Nobutaka Ono

List of Publications by Year
in descending order

183 papers	**2,840** citations	331670 **21** h-index	377865 **34** g-index
183 all docs	**183** docs citations	**183** times ranked	**1192** citing authors

#	Article	IF	Citations
1	Stable and fast update rules for independent vector analysis based on auxiliary function technique. , 2011, , .		243
2	Determined Blind Source Separation Unifying Independent Vector Analysis and Nonnegative Matrix Factorization. IEEE/ACM Transactions on Audio Speech and Language Processing, 2016, 24, 1626-1641.	5.8	232
3	Complex NMF: A new sparse representation for acoustic signals. , 2009, , .		115
4	The 2016 Signal Separation Evaluation Campaign. Lecture Notes in Computer Science, 2017, , 323-332.	1.3	81
5	Blind alignment of asynchronously recorded signals for distributed microphone array. , 2009, , .		80
6	Sparseness-Based 2CH BSS using the EM Algorithm in Reverberant Environment. , 2007, , .		61
7	A review of blind source separation methods: two converging routes to ILRMA originating from ICA and NMF. APSIPA Transactions on Signal and Information Processing, 2019, 8, .	3.3	60
8	Auxiliary-Function-Based Independent Component Analysis for Super-Gaussian Sources. Lecture Notes in Computer Science, 2010, , 165-172.	1.3	55
9	Closed-Form and Near Closed-Form Solutions for TDOA-Based Joint Source and Sensor Localization. IEEE Transactions on Signal Processing, 2017, 65, 1207-1221.	5.3	50
10	Blind compensation of interchannel sampling frequency mismatch for ad hoc microphone array based on maximum likelihood estimation. Signal Processing, 2015, 107, 185-196.	3.7	49
11	Deeply Learned Filter Response Functions for Hyperspectral Reconstruction. , 2018, , .		49
12	Closed-Form and Near Closed-Form Solutions for TOA-Based Joint Source and Sensor Localization. IEEE Transactions on Signal Processing, 2016, 64, 4751-4766.	5.3	44
13	Independent Deeply Learned Matrix Analysis for Determined Audio Source Separation. IEEE/ACM Transactions on Audio Speech and Language Processing, 2019, 27, 1601-1615.	5.8	43
14	Melody line estimation in homophonic music audio signals based on temporal-variability of melodic source. , 2010, , .		42
15	The 2015 Signal Separation Evaluation Campaign. Lecture Notes in Computer Science, 2015, , 387-395.	1.3	42
16	Determined Blind Source Separation with Independent Low-Rank Matrix Analysis. Signals and Communication Technology, 2018, , 125-155.	0.5	42
17	Independent Vector Analysis with More Microphones Than Sources. , 2019, , .		41
18	Convergence-guaranteed multiplicative algorithms for nonnegative matrix factorization with &#x03B2;-divergence. , 2010, , .		39

#	Article	IF	Citations
19	Blind compensation of inter-channel sampling frequency mismatch with maximum likelihood estimation in STFT domain. , 2013, , .		38
20	Singing Voice Enhancement in Monaural Music Signals Based on Two-stage Harmonic/Percussive Sound Separation on Multiple Resolution Spectrograms. IEEE/ACM Transactions on Audio Speech and Language Processing, 2014, 22, 228-237.	5.8	37
21	Efficient multichannel nonnegative matrix factorization exploiting rank-1 spatial model. , 2015, , .		36
22	HMM-based approach for automatic chord detection using refined acoustic features. , 2010, , .		35
23	Generalized independent low-rank matrix analysis using heavy-tailed distributions for blind source separation. Eurasip Journal on Advances in Signal Processing, 2018, 2018, .	1.7	35
24	Single and Multiple ${ F}_{0}$ Contour Estimation Through Parametric Spectrogram Modeling of Speech in Noisy Environments. IEEE Transactions on Audio Speech and Language Processing, 2007, 15, 1135-1145.	3.2	32
25	An auxiliary-function approach to online independent vector analysis for real-time blind source separation. , 2014, , .		31
26	Quantification of speech and synchrony in the conversation of adults with autism spectrum disorder. PLoS ONE, 2019, 14, e0225377.	2.5	31
27	The 2013 Signal Separation Evaluation Campaign. , 2013, , .		30
28	Effect of a novel nasal oxytocin spray with enhanced bioavailability on autism: a randomized trial. Brain, 2022, 145, 490-499.	7.6	29
29	Bayesian nonparametric spectrogram modeling based on infinite factorial infinite hidden Markov model. , 2011, , .		28
30	Sleep Apnea Detection via Depth Video and Audio Feature Learning. IEEE Transactions on Multimedia, 2017, 19, 822-835.	7.2	28
31	Beyond Timbral Statistics: Improving Music Classification Using Percussive Patterns and Bass Lines. IEEE Transactions on Audio Speech and Language Processing, 2011, 19, 1003-1014.	3.2	27
32	Spatial Cepstrum as a Spatial Feature Using a Distributed Microphone Array for Acoustic Scene Analysis. IEEE/ACM Transactions on Audio Speech and Language Processing, 2017, 25, 1335-1343.	5.8	27
33	Nonnegative Matrix Factorization with Markov-Chained Bases for Modeling Time-Varying Patterns in Music Spectrograms. Lecture Notes in Computer Science, 2010, , 149-156.	1.3	24
34	Amplitude-based speech enhancement with nonnegative matrix factorization for asynchronous distributed recording. , 2014, , .		24
35	Independent Deeply Learned Matrix Analysis for Multichannel Audio Source Separation. , 2018, , .		24
36	Special issue on wireless acoustic sensor networks and ad hoc microphone arrays. Signal Processing, 2015, 107, 1-3.	3.7	22

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37	Blind Estimation of Locations and Time Offsets for Distributed Recording Devices. Lecture Notes in Computer Science, 2010, , 57-64.	1.3	22
38	Computational auditory induction as a missing-data model-fitting problem with Bregman divergence. Speech Communication, 2011, 53, 658-676.	2.8	21
39	Low-latency real-time blind source separation for hearing aids based on time-domain implementation of online independent vector analysis with truncation of non-causal components. , 2017, , .		19
40	Voice Liveness Detection for Speaker Verification based on a Tandem Single/Double-channel Pop Noise Detector. , 0, , .		19
41	Consistent Wiener Filtering: Generalized Time-Frequency Masking Respecting Spectrogram Consistency. Lecture Notes in Computer Science, 2010, , 89-96.	1.3	18
42	Designing the Wiener post-filter for diffuse noise suppression using imaginary parts of inter-channel cross-spectra. , 2010, , .		16
43	Relaxation of rank-1 spatial constraint in overdetermined blind source separation. , 2015, , .		16
44	Independent low-rank matrix analysis based on complex student's t-distribution for blind audio source separation. , 2017, , .		16
45	Independent Low-Rank Matrix Analysis Based on Time-Variant Sub-Gaussian Source Model for Determined Blind Source Separation. IEEE/ACM Transactions on Audio Speech and Language Processing, 2020, 28, 503-518.	5.8	16
46	Polyphonic Pitch Estimation and Instrument Identification by Joint Modeling of Sustained and Attack Sounds. IEEE Journal on Selected Topics in Signal Processing, 2011, 5, 1124-1132.	10.8	15
47	Diffuse Noise Suppression Using Crystal-Shaped Microphone Arrays. IEEE Transactions on Audio Speech and Language Processing, 2011, 19, 2101-2110.	3.2	15
48	User-guided independent vector analysis with source activity tuning. , 2012, , .		15
49	Harmonic/Percussive Sound Separation Based on Anisotropic Smoothness of Spectrograms. IEEE/ACM Transactions on Audio Speech and Language Processing, 2014, 22, 2059-2073.	5.8	15
50	Harmonic and Percussive Sound Separation and Its Application to MIR-Related Tasks. Studies in Computational Intelligence, 2010, , 213-236.	0.9	15
51	A Structure-Synthesis Image Inpainting Algorithm Based on Morphological Erosion Operation. , 2008, , .		14
52	Sonoloc. , 2018, , .		14
53	Meeting Recognition with Asynchronous Distributed Microphone Array Using Block-Wise Refinement of Mask-Based MVDR Beamformer. , 2018, , .		14
54	Time-frequency-bin-wise Switching of Minimum Variance Distortionless Response Beamformer for Underdetermined Situations. , 2019, , .		14

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55	Audio genre classification using percussive pattern clustering combined with timbral features. , 2009, , .		13
56	Robust Sensing of Approaching Vehicles Relying on Acoustic Cues. Sensors, 2014, 14, 9546-9561.	3.8	13
57	Numerical formulae for TOA-based microphone and source localization. , 2014, , .		13
58	Nonlinear speech enhancement by virtual increase of channels and maximum SNR beamformer. Eurasip Journal on Advances in Signal Processing, 2016, 2016, .	1.7	13
59	Multi-Talker Speech Recognition Based on Blind Source Separation with ad hoc Microphone Array Using Smartphones and Cloud Storage. , 0, , .		13
60	Surface orientation imager using three-phase amplitude-modulated illumination and correlation image sensor. , 2003, 5013, 95.		12
61	Multichannel harmonic and percussive component separation by joint modeling of spatial and spectral continuity. , 2011, , .		12
62	Optimizing frame analysis with non-integrer shift for sampling mismatch compensation of long recording. , 2013, , .		12
63	Blind source separation based on independent low-rank matrix analysis with sparse regularization for time-series activity. , 2017, , .		12
64	Meeting recognition with asynchronous distributed microphone array. , 2017, , .		12
65	Sub-Sample Time Delay Estimation via Auxiliary-Function-Based Iterative Updates. , 2019, , .		12
66	Acoustic Topic Model for Scene Analysis With Intermittently Missing Observations. IEEE/ACM Transactions on Audio Speech and Language Processing, 2019, 27, 367-382.	5.8	12
67	Joint Dereverberation and Separation With Iterative Source Steering. , 2021, , .		12
68	Low Latency and High Quality Two-Stage Human-Voice-Enhancement System for a Hose-Shaped Rescue Robot. Journal of Robotics and Mechatronics, 2017, 29, 198-212.	1.0	12
69	Isotropic Noise Suppression in the Power Spectrum Domain by Symmetric Microphone Arrays. , 2007, , .		11
70	Real-Time Orientation-Sensitive Magnetooptic Imager for Leakage Flux Inspection. IEEE Transactions on Magnetics, 2007, 43, 1044-1051.	2.1	11
71	Speech Spectrum Modeling for Joint Estimation of Spectral Envelope and Fundamental Frequency. IEEE Transactions on Audio Speech and Language Processing, 2010, 18, 1507-1516.	3.2	11
72	Infinite-state spectrum model for music signal analysis. , 2011, , .		11

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73	Speech enhancement with ad-hoc microphone array using single source activity. , 2013, , .		11
74	Bayesian Nonparametric Approach to Blind Separation of Infinitely Many Sparse Sources. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2013, E96.A, 1928-1937.	0.3	11
75	Reference-distance estimation approach for TDOA-based source and sensor localization. , 2015, , .		10
76	Comparison of Reference Microphone Selection Algorithms for Distributed Microphone Array Based Speech Enhancement in Meeting Recognition Scenarios. , 2018, , .		10
77	Bio-mimicry Sound Source Localization with Gimbal Diaphragm.. IEEJ Transactions on Sensors and Micromachines, 2003, 123, 92-97.	0.1	9
78	Five classes of crystal arrays for blind decorrelation of diffuse noise. , 2008, , .		9
79	Comparative evaluations of various harmonic/percussive sound separation algorithms based on anisotropic continuity of spectrogram. , 2012, , .		9
80	Outer-Product Hidden Markov Model and Polyphonic MIDI Score Following. Journal of New Music Research, 2014, 43, 183-201.	0.8	9
81	Robust TDOA-based joint source and microphone localization in a reverberant environment using medians of acceptable recovered TOAs. , 2016, , .		9
82	Estimation of Sampling Frequency Mismatch between Distributed Asynchronous Microphones under Existence of Source Movements with Stationary Time Periods Detection. , 2019, , .		9
83	Biomimicry Sound Source Localization with "Fishbone". IEEJ Transactions on Sensors and Micromachines, 2001, 121, 313-319.	0.1	8
84	A blind noise decorrelation approach with crystal arrays on designing post-filters for diffuse noise suppression. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , .	1.8	8
85	Traffic monitoring with ad-hoc microphone array. , 2014, , .		8
86	Acoustic scene analysis from acoustic event sequence with intermittent missing event. , 2015, , .		8
87	Experimental analysis of optimal window length for independent low-rank matrix analysis. , 2017, , .		8
88	Harmonic-Temporal-Timbral Clustering (HTTC) for the analysis of multi-instrument polyphonic music signals. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , .	1.8	7
89	A tandem connectionist model using combination of multi-scale spectro-temporal features for acoustic event detection. , 2012, , .		7
90	Spatial-feature-based acoustic scene analysis using distributed microphone array. , 2015, , .		7

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91	A Stochastic Temporal Model of Polyphonic MIDI Performance with Ornaments. Journal of New Music Research, 2015, 44, 287-304.	0.8	7
92	Discriminative and reconstructive basis training for audio source separation with semi-supervised nonnegative matrix factorization. , 2016, , .		7
93	Efficient initialization for nonnegative matrix factorization based on nonnegative independent component analysis. , 2016, , .		7
94	Time-Frequency-Bin-Wise Beamformer Selection and Masking for Speech Enhancement in Underdetermined Noisy Scenarios. , 2018, , .		7
95	Multipitch estimation by joint modeling of harmonic and transient sounds. , 2011, , .		6
96	Closed-form solution for TDOA-based joint source and sensor localization in two-dimensional space. , 2016, , .		6
97	Performance evaluation of acoustic scene classification using DNN-GMM and frame-concatenated acoustic features. , 2017, , .		6
98	Blinkies: Sound-to-light conversion sensors and their application to speech enhancement and sound source localization. , 2018, , .		6
99	Multi-modal Blind Source Separation with Microphones and Blinkies. , 2019, , .		6
100	Crystal-MUSIC: Accurate Localization of Multiple Sources in Diffuse Noise Environments Using Crystal-Shaped Microphone Arrays. Lecture Notes in Computer Science, 2010, , 81-88.	1.3	6
101	Reversible Audio Information Hiding Based on Integer DCT Coefficients with Adaptive Hiding Locations. Lecture Notes in Computer Science, 2014, , 376-389.	1.3	6
102	Orthogonally-Constrained Extraction of Independent Non-Gaussian Component from Non-Gaussian Background Without ICA. Lecture Notes in Computer Science, 2018, , 161-170.	1.3	6
103	Spatio-temporal phase-encoding profilometry using correlation image sensor. , 2008, , .		5
104	Rhythm map: Extraction of unit rhythmic patterns and analysis of rhythmic structure from music acoustic signals. , 2009, , .		5
105	Music mood classification by rhythm and bass-line unit pattern analysis. , 2010, , .		5
106	R-means localization: A simple iterative algorithm for range-difference-based source localization. , 2010, , .		5
107	Design of FPGA-based rapid prototype spectral subtraction for hands-free speech applications. , 2014, , .		5
108	Automatic music accompaniment allowing errors and arbitrary repeats and jumps. Proceedings of Meetings on Acoustics, 2014, , .	0.3	5

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109	Noise reduction using independent vector analysis and noise cancellation for a hose-shaped rescue robot. , 2016, , .		5
110	A computationally cheaper method for blind speech separation based on AuxIVA and incomplete demixing transform. , 2016, , .		5
111	Multiple far noise suppression in a real environment using transfer-function-gain NMF. , 2017, , .		5
112	Independent Low-Rank Matrix Analysis Based on Time-Variant Sub-Gaussian Source Model. , 2018, , .		5
113	Replay Attack Detection Using Generalized Cross-Correlation of Stereo Signal. , 2019, , .		5
114	Blinkies: Open Source Sound-to-Light Conversion Sensors for Large-Scale Acoustic Sensing and Applications. IEEE Access, 2020, 8, 67603-67616.	4.2	5
115	Single Channel Speech and Background Segregation Through Harmonic-Temporal Clustering. , 2007, , .		4
116	Auxiliary function approach to parameter estimation of constrained sinusoidal model for monaural speech separation. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , .	1.8	4
117	A sparse component model of source signals and its application to blind source separation. , 2010, , .		4
118	Blind Suppression of Nonstationary Diffuse Acoustic Noise Based on Spatial Covariance Matrix Decomposition. Journal of Signal Processing Systems, 2015, 79, 145-157.	2.1	4
119	A Real-time Audio-to-audio Karaoke Generation System for Monaural Recordings Based on Singing Voice Suppression and Key Conversion Techniques. Journal of Information Processing, 2016, 24, 470-482.	0.4	4
120	Abnormal sound detection by two microphones using virtual microphone technique. , 2017, , .		4
121	Reversible Audio Information Hiding for Tampering Detection and Localization Using Sample Scanning Method. Journal of Information Processing, 2017, 25, 469-476.	0.4	4
122	Acoustic scene classification based on generative model of acoustic spatial words for distributed microphone array. , 2017, , .		4
123	Performance evaluation of nonlinear speech enhancement based on virtual increase of channels in reverberant environments. , 2017, , .		4
124	CNN-based virtual microphone signal estimation for MPDR beamforming in underdetermined situations. , 2019, , .		4
125	Ego Noise Reduction for Hose-Shaped Rescue Robot Combining Independent Low-Rank Matrix Analysis and Multichannel Noise Cancellation. Lecture Notes in Computer Science, 2017, , 141-151.	1.3	4
126	Sound Source Localization with Front-Back Judgement by Two Microphones Asymmetrically Mounted on a Sphere. Journal of Multimedia, 2008, 3, .	0.3	4

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127	Time-Frequency-Bin-Wise Linear Combination of Beamformers for Distortionless Signal Enhancement. IEEE/ACM Transactions on Audio Speech and Language Processing, 2021, 29, 3461-3475.	5.8	4
128	Surface orientation imager with excluding capability of non-Lambertian reflectance. , 2005, 5665, 9.		3
129	Sound Source Localization by Asymmetrically Arrayed 2ch Microphones on a Sphere. , 2007, , .		3
130	An efficient lossless compression of multichannel time-series signals by MPEG-4 ALS. , 2009, , .		3
131	General algorithms for estimating spectrogram and transfer functions of target signal for blind suppression of diffuse noise. , 2013, , .		3
132	Self-localization and channel synchronization of smartphone arrays using sound emissions. , 2016, , .		3
133	Ego-noise reduction for a hose-shaped rescue robot using determined rank-1 multichannel nonnegative matrix factorization. , 2016, , .		3
134	Light transport component decomposition using multi-frequency illumination. , 2017, , .		3
135	Autism Spectrum Disorder Discrimination Based on Voice Activities Related to Fillers and Laughter. , 2019, , .		3
136	Improving replay attack detection by combination of spatial and spectral features. , 2019, , .		3
137	Blink-former: Light-aided beamforming for multiple targets enhancement. , 2019, , .		3
138	Rotation-Robust Beamforming Based on Sound Field Interpolation with Regularly Circular Microphone Array. , 2021, , .		3
139	Sound Source Localization Sensor with Mimicking Barn Owls. , 2001, , 1626-1629.		3
140	Real-Time Pitch Visualization with â€œBlinky" Sound-to-Light Conversion Device. Journal of Signal Processing, 2021, 25, 213-220.	0.3	3
141	Partial Differential Equation-Based Algorithm of Sound Source Localization with Finest Granularity in Both time and Frequency. , 2007, , .		2
142	Harmonic-Temporal Clustering of Speech for Single and Multiple F0 Contour Estimation in Noisy Environments. , 2007, , .		2
143	Analysis on blind decorrelation of isotropic noise correlation matrices based on symmetric decomposition. , 2009, , .		2
144	Analysis on speech characteristics for robust voice activity detection. , 2010, , .		2

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145	Concurrent Optimization of Context Clustering and GMM for Offline Handwritten Word Recognition Using HMM. , 2011, , .		2
146	Automatic video annotation via Hierarchical Topic Trajectory Model considering cross-modal correlations. , 2011, , .		2
147	Microphone multiplexing with diffuse noise model-based principal component analysis. , 2013, , .		2
148	Robust Audio Information Hiding Based on Stereo Phase Difference in Time-Frequency Domain. , 2014, , .		2
149	Robust Sensing of Approaching Vehicles Relying on Acoustic Cue. , 2014, , .		2
150	Diffuse noise suppression with asynchronous microphone array based on amplitude additivity model. , 2015, , .		2
151	Frequency-domain blind speech separation using incomplete de-mixing transform. , 2016, , .		2
152	Music signal separation using supervised NMF with all-pole-model-based discriminative basis deformation. , 2016, , .		2
153	Bilevel Optimization Using Stationary Point of Lower-Level Objective Function for Discriminative Basis Learning in Nonnegative Matrix Factorization. IEEE Signal Processing Letters, 2019, 26, 818-822.	3.6	2
154	Acoustic Sensing Based on Logarithmic Differential Decomposition (I): AM-FM Feature Extraction Based on Basis Waveforms Decomposition. IEEJ Transactions on Sensors and Micromachines, 1999, 119, 498-505.	0.1	2
155	Sampling Frequency Mismatch Estimation by Auxiliary-Function-Based Iterative Maximization of Double-Cross-Correlation. , 2021, , .		2
156	Note detection with dynamic bayesian networks as a postanalysis step for NMF-based multiple pitch estimation techniques. , 2009, , .		1
157	Generalized amplitude interpolation by β-divergence for virtual microphone array. , 2014, , .		1
158	On microphone arrangement for multichannel speech enhancement based on nonnegative matrix factorization in time-channel domain. , 2014, , .		1
159	Online acoustic scene analysis based on nonparametric Bayesian model. , 2016, , .		1
160	Sound source localization using binaural difference for hose-shaped rescue robot. , 2017, , .		1
161	Acoustic scene classification using asynchronous multichannel observations with different lengths. , 2017, , .		1
162	Maximum a posteriori estimation of spectral gain with harmonic-structure-based phase reconstruction for phase-aware speech enhancement. , 2018, , .		1

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163	Projection Back onto Filtered Observations for Speech Separation with Distributed Microphone Array. , 2019, , .		1
164	Acoustic Object Canceller Using Blind Compensation for Sampling Frequency Mismatch. , 2021, , .		1
165	Silicon Cochlear Michrophone "Fishbone" with Complex Filtering and Hilbert Transform Capability for Instantaneous Signal Detection and Analysis. , 2007, , .		0
166	Modulation analysis of speech through orthogonal FIR filterbank optimization. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , .	1.8	0
167	Adaptive prediction order scheme for AMR-WB+. , 2010, , .		0
168	Variable-length coding of ACELP gain using Entropy-Constrained VQ. , 2012, , .		0
169	Fast DNN training based on auxiliary function technique. , 2015, , .		0
170	Unsupervised detection of non-stationary segments based on single-basis non-negative matrix factorization for effective annotation. , 2016, , .		0
171	Evaluation of singing enthusiasm for songs with multiple phrases. , 2016, , .		0
172	Refinement of time-difference-of-arrival measurements via rank properties in two-dimensional space. , 2017, , .		0
173	Online sound structure analysis based on generative model of acoustic feature sequences. , 2017, , .		0
174	Flexible Harmonic Temporal Structure for Modeling Musical Instrument. Lecture Notes in Computer Science, 2010, , 416-418.	1.3	0
175	Automatic Discrimination of Soft Voice Onset Using Acoustic Features of Breathy Voicing. , 0, , .		0
176	Quantification of speech and synchrony in the conversation of adults with autism spectrum disorder. , 2019, 14, e0225377.		0
177	Quantification of speech and synchrony in the conversation of adults with autism spectrum disorder. , 2019, 14, e0225377.		0
178	Quantification of speech and synchrony in the conversation of adults with autism spectrum disorder. , 2019, 14, e0225377.		0
179	Quantification of speech and synchrony in the conversation of adults with autism spectrum disorder. , 2019, 14, e0225377.		0
180	Quantification of speech and synchrony in the conversation of adults with autism spectrum disorder. , 2019, 14, e0225377.		0

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181	Quantification of speech and synchrony in the conversation of adults with autism spectrum disorder. , 2019, 14, e0225377.		0
182	Instantaneous Linear Dimensionality Reduction of Multichannel Time-Series Signal for Array Signal Processing. , 2022, , .		0
183	Entrainment Analysis for Assessment of Autistic Speech Prosody Using Bottleneck Features of Deep Neural Network. , 2022, , .		0