conversion to Parkinson's Disease and Other Synucleinopathies. <i>Frontiers in Neurology</i> , 2018, 9, 376.	2.4	39
27	Horizontal and vertical eye movement metrics: What is important?. <i>Clinical Neurophysiology</i> , 2013, 124, 2216-2229.	1.5	38
28	Automated speech analysis in early untreated Parkinson's disease: Relation to gender and dopaminergic transporter imaging. <i>European Journal of Neurology</i> , 2022, 29, 81-90.	3.3	33
29	Defining Speech Subtypes in De Novo Parkinson Disease. <i>Neurology</i> , 2021, 97, e2124-e2135.	1.1	33
30	Tests of manual dexterity and speed in Parkinson's disease: Not all measure the same. <i>Parkinsonism and Related Disorders</i> , 2016, 28, 118-123.	2.2	32
31	Automatic Evaluation of Speech Rhythm Instability and Acceleration in Dysarthrias Associated with Basal Ganglia Dysfunction. <i>Frontiers in Bioengineering and Biotechnology</i> , 2015, 3, 104.	4.1	31
32	Towards an automatic monitoring of the neurological state of Parkinson's patients from speech. , 2016, , .		31
33	Distinctive speech signature in cerebellar and parkinsonian subtypes of multiple system atrophy. <i>Journal of Neurology</i> , 2019, 266, 1394-1404.	3.6	29
34	Fast vergence eye movements are disrupted in Parkinson's disease: A video-oculography study. <i>Parkinsonism and Related Disorders</i> , 2015, 21, 797-799.	2.2	27
35	Relations of non-motor symptoms and dopamine transporter binding in REM sleep behavior disorder. <i>Scientific Reports</i> , 2019, 9, 15463.	3.3	26
36	Acoustic Investigation of Stress Patterns in Parkinson's Disease. <i>Journal of Voice</i> , 2014, 28, 129.e1-129.e8.	1.5	25

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37	High-Accuracy Voice-Based Classification Between Patients With Parkinson's Disease and Other Neurological Diseases May Be an Easy Task With Inappropriate Experimental Design. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2017, 25, 1319-1321.	4.9	25
38	Glottal Source Analysis of Voice Deficits in Newly Diagnosed Drug-naïve Patients with Parkinson's Disease: Correlation Between Acoustic Speech Characteristics and Non-Speech Motor Performance. <i>Biomedical Signal Processing and Control</i> , 2020, 57, 101818.	5.7	25
39	From discourse to pathology: Automatic identification of Parkinson's disease patients via morphological measures across three languages. <i>Cortex</i> , 2020, 132, 191-205.	2.4	24
40	Acoustic Tracking of Pitch, Modal, and Subharmonic Vibrations of Vocal Folds in Parkinson's Disease and Parkinsonism. <i>IEEE Access</i> , 2019, 7, 150339-150354.	4.2	23
41	A distinct variant of mixed dysarthria reflects parkinsonism and dystonia due to ephedrone abuse. <i>Journal of Neural Transmission</i> , 2014, 121, 655-664.	2.8	22
42	Validation of freely-available pitch detection algorithms across various noise levels in assessing speech captured by smartphone in Parkinson's disease. <i>Biomedical Signal Processing and Control</i> , 2020, 58, 101831.	5.7	22
43	Distinct patterns of speech disorder in early-onset and late-onset de-novo Parkinson's disease. <i>Npj Parkinson's Disease</i> , 2021, 7, 98.	5.3	19
44	Speech disorder and vocal tremor in postural instability/gait difficulty and tremor dominant subtypes of Parkinson's disease. <i>Journal of Neural Transmission</i> , 2020, 127, 1295-1304.	2.8	18
45	Characterizing vocal tremor in progressive neurological diseases via automated acoustic analyses. <i>Clinical Neurophysiology</i> , 2020, 131, 1155-1165.	1.5	18
46	Restoration of Guyton's diagram for regulation of the circulation as a basis for quantitative physiological model development. <i>Physiological Research</i> , 2010, 59, 897-908.	0.9	18
47	Eye movements in idiopathic rapid eye movement sleep behaviour disorder: High antisaccade error rate reflects prefrontal cortex dysfunction. <i>Journal of Sleep Research</i> , 2019, 28, e12742.	3.2	17
48	The Atlas of Physiology and Pathophysiology: Web-based multimedia enabled interactive simulations. <i>Computer Methods and Programs in Biomedicine</i> , 2011, 104, 143-153.	4.7	16
49	Brain volumetric correlates of dysarthria in multiple sclerosis. <i>Brain and Language</i> , 2019, 194, 58-64.	1.6	16
50	Slowed articulation rate is associated with information processing speed decline in multiple sclerosis: A pilot study. <i>Journal of Clinical Neuroscience</i> , 2019, 65, 28-33.	1.5	16
51	Automated Assessment of Oral Diadochokinesis in Multiple Sclerosis Using a Neural Network Approach: Effect of Different Syllable Repetition Paradigms. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2020, 28, 32-41.	4.9	16
52	Eye Movements in Ephedrone-Induced Parkinsonism. <i>PLoS ONE</i> , 2014, 9, e104784.	2.5	15
53	Comparative analysis of speech impairment and upper limb motor dysfunction in Parkinson's disease. <i>Journal of Neural Transmission</i> , 2017, 124, 463-470.	2.8	15
54	Convolutional Neural Networks and a Transfer Learning Strategy to Classify Parkinson's Disease from Speech in Three Different Languages. <i>Lecture Notes in Computer Science</i> , 2019, , 697-706.	1.3	14

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55	Diffusion tensor imaging in the characterization of multiple system atrophy. <i>Neuropsychiatric Disease and Treatment</i> , 2016, Volume 12, 2181-2187.	2.2	13
56	Comparison of Automated Acoustic Methods for Oral Diadochokinesis Assessment in Amyotrophic Lateral Sclerosis. <i>Journal of Speech, Language, and Hearing Research</i> , 2020, 63, 3453-3460.	1.6	13
57	Instrumental analysis of finger tapping reveals a novel early biomarker of parkinsonism in idiopathic rapid eye movement sleep behaviour disorder. <i>Sleep Medicine</i> , 2020, 75, 45-49.	1.6	12
58	Validation of cepstral peak prominence in assessing early voice changes of Parkinson's disease: Effect of speaking task and ambient noise. <i>Journal of the Acoustical Society of America</i> , 2021, 150, 4522-4533.	1.1	12
59	Bayesian changepoint detection for the automatic assessment of fluency and articulatory disorders. <i>Speech Communication</i> , 2013, 55, 178-189.	2.8	11
60	Effect of Ageing on Acoustic Characteristics of Voice Pitch and Formants in Czech Vowels. <i>Journal of Voice</i> , 2021, 35, 931.e21-931.e33.	1.5	11
61	Reproducibility of Voice Analysis with Machine Learning. <i>Movement Disorders</i> , 2021, 36, 1282-1283.	3.9	10
62	Transfer learning helps to improve the accuracy to classify patients with different speech disorders in different languages. <i>Pattern Recognition Letters</i> , 2021, 150, 272-279.	4.2	10
63	Study protocol for using a smartphone application to investigate speech biomarkers of Parkinson's disease and other synucleinopathies: SMARTSPEECH. <i>BMJ Open</i> , 2022, 12, e059871.	1.9	10
64	Does Cognitive Impairment Influence Motor Speech Performance in De Novo Parkinson's Disease?. <i>Movement Disorders</i> , 2021, 36, 2980-2982.	3.9	9
65	Speech changes after coordinative training in patients with cerebellar ataxia: a pilot study. <i>Neurological Sciences</i> , 2016, 37, 293-296.	1.9	7
66	Dualistic effect of pallidal deep brain stimulation on motor speech disorders in dystonia. <i>Brain Stimulation</i> , 2018, 11, 896-903.	1.6	7
67	Dysarthria enhancement mechanism under external clear speech instruction in Parkinson's disease, progressive supranuclear palsy and multiple system atrophy. <i>Journal of Neural Transmission</i> , 2020, 127, 905-914.	2.8	7
68	Short-term effect of dopaminergic medication on speech in early-stage Parkinson's disease. <i>Npj Parkinson's Disease</i> , 2022, 8, 22.	5.3	7
69	Towards Disease-specific Speech Markers for Differential Diagnosis in Parkinsonism. , 2019, , .		5
70	Dysprosody in Isolated REM Sleep Behavior Disorder with Impaired Olfaction but Intact Nigrostriatal Pathway. <i>Movement Disorders</i> , 2021, , .	3.9	5
71	Automated video-based assessment of facial bradykinesia in de-novo Parkinson's disease. <i>Npj Digital Medicine</i> , 2022, 5, .	10.9	5
72	Linear Classification in Speech-Based Objective Differential Diagnosis of Parkinsonism. , 2018, , .		4

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73	Why patients with multiple sclerosis perceive improvement of gait during treatment with natalizumab?. Journal of Neural Transmission, 2019, 126, 731-737.	2.8	3
74	Eye movement abnormalities are associated with brainstem atrophy in Wilson disease. Neurological Sciences, 2020, 41, 1097-1103.	1.9	3
75	Instrumental Analysis of Gait Abnormalities in Idiopathic Rapid Eye Movement Sleep Behavior Disorder. Movement Disorders, 2020, 35, 193-195.	3.9	3
76	3D visual cueing shortens the double support phase of the gait cycle in patients with advanced Parkinson's disease treated with DBS of the STN. PLoS ONE, 2020, 15, e0244676.	2.5	3
77	Toward Automated Articulation Rate Analysis via Connected Speech in Dysarthrias. Journal of Speech, Language, and Hearing Research, 2022, 65, 1386-1401.	1.6	3
78	Linguistic Abnormalities in Isolated Rapid Eye Movement Sleep Behavior Disorder. Movement Disorders, 2022, 37, 1872-1882.	3.9	3
79	Automatic detection of voice onset time in dysarthric speech. , 2015, , .		2
80	GABA spectra and remote distractor effect in progressive supranuclear palsy: A pilot study. Revue Neurologique, 2017, 173, 225-229.	1.5	2
81	Dysprosody Differentiate Between Parkinson's Disease, Progressive Supranuclear Palsy, and Multiple System Atrophy. , 0, , .		2
82	Schola Ludus in Modern Garment: Use of Web Multimedia Simulation in Biomedical Teaching. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 413-418.	0.4	1
83	Effect of pallidal deep-brain stimulation on articulation rate in dystonia. Neurological Sciences, 2019, 40, 869-873.	1.9	1
84	Reader response: Motor speech patterns in Huntington disease. Neurology, 2020, 95, 607-608.	1.1	1
85	Effect of reading passage length on quantitative acoustic speech assessment in Czech-speaking individuals with Parkinson's disease treated with subthalamic nucleus deep brain stimulation. Journal of the Acoustical Society of America, 2021, 149, 3366-3374.	1.1	1
86	Acoustic Evaluation of Nasality in Cerebellar Syndromes. , 0, , .		1
87	Increased Transferrin Sialylation Predicts Phenoconversion in Isolated REM Sleep Behavior Disorder. Movement Disorders, 2022, , .	3.9	1
88	J17 Could Antipsychotic Medication Influence Speech In Huntington's Disease?. Journal of Neurology, Neurosurgery and Psychiatry, 2014, 85, A71-A71.	1.9	0
89	C16...Hoarseness can be found in vocalisations of both human as well as genetically modified minipig model of huntington's disease. Journal of Neurology, Neurosurgery and Psychiatry, 2016, 87, A32.2-A32.	1.9	0
90	K26...Specific in-patient rehabilitation improves postural and gait instability in huntington's disease. Journal of Neurology, Neurosurgery and Psychiatry, 2016, 87, A88.1-A88.	1.9	0

#	ARTICLE	IF	CITATIONS
91	Reply to: "Fostering Voice Objective Analysis in Patients With Movement Disorders"; Movement Disorders, 2021, 36, 1042-1043.	3.9	0
92	H44...The effects of a specific inpatient multidisciplinary rehabilitation program on postural and gait stability in huntington's disease- a pilot study. , 2018, , .		0
93	Inpatient multidisciplinary rehabilitation program for postural and gait stability in Huntington's disease " a pilot study. Ceska A Slovenska Neurologie A Neurochirurgie, 2019, 82/115, 301-308.	0.1	0
94	Is Gait Dysfunction a Prominent Sign of Isolated Rapid Eye Movement Sleep Behavior Disorder?. Movement Disorders, 2022, 37, 1575-1576.	3.9	0