Elia Formisano

List of Publications by Year
in descending order

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141 papers	13,555 citations	36691 53 h-index	27587 110 g-index
149 all docs	149 docs citations	149 times ranked	12769 citing authors

#	Article	IF	Citations
1	Cortical processing of distracting speech in noisy auditory scenes depends on perceptual demand. NeuroImage, 2021, 228, 117670.	2.1	11
2	Audiovisual Interactions Among Near-Threshold Oscillating Stimuli in the Far Periphery Are Phase-Dependent. Frontiers in Human Neuroscience, 2021, 15, 642341.	1.0	0
3	Cross-validation and permutations in MVPA: Validity of permutation strategies and power of cross-validation schemes. NeuroImage, 2021, 238, 118145.	2.1	33
4	Modulating Cortical Instrument Representations During Auditory Stream Segregation and Integration With Polyphonic Music. Frontiers in Neuroscience, 2021, 15, 635937.	1.4	4
5	Predicting neuronal response properties from hemodynamic responses in the auditory cortex. NeuroImage, 2021, 244, 118575.	2.1	4
6	Reorganization of Sound Location Processing in the Auditory Cortex of Blind Humans. Cerebral Cortex, 2020, 30, 1103-1116.	1.6	5
7	Neural Correlates of Phonetic Adaptation as Induced by Lexical and Audiovisual Context. Journal of Cognitive Neuroscience, 2020, 32, 2145-2158.	1.1	6
8	Behavioral effects of rhythm, carrier frequency and temporal cueing on the perception of sound sequences. PLoS ONE, 2020, 15, e0234251.	1.1	4
9	A 7 Tesla fMRI investigation of human tinnitus percept in cortical and subcortical auditory areas. NeuroImage: Clinical, 2020, 25, 102166.	1.4	32
10	Interleaved lexical and audiovisual information can retune phoneme boundaries. Attention, Perception, and Psychophysics, 2020, 82, 2018-2026.	0.7	4
11	Audiovisual and lexical cues do not additively enhance perceptual adaptation. Psychonomic Bulletin and Review, 2020, 27, 707-715.	1.4	6
12	Dynamic time-locking mechanism in the cortical representation of spoken words. ENeuro, 2020, 7, ENEURO.0475-19.2020.	0.9	5
13	Cortical encoding of speech enhances task-relevant acoustic information. Nature Human Behaviour, 2019, 3, 974-987.	6.2	29
14	Cortical mechanisms of spatial hearing. Nature Reviews Neuroscience, 2019, 20, 609-623.	4.9	51
15	No evidence for modulation of outer hair-cell function by 4-Hz transcranial alternating current stimulation. Brain Stimulation, 2019, 12, 806-808.	0.7	1
16	Accelerated estimation and permutation inference for ACE modeling. Human Brain Mapping, 2019, 40, 3488-3507.	1.9	19
17	Processing complexity increases in superficial layers of human primary auditory cortex. Scientific Reports, 2019, 9, 5502.	1.6	32
18	Methods for computing the maximum performance of computational models of fMRI responses. PLoS Computational Biology, 2019, 15, e1006397.	1.5	32

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19	The Dialog of Primary and Non-primary Auditory Cortex at the â€˜Cocktail Partyâ€™. Neuron, 2019, 104, 1029-1031.	3.8	1
20	Optimizing fMRI experimental design for MVPA-based BCI control: Combining the strengths of block and event-related designs. NeuroImage, 2019, 186, 369-381.	2.1	23
21	Homology and Specificity of Natural Sound-Encoding in Human and Monkey Auditory Cortex. Cerebral Cortex, 2019, 29, 3636-3650.	1.6	19
22	Laminar fMRI: Applications for cognitive neuroscience. NeuroImage, 2019, 197, 785-791.	2.1	140
23	Spectro-Temporal Processing in a Two-Stream Computational Model of Auditory Cortex. Frontiers in Computational Neuroscience, 2019, 13, 95.	1.2	13
24	Acoustic and higher-level representations of naturalistic auditory scenes in human auditory and frontal cortex. NeuroImage, 2018, 173, 472-483.	2.1	17
25	Anatomic & metabolic brain markers of the m.3243A>G mutation: A multi-parametric 7T MRI study. NeuroImage: Clinical, 2018, 18, 231-244.	1.4	15
26	Neural Entrainment to Speech Modulates Speech Intelligibility. Current Biology, 2018, 28, 161-169.e5.	1.8	165
27	Mapping Frequency-Specific Tone Predictions in the Human Auditory Cortex at High Spatial Resolution. Journal of Neuroscience, 2018, 38, 4934-4942.	1.7	12
28	Activity in Human Auditory Cortex Represents Spatial Separation Between Concurrent Sounds. Journal of Neuroscience, 2018, 38, 4977-4984.	1.7	9
29	Frequency-specific attentional modulation in human primary auditory cortex and midbrain. NeuroImage, 2018, 174, 274-287.	2.1	11
30	Sensitivity and specificity considerations for fMRI encoding, decoding, and mapping of auditory cortex at ultra-high field. NeuroImage, 2018, 164, 18-31.	2.1	52
31	The impact of ultra-high field MRI on cognitive and computational neuroimaging. NeuroImage, 2018, 168, 366-382.	2.1	93
32	Cortical processing of pitch: Model-based encoding and decoding of auditory fMRI responses to real-life sounds. NeuroImage, 2018, 180, 291-300.	2.1	40
33	Encoding of natural timbre dimensions in human auditory cortex. NeuroImage, 2018, 166, 60-70.	2.1	23
34	Cortical tracking of multiple streams outside the focus of attention in naturalistic auditory scenes. NeuroImage, 2018, 181, 617-626.	2.1	49
35	Evaluating the Columnar Stability of Acoustic Processing in the Human Auditory Cortex. Journal of Neuroscience, 2018, 38, 7822-7832.	1.7	22
36	Assessing Top-Down and Bottom-Up Contributions to Auditory Stream Segregation and Integration With Polyphonic Music. Frontiers in Neuroscience, 2018, 12, 121.	1.4	9

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37	Active Sound Localization Sharpens Spatial Tuning in Human Primary Auditory Cortex. Journal of Neuroscience, 2018, 38, 8574-8587.	1.7	28
38	Frequency-Selective Attention in Auditory Scenes Recruits Frequency Representations Throughout Human Superior Temporal Cortex. Cerebral Cortex, 2017, 27, bhw160.	1.6	35
39	Reconstructing the spectrotemporal modulations of real-life sounds from fMRI response patterns. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 4799-4804.	3.3	88
40	Effects of Cross-modal Asynchrony on Informational Masking in Human Cortex. Journal of Cognitive Neuroscience, 2017, 29, 980-990.	1.1	4
41	Multisensory Integration in Speech Processing: Neural Mechanisms of Cross-Modal Aftereffects. Innovations in Cognitive Neuroscience, 2017, , 105-127.	0.3	2
42	Localization of complex sounds is modulated by behavioral relevance and sound category. Journal of the Acoustical Society of America, 2017, 142, 1757-1773.	0.5	9
43	Reading-induced shifts of perceptual speech representations in auditory cortex. Scientific Reports, 2017, 7, 5143.	1.6	34
44	Tonotopic maps in human auditory cortex using arterial spin labeling. Human Brain Mapping, 2017, 38, 1140-1154.	1.9	16
45	Reproducibility and Reliability of Quantitative and Weighted T1 and T2â^— Mapping for Myelin-Based Cortical Parcellation at 7 Tesla. Frontiers in Neuroanatomy, 2016, 10, 112.	0.9	49
46	Attention Modulates the Auditory Cortical Processing of Spatial and Category Cues in Naturalistic Auditory Scenes. Frontiers in Neuroscience, 2016, 10, 254.	1.4	3
47	Opponent Coding of Sound Location (Azimuth) in Planum Temporale is Robust to Sound-Level Variations. Cerebral Cortex, 2016, 26, 450-464.	1.6	33
48	The effect of spatial resolution on decoding accuracy in fMRI multivariate pattern analysis. NeuroImage, 2016, 132, 32-42.	2.1	101
49	Developmental refinement of cortical systems for speech and voice processing. NeuroImage, 2016, 128, 373-384.	2.1	15
50	Processing of frequency and location in human subcortical auditory structures. Scientific Reports, 2015, 5, 17048.	1.6	54
51	Less noise, more activation: Multiband acquisition schemes for auditory functional MRI. Magnetic Resonance in Medicine, 2015, 74, 462-467.	1.9	23
52	Frequency preference and attention effects across cortical depths in the human primary auditory cortex. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 16036-16041.	3.3	153
53	Representation of pitch chroma by multi-peak spectral tuning in human auditory cortex. NeuroImage, 2015, 106, 161-169.	2.1	12
54	High-Resolution Mapping of Myeloarchitecture In Vivo: Localization of Auditory Areas in the Human Brain. Cerebral Cortex, 2015, 25, 3394-3405.	1.6	90

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55	4-Hz Transcranial Alternating Current Stimulation Phase Modulates Hearing. Brain Stimulation, 2015, 8, 777-783.	0.7	98
56	Functional MRI of the Auditory Cortex. Biological Magnetic Resonance, 2015, , 473-507.	0.4	0
57	How learning to abstract shapes neural sound representations. Frontiers in Neuroscience, 2014, 8, 132.	1.4	9
58	An anatomical and functional topography of human auditory cortical areas. Frontiers in Neuroscience, 2014, 8, 225.	1.4	184
59	Task-Dependent Decoding of Speaker and Vowel Identity from Auditory Cortical Response Patterns. Journal of Neuroscience, 2014, 34, 4548-4557.	1.7	92
60	Encoding of Natural Sounds at Multiple Spectral and Temporal Resolutions in the Human Auditory Cortex. PLoS Computational Biology, 2014, 10, e1003412.	1.5	187
61	Multivariate linear regression of highâ€dimensional fMRI data with multiple target variables. Human Brain Mapping, 2014, 35, 2163-2177.	1.9	15
62	Multiclass fMRI data decoding and visualization using supervised self-organizing maps. NeuroImage, 2014, 96, 54-66.	2.1	15
63	Brain-Based Translation: fMRI Decoding of Spoken Words in Bilinguals Reveals Language-Independent Semantic Representations in Anterior Temporal Lobe. Journal of Neuroscience, 2014, 34, 332-338.	1.7	85
64	Processing of Natural Sounds: Characterization of Multipeak Spectral Tuning in Human Auditory Cortex. Journal of Neuroscience, 2013, 33, 11888-11898.	1.7	73
65	Development from childhood to adulthood increases morphological and functional inter-individual variability in the right superior temporal cortex. NeuroImage, 2013, 83, 739-750.	2.1	40
66	Hemispheric Differences in the Voluntary Control of Spatial Attention: Direct Evidence for a Right-Hemispheric Dominance within Frontal Cortex. Journal of Cognitive Neuroscience, 2013, 25, 1332-1342.	1.1	57
67	Spatial organization of frequency preference and selectivity in the human inferior colliculus. Nature Communications, 2013, 4, 1386.	5.8	89
68	Escitalopram Decreases Cross-Regional Functional Connectivity within the Default-Mode Network. PLoS ONE, 2013, 8, e68355.	1.1	52
69	Learning of New Sound Categories Shapes Neural Response Patterns in Human Auditory Cortex. Journal of Neuroscience, 2012, 32, 13273-13280.	1.7	38
70	Hearing an Illusory Vowel in Noise: Suppression of Auditory Cortical Activity. Journal of Neuroscience, 2012, 32, 8024-8034.	1.7	39
71	Processing of Natural Sounds in Human Auditory Cortex: Tonotopy, Spectral Tuning, and Relation to Voice Sensitivity. Journal of Neuroscience, 2012, 32, 14205-14216.	1.7	158
72	Parametric Merging of MEG and fMRI Reveals Spatiotemporal Differences in Cortical Processing of Spoken Words and Environmental Sounds in Background Noise. Cerebral Cortex, 2012, 22, 132-143.	1.6	14

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73	Classification and Visualization of Multiclass fMRI Data Using Supervised Self-Organizing Maps. , 2012, , .		2
74	Pattern classification predicts individualsâ€™ responses to affective stimuli. Translational Neuroscience, 2012, 3, .	0.7	15
75	Pattern analysis of EEG responses to speech and voice: Influence of feature grouping. NeuroImage, 2012, 59, 3641-3651.	2.1	31
76	Integration of â€œwhatâ€•and â€œwhereâ€•in frontal cortex during visual imagery of scenes. NeuroImage, 2012, 60, 47-58.	2.1	51
77	Seeing patterns through the hemodynamic veil â€” The future of pattern-information fMRI. NeuroImage, 2012, 62, 1249-1256.	2.1	31
78	Of cats and women: Temporal dynamics in the right temporoparietal cortex reflect auditory categorical processing of vocalizations. NeuroImage, 2012, 62, 1877-1883.	2.1	7
79	Spin echo functional MRI in bilateral auditory cortices at 7T: An application of B1 shimming. NeuroImage, 2012, 63, 1313-1320.	2.1	22
80	Whole brain high-resolution functional imaging at ultra high magnetic fields: An application to the analysis of resting state networks. NeuroImage, 2011, 57, 1031-1044.	2.1	68
81	Brain activation during audiovisual exposure anticipates future perception of ambiguous speech. NeuroImage, 2011, 57, 1601-1607.	2.1	40
82	Predicting EEG single trial responses with simultaneous fMRI and Relevance Vector Machine regression. NeuroImage, 2011, 56, 826-836.	2.1	33
83	Predicting subject-driven actions and sensory experience in a virtual world with Relevance Vector Machine Regression of fMRI data. NeuroImage, 2011, 56, 651-661.	2.1	22
84	Recalibration of the auditory continuity illusion: Sensory and decisional effects. Hearing Research, 2011, 277, 152-162.	0.9	13
85	The identification of interacting networks in the brain using fMRI: Model selection, causality and deconvolution. NeuroImage, 2011, 58, 296-302.	2.1	195
86	Reply to Friston and David. NeuroImage, 2011, 58, 310-311.	2.1	32
87	The Sensory Consequences of Speaking: Parametric Neural Cancellation during Speech in Auditory Cortex. PLoS ONE, 2011, 6, e18307.	1.1	55
88	Differences between liking and wanting signals in the human brain and relations with cognitive dietary restraint and body mass index. American Journal of Clinical Nutrition, 2011, 94, 392-403.	2.2	96
89	Auditory Cortex Encodes the Perceptual Interpretation of Ambiguous Sound. Journal of Neuroscience, 2011, 31, 1715-1720.	1.7	110
90	Tracking Vocal Pitch through Noise: Neural Correlates in Nonprimary Auditory Cortex. Journal of Neuroscience, 2011, 31, 1479-1488.	1.7	7

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91	MDMA intoxication and verbal memory performance: a placebo-controlled pharmaco-MRI study. Journal of Psychopharmacology, 2011, 25, 1053-1061.	2.0	15
92	Multimodal imaging: an evaluation of univariate and multivariate methods for simultaneous EEG/fMRI. Magnetic Resonance Imaging, 2010, 28, 1104-1112.	1.0	31
93	Type of Featural Attention Differentially Modulates hMT⁺ Responses to Illusory Motion Aftereffects. Journal of Neurophysiology, 2009, 102, 3016-3025.	0.9	20
94	Involvement of Inferior Parietal Lobules in Prospective Memory Impairment during Acute MDMA (Ecstasy) Intoxication: An Event-Related fMRI Study. Neuropsychopharmacology, 2009, 34, 1641-1648.	2.8	39
95	Dynamic and Task-Dependent Encoding of Speech and Voice by Phase Reorganization of Cortical Oscillations. Journal of Neuroscience, 2009, 29, 1699-1706.	1.7	43
96	Anatomical brain connectivity and positive symptoms of schizophrenia: A diffusion tensor imaging study. Psychiatry Research - Neuroimaging, 2009, 174, 9-16.	0.9	118
97	Sound Categories Are Represented as Distributed Patterns in the Human Auditory Cortex. Current Biology, 2009, 19, 498-502.	1.8	158
98	Optimizing ICA in fMRI using information on spatial regularities of the sources. Magnetic Resonance Imaging, 2009, 27, 1110-1119.	1.0	14
99	Hearing Illusory Sounds in Noise: The Timing of Sensory-Perceptual Transformations in Auditory Cortex. Neuron, 2009, 64, 550-561.	3.8	72
100	The continuity illusion adapts to the auditory scene. Hearing Research, 2009, 247, 71-77.	0.9	23
101	Sustained attention and serotonin: a pharmacoâ€fMRI study. Human Psychopharmacology, 2008, 23, 221-230.	0.7	53
102	Visual target modulation of functional connectivity networks revealed by selfâ€organizing group ICA. Human Brain Mapping, 2008, 29, 1450-1461.	1.9	36
103	Multivariate analysis of fMRI time series: classification and regression of brain responses using machine learning. Magnetic Resonance Imaging, 2008, 26, 921-934.	1.0	113
104	The auditory continuity illusion: A parametric investigation and filter model. Perception & Psychophysics, 2008, 70, 1-12.	2.3	44
105	Taskâ€irrelevant visual letters interact with the processing of speech sounds in heteromodal and unimodal cortex. European Journal of Neuroscience, 2008, 28, 500-509.	1.2	51
106	High-resolution diffusion tensor imaging and tractography of the human optic chiasm at 9.4ÂT. NeuroImage, 2008, 39, 157-168.	2.1	92
107	Combining multivariate voxel selection and support vector machines for mapping and classification of fMRI spatial patterns. NeuroImage, 2008, 43, 44-58.	2.1	479
108	Dynamic Premotor-to-Parietal Interactions during Spatial Imagery. Journal of Neuroscience, 2008, 28, 8417-8429.	1.7	61

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109	"Who" Is Saying "What"? Brain-Based Decoding of Human Voice and Speech. Science, 2008, 322, 970-973.	6.0	501
110	Individual faces elicit distinct response patterns in human anterior temporal cortex. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 20600-20605.	3.3	464
111	Phase Coupling in a Cerebro-Cerebellar Network at 8â€“13 Hz during Reading. Cerebral Cortex, 2007, 17, 1476-1485.	1.6	135
112	Hearing Illusory Sounds in Noise: Sensory-Perceptual Transformations in Primary Auditory Cortex. Journal of Neuroscience, 2007, 27, 12684-12689.	1.7	93
113	Classification of fMRI independent components using IC-fingerprints and support vector machine classifiers. NeuroImage, 2007, 34, 177-194.	2.1	245
114	Topâ€“down task effects overrule automatic multisensory responses to letterâ€“sound pairs in auditory association cortex. NeuroImage, 2007, 36, 1345-1360.	2.1	111
115	Neural correlates of verbal feedback processing: An fMRI study employing overt speech. Human Brain Mapping, 2007, 28, 868-879.	1.9	179
116	Dissecting cognitive stages with time-resolved fMRI data: a comparison of fuzzy clustering and independent component analysis. Magnetic Resonance Imaging, 2007, 25, 860-868.	1.0	28
117	Analysis of functional image analysis contest (FIAC) data with brainvoyager QX: From single-subject to cortically aligned group general linear model analysis and self-organizing group independent component analysis. Human Brain Mapping, 2006, 27, 392-401.	1.9	960
118	The Effect of Temporal Asynchrony on the Multisensory Integration of Letters and Speech Sounds. Cerebral Cortex, 2006, 17, 962-974.	1.6	166
119	Mapping directed influence over the brain using Granger causality and fMRI. NeuroImage, 2005, 25, 230-242.	2.1	919
120	Independent component analysis of fMRI group studies by self-organizing clustering. NeuroImage, 2005, 25, 193-205.	2.1	315
121	The spatiotemporal pattern of auditory cortical responses during verbal hallucinations. NeuroImage, 2005, 27, 644-655.	2.1	144
122	Functional connectivity as revealed by spatial independent component analysis of fMRI measurements during rest. Human Brain Mapping, 2004, 22, 165-178.	1.9	486
123	Cortex-based independent component analysis of fMRI time series. Magnetic Resonance Imaging, 2004, 22, 1493-1504.	1.0	88
124	The Functional Neuroanatomy of Metrical Stress Evaluation of Perceived and Imagined Spoken Words. Cerebral Cortex, 2004, 15, 221-228.	1.6	95
125	What clocks tell us about the neural correlates of spatial imagery. European Journal of Cognitive Psychology, 2004, 16, 653-672.	1.3	11
126	Integration of Letters and Speech Sounds in the Human Brain. Neuron, 2004, 43, 271-282.	3.8	456

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127	In vivo mapping of functional domains and axonal connectivity in cat visual cortex using magnetic resonance imaging. Magnetic Resonance Imaging, 2003, 21, 1131-1140.	1.0	28
128	Investigating directed cortical interactions in time-resolved fMRI data using vector autoregressive modeling and Granger causality mapping. Magnetic Resonance Imaging, 2003, 21, 1251-1261.	1.0	599
129	Tracking cognitive processes with functional MRI mental chronometry. Current Opinion in Neurobiology, 2003, 13, 174-181.	2.0	110
130	FMRI of the auditory system: understanding the neural basis of auditory gestalt. Magnetic Resonance Imaging, 2003, 21, 1213-1224.	1.0	33
131	Real-time independent component analysis of fMRI time-series. NeuroImage, 2003, 20, 2209-2224.	2.1	112
132	Mirror-Symmetric Tonotopic Maps in Human Primary Auditory Cortex. Neuron, 2003, 40, 859-869.	3.8	421
133	Activity patterns in human motion-sensitive areas depend on the interpretation of global motion. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 13914-13919.	3.3	131
134	Tracking the Mind's Image in the Brain II. Neuron, 2002, 35, 195-204.	3.8	128
135	Tracking the Mind's Image in the Brain I. Neuron, 2002, 35, 185-194.	3.8	214
136	Coordinate and categorical judgements in spatial imagery. An fMRI study. Neuropsychologia, 2002, 40, 1666-1674.	0.7	82
137	Spatial independent component analysis of functional MRI time-series: To what extent do results depend on the algorithm used?. Human Brain Mapping, 2002, 16, 146-157.	1.9	119
138	Criteria for the rank ordering of fMRI independent components. NeuroImage, 2001, 13, 114.	2.1	4
139	Functional Fields in Human Auditory Cortex Revealed by Time-Resolved fMRI without Interference of EPI Noise. NeuroImage, 2001, 13, 328-338.	2.1	51
140	Matching Two Imagined Clocks: the Functional Anatomy of Spatial Analysis in the Absence of Visual Stimulation. Cerebral Cortex, 2000, 10, 473-481.	1.6	102
141	Activation of Heschlâ€™s Gyrus during Auditory Hallucinations. Neuron, 1999, 22, 615-621.	3.8	719