

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	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
2	Increased Transferrin Sialylation Predicts Phenoconversion in Isolated REM Sleep Behavior Disorder. <i>Movement Disorders</i> , 2022, , .	3.9	1
3	Short-term effect of dopaminergic medication on speech in early-stage Parkinsonâ€™s disease. <i>Npj Parkinson's Disease</i> , 2022, 8, 22.	5.3	7
4	Toward Automated Articulation Rate Analysis via Connected Speech in Dysarthrias. <i>Journal of Speech, Language, and Hearing Research</i> , 2022, 65, 1386-1401.	1.6	3
5	Is Gait Dysfunction a Prominent Sign of Isolated Rapid Eye Movement Sleep Behavior Disorder?. <i>Movement Disorders</i> , 2022, 37, 1575-1576.	3.9	0
6	Study protocol for using a smartphone application to investigate speech biomarkers of Parkinsonâ€™s disease and other synucleinopathies: SMARTSPEECH. <i>BMJ Open</i> , 2022, 12, e059871.	1.9	10
7	Linguistic Abnormalities in Isolated Rapid Eye Movement Sleep Behavior Disorder. <i>Movement Disorders</i> , 2022, 37, 1872-1882.	3.9	3
8	Automated video-based assessment of facial bradykinesia in de-novo Parkinsonâ€™s disease. <i>Npj Digital Medicine</i> , 2022, 5, .	10.9	5
9	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
10	Reply to: "Fostering Voice Objective Analysis in Patients With Movement Disorders". <i>Movement Disorders</i> , 2021, 36, 1042-1043.	3.9	0
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	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. <i>Journal of the Acoustical Society of America</i> , 2021, 149, 3366-3374.	1.1	1
13	Reproducibility of Voice Analysis with Machine Learning. <i>Movement Disorders</i> , 2021, 36, 1282-1283.	3.9	10
14	Biomarkers of conversion to Î±-synucleinopathy in isolated rapid-eye-movement sleep behaviour disorder. <i>Lancet Neurology</i> , The, 2021, 20, 671-684.	10.2	116
15	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
16	Guidelines for Speech Recording and Acoustic Analyses in Dysarthrias of Movement Disorders. <i>Movement Disorders</i> , 2021, 36, 803-814.	3.9	83
17	Defining Speech Subtypes in De Novo Parkinson Disease. <i>Neurology</i> , 2021, 97, e2124-e2135.	1.1	33
18	Distinct patterns of speech disorder in early-onset and late-onset de-novo Parkinsonâ€™s disease. <i>Npj Parkinson's Disease</i> , 2021, 7, 98.	5.3	19

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19	Dysprosody in Isolated REM Sleep Behavior Disorder with Impaired Olfaction but Intact Nigrostriatal Pathway. <i>Movement Disorders</i> , 2021, , .	3.9	5
20	Does Cognitive Impairment Influence Motor Speech Performance in De Novo Parkinson's Disease?. <i>Movement Disorders</i> , 2021, 36, 2980-2982.	3.9	9
21	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
22	Eye movement abnormalities are associated with brainstem atrophy in Wilson disease. <i>Neurological Sciences</i> , 2020, 41, 1097-1103.	1.9	3
23	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
24	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
25	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
26	Reader response: Motor speech patterns in Huntington disease. <i>Neurology</i> , 2020, 95, 607-608.	1.1	1
27	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
28	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
29	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
30	Characterizing vocal tremor in progressive neurological diseases via automated acoustic analyses. <i>Clinical Neurophysiology</i> , 2020, 131, 1155-1165.	1.5	18
31	Instrumental Analysis of Gait Abnormalities in Idiopathic Rapid Eye Movement Sleep Behavior Disorder. <i>Movement Disorders</i> , 2020, 35, 193-195.	3.9	3
32	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
33	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
34	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. <i>PLoS ONE</i> , 2020, 15, e0244676.	2.5	3
35	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
36	Towards Disease-specific Speech Markers for Differential Diagnosis in Parkinsonism. , 2019, , .		5

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37	Relations of non-motor symptoms and dopamine transporter binding in REM sleep behavior disorder. <i>Scientific Reports</i> , 2019, 9, 15463.	3.3	26
38	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
39	Brain volumetric correlates of dysarthria in multiple sclerosis. <i>Brain and Language</i> , 2019, 194, 58-64.	1.6	16
40	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
41	Why patients with multiple sclerosis perceive improvement of gait during treatment with natalizumab?. <i>Journal of Neural Transmission</i> , 2019, 126, 731-737.	2.8	3
42	Distinctive speech signature in cerebellar and parkinsonian subtypes of multiple system atrophy. <i>Journal of Neurology</i> , 2019, 266, 1394-1404.	3.6	29
43	Effect of pallidal deep-brain stimulation on articulation rate in dystonia. <i>Neurological Sciences</i> , 2019, 40, 869-873.	1.9	1
44	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
45	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
46	Inpatient multidisciplinary rehabilitation program for postural and gait stability in Huntington's disease - a pilot study. <i>Ceska A Slovenska Neurologie A Neurochirurgie</i> , 2019, 82/115, 301-308.	0.1	0
47	Dualistic effect of pallidal deep brain stimulation on motor speech disorders in dystonia. <i>Brain Stimulation</i> , 2018, 11, 896-903.	1.6	7
48	Characteristics of motor speech phenotypes in multiple sclerosis. <i>Multiple Sclerosis and Related Disorders</i> , 2018, 19, 62-69.	2.0	58
49	Linear Classification in Speech-Based Objective Differential Diagnosis of Parkinsonism. , 2018, , .		4
50	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
51	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
52	H44...The effects of a specific inpatient multidisciplinary rehabilitation program on postural and gait stability in huntington's disease- a pilot study. , 2018, , .		0
53	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
54	GABA spectra and remote distractor effect in progressive supranuclear palsy: A pilot study. <i>Revue Neurologique</i> , 2017, 173, 225-229.	1.5	2

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55	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
56	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
57	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
58	Diffusion tensor imaging in the characterization of multiple system atrophy. <i>Neuropsychiatric Disease and Treatment</i> , 2016, Volume 12, 2181-2187.	2.2	13
59	C16...Hoarseness can be found in vocalisations of both human as well as genetically modified minipig model of huntington's disease. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2016, 87, A32.2-A32.	1.9	0
60	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
61	Towards an automatic monitoring of the neurological state of Parkinson's patients from speech. , 2016, , .		31
62	K26...Specific in-patient rehabilitation improves postural and gait instability in huntington's disease. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2016, 87, A88.1-A88.	1.9	0
63	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
64	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
65	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
66	Speech changes after coordinative training in patients with cerebellar ataxia: a pilot study. <i>Neurological Sciences</i> , 2016, 37, 293-296.	1.9	7
67	Hypernasality associated with basal ganglia dysfunction: evidence from Parkinson's disease and Huntington's disease. <i>PeerJ</i> , 2016, 4, e2530.	2.0	42
68	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
69	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
70	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
71	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
72	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

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73	Characterization Methods for the Detection of Multiple Voice Disorders: Neurological, Functional, and Laryngeal Diseases. IEEE Journal of Biomedical and Health Informatics, 2015, 19, 1820-1828.	6.3	96
74	Automatic detection of voice onset time in dysarthric speech. , 2015, , .		2
75	Eye Movements in Ephedrone-Induced Parkinsonism. PLoS ONE, 2014, 9, e104784.	2.5	15
76	Phonatory Dysfunction as a Preclinical Symptom of Huntington Disease. PLoS ONE, 2014, 9, e113412.	2.5	41
77	A distinct variant of mixed dysarthria reflects parkinsonism and dystonia due to ephedrone abuse. Journal of Neural Transmission, 2014, 121, 655-664.	2.8	22
78	Acoustic Investigation of Stress Patterns in Parkinson's Disease. Journal of Voice, 2014, 28, 129.e1-129.e8.	1.5	25
79	Automatic Evaluation of Articulatory Disorders in Parkinson's Disease. IEEE/ACM Transactions on Audio Speech and Language Processing, 2014, 22, 1366-1378.	5.8	115
80	Characteristics and occurrence of speech impairment in Huntington's disease: possible influence of antipsychotic medication. Journal of Neural Transmission, 2014, 121, 1529-1539.	2.8	45
81	J17 Could Antipsychotic Medication Influence Speech In Huntington's Disease?. Journal of Neurology, Neurosurgery and Psychiatry, 2014, 85, A71-A71.	1.9	0
82	Evaluation of speech impairment in early stages of Parkinson's disease: a prospective study with the role of pharmacotherapy. Journal of Neural Transmission, 2013, 120, 319-329.	2.8	65
83	Horizontal and vertical eye movement metrics: What is important?. Clinical Neurophysiology, 2013, 124, 2216-2229.	1.5	38
84	Bayesian changepoint detection for the automatic assessment of fluency and articulatory disorders. Speech Communication, 2013, 55, 178-189.	2.8	11
85	Imprecise vowel articulation as a potential early marker of Parkinson's disease: Effect of speaking task. Journal of the Acoustical Society of America, 2013, 134, 2171-2181.	1.1	175
86	Objective Acoustic Quantification of Phonatory Dysfunction in Huntington's Disease. PLoS ONE, 2013, 8, e65881.	2.5	43
87	Detection of persons with Parkinson's disease by acoustic, vocal, and prosodic analysis. , 2011, , .		46
88	The Atlas of Physiology and Pathophysiology: Web-based multimedia enabled interactive simulations. Computer Methods and Programs in Biomedicine, 2011, 104, 143-153.	4.7	16
89	Acoustic assessment of voice and speech disorders in Parkinson's disease through quick vocal test. Movement Disorders, 2011, 26, 1951-1952.	3.9	40
90	Quantitative acoustic measurements for characterization of speech and voice disorders in early untreated Parkinson's disease. Journal of the Acoustical Society of America, 2011, 129, 350-367.	1.1	347

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91	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
92	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
93	Dysprosody Differentiate Between Parkinson's Disease, Progressive Supranuclear Palsy, and Multiple System Atrophy. , 0, , .		2
94	Acoustic Evaluation of Nasality in Cerebellar Syndromes. , 0, , .		1