Vesa J Kiviniemi

List of Publications by Year
in descending order

120 papers	10,628 citations	134610 34 h-index	40945 97 g-index
123 all docs	123 docs citations	123 times ranked	13587 citing authors

#	Article	IF	Citations
1	Cardiovascular Pulsatility Increases in Visual Cortex Before Blood Oxygen Level Dependent Response During Stimulus. Frontiers in Neuroscience, 2022, 16, 836378.	1.4	5
2	Human NREM Sleep Promotes Brain-Wide Vasomotor and Respiratory Pulsations. Journal of Neuroscience, 2022, 42, 2503-2515.	1.7	33
3	Physiological instability is linked to mortality in primary central nervous system lymphoma: A caseâ€“control <scp>fMRI</scp> study. Human Brain Mapping, 2022, 43, 4030-4044.	1.9	3
4	Increased interictal synchronicity of respiratory related brain pulsations in epilepsy. Journal of Cerebral Blood Flow and Metabolism, 2022, 42, 1840-1853.	2.4	5
5	Atypical Interâ€Network Deactivation Associated With the Posterior Defaultâ€Mode Network in Autism Spectrum Disorder. Autism Research, 2021, 14, 248-264.	2.1	4
6	15 Years MR-encephalography. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2021, 34, 85-108.	1.1	13
7	Neural-level associations of non-verbal pragmatic comprehension in young Finnish autistic adults. International Journal of Circumpolar Health, 2021, 80, 1909333.	0.5	4
8	Exercise, diet, and cognition in a 4-year randomized controlled trial: Dose-Responses to Exercise Training (DRâ€™s EXTRA). American Journal of Clinical Nutrition, 2021, 113, 1428-1439.	2.2	21
9	Cardiovascular brain impulses in Alzheimerâ€™s disease. Brain, 2021, 144, 2214-2226.	3.7	38
10	Inverse correlation of fluctuations of cerebral blood and water concentrations in humans. European Physical Journal Plus, 2021, 136, 1.	1.2	6
11	Coâ€activation pattern alterations in autism spectrum disorderâ€“A volumeâ€wise hierarchical clustering fMRI study. Brain and Behavior, 2021, 11, e02174.	1.0	5
12	Spectral analysis of physiological brain pulsations affecting the <scp>BOLD</scp> signal. Human Brain Mapping, 2021, 42, 4298-4313.	1.9	25
13	The progression of disorder-specific brain pattern expression in schizophrenia over 9 years. NPJ Schizophrenia, 2021, 7, 32.	2.0	10
14	Lossy Compression Should Also Be Used in Functional MRI Research. IFMBE Proceedings, 2021, , 774-783.	0.2	0
15	P.0491 NREM sleep upregulates human brain pulsation detected by Ultrafast Magnetic Resonance Encephalography. European Neuropsychopharmacology, 2021, 53, S361-S362.	0.3	0
16	Dynamic lag analysis reveals atypical brain information flow in autism spectrum disorder. Autism Research, 2020, 13, 244-258.	2.1	10
17	Prenatal exposure to maternal cigarette smoking and structural properties of the human corpus callosum. NeuroImage, 2020, 209, 116477.	2.1	6
18	Symptomatic psychosis risk and physiological fluctuation in functional MRI data. Schizophrenia Research, 2020, 216, 339-346.	1.1	2

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19	The variability of functional MRI brain signal increases in Alzheimer's disease at cardiorespiratory frequencies. Scientific Reports, 2020, 10, 21559.	1.6	28
20	Respiratory-related brain pulsations are increased in epilepsyâ€”a two-centre functional MRI study. Brain Communications, 2020, 2, fcaa076.	1.5	15
21	The relationship of genetic susceptibilities for psychosis with physiological fluctuation in functional MRI data. Psychiatry Research - Neuroimaging, 2020, 297, 111031.	0.9	2
22	Comment to: â€œCluster failure revisited: Impact of first level design and physiological noise on cluster false positive ratesâ€. Human Brain Mapping, 2020, 41, 1112-1113.	1.9	1
23	Structural and functional alterations in the brain gray matter among first-degree relatives of schizophrenia patients: A multimodal meta-analysis of fMRI and VBM studies. Schizophrenia Research, 2020, 216, 14-23.	1.1	15
24	Lag Analysis of Fast fMRI Reveals Delayed Information Flow Between the Default Mode and Other Networks in Narcolepsy. Cerebral Cortex Communications, 2020, 1, tgaa073.	0.7	4
25	Brain response to facial expressions in adults with adolescent ADHD. Psychiatry Research - Neuroimaging, 2019, 292, 54-61.	0.9	4
26	Sampling Rate Effects on Resting State fMRI Metrics. Frontiers in Neuroscience, 2019, 13, 279.	1.4	53
27	3D Multi-Resolution Optical Flow Analysis of Cardiovascular Pulse Propagation in Human Brain. IEEE Transactions on Medical Imaging, 2019, 38, 2028-2036.	5.4	24
28	Spectral entropy indicates electrophysiological and hemodynamic changes in drug-resistant epilepsy â€“ A multimodal MREG study. NeuroImage: Clinical, 2019, 22, 101763.	1.4	21
29	Breath hold effect on cardiovascular brain pulsations â€“ A multimodal magnetic resonance encephalography study. Journal of Cerebral Blood Flow and Metabolism, 2019, 39, 2471-2485.	2.4	28
30	Maternal prepregnancy body mass index and offspring white matter microstructure: results from three birth cohorts. International Journal of Obesity, 2019, 43, 1995-2006.	1.6	20
31	Polygenic Risk Score for Schizophrenia and Face-Processing Network in Young Adulthood. Schizophrenia Bulletin, 2019, 45, 835-845.	2.3	7
32	Functional connectivity under six anesthesia protocols and the awake condition in rat brain. NeuroImage, 2018, 172, 9-20.	2.1	217
33	Assessment of the dynamics of human glymphatic system by nearâ€infrared spectroscopy. Journal of Biophotonics, 2018, 11, e201700123.	1.1	34
34	Altered physiological brain variation in drugâ€resistant epilepsy. Brain and Behavior, 2018, 8, e01090.	1.0	32
35	Fluctuations of the EEGâ€fMRI correlation reflect intrinsic strength of functional connectivity in default mode network. Journal of Neuroscience Research, 2018, 96, 1689-1698.	1.3	21
36	Antipsychotic and benzodiazepine use and brain morphology in schizophrenia and affective psychoses â€“ Systematic reviews and birth cohort study. Psychiatry Research - Neuroimaging, 2018, 281, 43-52.	0.9	3

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37	Cardiovascular effects of mannitol infusion: a comparison study performed on mouse and human. , 2018, , .		0
38	Combined spatiotemporal ICA (stICA) for continuous and dynamic lag structure analysis of MREG data. NeuroImage, 2017, 148, 352-363.	2.1	13
39	Structural properties of the human corpus callosum: Multimodal assessment and sex differences. NeuroImage, 2017, 152, 108-118.	2.1	62
40	Multimodal brain imaging with magnetoencephalography: A method for measuring blood pressure and cardiorespiratory oscillations. Scientific Reports, 2017, 7, 172.	1.6	13
41	Long-term antipsychotic and benzodiazepine use and brain volume changes in schizophrenia: The Northern Finland Birth Cohort 1966 study. Psychiatry Research - Neuroimaging, 2017, 266, 73-82.	0.9	21
42	Early adversity and brain response to faces in young adulthood. Human Brain Mapping, 2017, 38, 4470-4478.	1.9	10
43	Continuous blood pressure recordings simultaneously with functional brain imaging: studies of the glymphatic system. Proceedings of SPIE, 2017, , .	0.8	1
44	Cerebellar Activity in Young People with Familial Risk for PsychosisÂâ€”ÂThe Oulu Brain and Mind Study. European Psychiatry, 2017, 41, S628-S628.	0.1	0
45	The distribution of melanopsin (OPN4) protein in the human brain. Chronobiology International, 2017, 34, 37-44.	0.9	15
46	Real-time monitoring of human blood-brain barrier disruption. PLoS ONE, 2017, 12, e0174072.	1.1	45
47	Prototype of an opto-capacitive probe for non-invasive sensing cerebrospinal fluid circulation. , 2017, , .		0
48	Characterizing Variability of Modular Brain Connectivity with Constrained Principal Component Analysis. PLoS ONE, 2016, 11, e0168180.	1.1	6
49	Lifetime antipsychotic use and brain structures in schizophrenia and other psychoses â€“ 43-year study of the Northern Finland Birth Cohort 1966. European Psychiatry, 2016, 33, S100-S101.	0.1	0
50	Body mass index and brain white matter structure in young adults at risk for psychosis â€“ The Oulu Brain and Mind Study. Psychiatry Research - Neuroimaging, 2016, 254, 169-176.	0.9	13
51	Smoking in pregnancy, adolescent mental health and cognitive performance in young adult offspring: results from a matched sample within a Finnish cohort. BMC Psychiatry, 2016, 16, 430.	1.1	19
52	Brain structural changes in women and men during midlife. Neuroscience Letters, 2016, 615, 107-112.	1.0	15
53	Attention and Working Memory in Adolescents with Autism Spectrum Disorder: A Functional MRI Study. Child Psychiatry and Human Development, 2016, 47, 503-517.	1.1	18
54	Orthogonal Connectivity Factorization: Interpretable Decomposition of Variability in Correlation Matrices. Neural Computation, 2016, 28, 445-484.	1.3	7

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55	Ultra-fast magnetic resonance encephalography of physiological brain activity â€“ Glymphatic pulsation mechanisms?. Journal of Cerebral Blood Flow and Metabolism, 2016, 36, 1033-1045.	2.4	283
56	Brain structural deficits and working memory fMRI dysfunction in young adults who were diagnosed with ADHD in adolescence. European Child and Adolescent Psychiatry, 2016, 25, 529-538.	2.8	30
57	The Effect of Gray Matter ICA and Coefficient of Variation Mapping of BOLD Data on the Detection of Functional Connectivity Changes in Alzheimerâ€™s Disease and bvFTD. Frontiers in Human Neuroscience, 2016, 10, 680.	1.0	34
58	Temporally Synchronized Reversible Data Hiding of EEG to MREG. , 2016, , .		0
59	Detection of short-term activity avalanches in human brain default mode network with ultrafast MR encephalography. Frontiers in Human Neuroscience, 2015, 9, 448.	1.0	29
60	Reading, listening and memory-related brain activity in children with early-stage temporal lobe epilepsy of unknown cause-an fMRI study. European Journal of Paediatric Neurology, 2015, 19, 561-571.	0.7	6
61	Graph theory reveals hyper-functionality in visual cortices of Seasonal Affective Disorder patients. World Journal of Biological Psychiatry, 2015, 16, 123-134.	1.3	34
62	Reversible blind data hiding for verifying integrity and authenticating MRI and X-Ray images. , 2015, , .		3
63	Speeding up the file access of large compressed NIfTI neuroimaging data. , 2015, 2015, 654-7.		5
64	Central executive network in young people with familial risk for psychosis â€” The Oulu Brain and Mind Study. Schizophrenia Research, 2015, 161, 177-183.	1.1	11
65	Aberrant Functional Connectivity in the Default Mode and Central Executive Networks in Subjects with Schizophrenia Ã¢â‚¬â€œ A Whole-Brain Resting-State ICA Study. Frontiers in Psychiatry, 2015, 6, 26.	1.3	51
66	Longitudinal regional brain volume loss in schizophrenia: Relationship to antipsychotic medication and change in social function. Schizophrenia Research, 2015, 168, 297-304.	1.1	56
67	Functional mapping of dynamic happy and fearful facial expressions in young adults with familial risk for psychosis â€” Oulu Brain and Mind Study. Schizophrenia Research, 2015, 164, 242-249.	1.1	16
68	Cerebellar activity in young people with familial risk for psychosis â€” The Oulu Brain and Mind Study. Schizophrenia Research, 2015, 169, 46-53.	1.1	7
69	White matter structure in young adults with familial risk for psychosis â€“ The Oulu Brain and Mind Study. Psychiatry Research - Neuroimaging, 2015, 233, 388-393.	0.9	8
70	DTI abnormalities in adults with past history of attention deficit hyperactivity disorder: a tract-based spatial statistics study. Acta Radiologica, 2015, 56, 990-996.	0.5	13
71	Effects of bright light treatment on psychomotor speed in athletes. Frontiers in Physiology, 2014, 5, 184.	1.3	13
72	Personal Reflections on James S. Hyde. Brain Connectivity, 2014, 4, 631-635.	0.8	0

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73	Altered resting-state activity in seasonal affective disorder. Human Brain Mapping, 2014, 35, 161-172.	1.9	30
74	Light Propagation in NIR Spectroscopy of the Human Brain. IEEE Journal of Selected Topics in Quantum Electronics, 2014, 20, 289-298.	1.9	40
75	Infra-Slow EEG Fluctuations Are Correlated with Resting-State Network Dynamics in fMRI. Journal of Neuroscience, 2014, 34, 356-362.	1.7	181
76	Synchronous Multiscale Neuroimaging Environment for Critically Sampled Physiological Analysis of Brain Function: Hepta-Scan Concept. Brain Connectivity, 2014, 4, 677-689.	0.8	53
77	Brain structure in different psychosis risk groups in the Northern Finland 1986 Birth Cohort. Schizophrenia Research, 2014, 153, 143-149.	1.1	17
78	Longitudinal Changes in Total Brain Volume in Schizophrenia: Relation to Symptom Severity, Cognition and Antipsychotic Medication. PLoS ONE, 2014, 9, e101689.	1.1	92
79	Young people at risk for psychosis: case finding and sample characteristics of the Oulu Brain and Mind Study. Microbial Biotechnology, 2013, 7, 146-154.	0.9	26
80	Dynamics of the brain: Mathematical models and non-invasive experimental studies. European Physical Journal: Special Topics, 2013, 222, 2607-2622.	1.2	7
81	Default mode network in young people with familial risk for psychosis â€" The Oulu Brain and Mind Study. Schizophrenia Research, 2013, 143, 239-245.	1.1	19
82	Dynamic functional connectivity: Promise, issues, and interpretations. NeuroImage, 2013, 80, 360-378.	2.1	2,358
83	GroupICA dual regression analysis of resting state networks in a behavioral variant of frontotemporal dementia. Frontiers in Human Neuroscience, 2013, 7, 461.	1.0	62
84	Resting state fMRI reveals a default mode dissociation between retrosplenial and medial prefrontal subnetworks in ASD despite motion scrubbing. Frontiers in Human Neuroscience, 2013, 7, 802.	1.0	73
85	Effects of Apolipoprotein E Genotype on the Off-Line Memory Consolidation. PLoS ONE, 2012, 7, e51617.	1.1	5
86	Human Heart Pulse Wave Responses Measured Simultaneously at Several Sensor Placements by Two MR-Compatible Fibre Optic Methods. Journal of Sensors, 2012, 2012, 1-8.	0.6	14
87	Valence Scaling of Dynamic Facial Expressions is Altered in High-Functioning Subjects with Autism Spectrum Disorders: an fMRI Study. Journal of Autism and Developmental Disorders, 2012, 42, 1011-1024.	1.7	23
88	Connectivity disruptions in resting-state functional brain networks in children with temporal lobe epilepsy. Epilepsy Research, 2012, 100, 168-178.	0.8	47
89	Stimulating brain tissue with bright light alters functional connectivity in brain at the resting state. World Journal of Neuroscience, 2012, 02, 81-90.	0.1	23
90	Effects of repeatability measures on results of fMRI sICA: A study on simulated and real resting-state effects. NeuroImage, 2011, 56, 554-569.	2.1	29

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91	A Sliding Time-Window ICA Reveals Spatial Variability of the Default Mode Network in Time. Brain Connectivity, 2011, 1, 339-347.	0.8	251
92	A characteristic time sequence of epileptic activity in EEG during dynamic penicillin-induced focal epilepsyâ€"A preliminary study. Seizure: the Journal of the British Epilepsy Association, 2011, 20, 513-519.	0.9	12
93	Group-ICA Model Order Highlights Patterns of Functional Brain Connectivity. Frontiers in Systems Neuroscience, 2011, 5, 37.	1.2	113
94	Structural MRI in the 1986 Northern Finland Birth Cohort. International Clinical Psychopharmacology, 2011, 26, e140-e141.	0.9	0
95	Instrumentation and method for measuring NIR light absorbed in tissue during MR imaging in medical NIRS measurements. , 2011, , .		1
96	Alterations in regional homogeneity of baseline brain activity in pediatric temporal lobe epilepsy. Brain Research, 2011, 1373, 221-229.	1.1	75
97	Directional connectivity of resting state human fMRI data using cascaded ICA-PDC analysis. Acta Radiologica, 2011, 52, 1037-1042.	0.5	9
98	White matter in autism spectrum disorders â€“ evidence of impaired fiber formation. Acta Radiologica, 2011, 52, 1169-1174.	0.5	46
99	The effect of model order selection in group PICA. Human Brain Mapping, 2010, 31, 1207-1216.	1.9	324
100	Functional Mapping of Dynamic Happy and Fearful Facial Expression Processing in Adolescents. Brain Imaging and Behavior, 2010, 4, 164-176.	1.1	39
101	Alterations in regional homogeneity of resting-state brain activity in autism spectrum disorders. Brain Research, 2010, 1321, 169-179.	1.1	252
102	Correction of low-frequency physiological noise from the resting state BOLD fMRIâ€"Effect on ICA default mode analysis at 1.5 T. Journal of Neuroscience Methods, 2010, 186, 179-185.	1.3	29
103	Age-related differences in functional nodes of the brain cortex - a high model order group ICA study. Frontiers in Systems Neuroscience, 2010, 4, .	1.2	32
104	Toward discovery science of human brain function. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 4734-4739.	3.3	2,703
105	Mapping transient hyperventilation induced alterations with estimates of the multi-scale dynamics of BOLD signal.. Frontiers in Neuroinformatics, 2009, 3, 18.	1.3	15
106	Functional segmentation of the brain cortex using high model order group PICA. Human Brain Mapping, 2009, 30, 3865-3886.	1.9	343
107	Preoperative localization of the sensorimotor area using independent component analysis of resting-state fMRI. Magnetic Resonance Imaging, 2009, 27, 733-740.	1.0	110
108	Default mode network as revealed with multiple methods for resting-state functional MRI analysis. Journal of Neuroscience Methods, 2008, 171, 349-355.	1.3	142

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109	Persistent defaultâ€mode network connectivity during light sedation. Human Brain Mapping, 2008, 29, 839-847.	1.9	502
110	Endogenous brain fluctuations and diagnostic imaging. Human Brain Mapping, 2008, 29, 810-817.	1.9	47
111	Responses to inhaled bronchodilators in infancy are not linked with asthma in later childhood. Pediatric Pulmonology, 2006, 41, 420-427.	1.0	7
112	Effect of Brain Surgery on Auditory and Motor Cortex Activation: A Preliminary Functional Magnetic Resonance Imaging Study. Neurosurgery, 2005, 57, 249-256.	0.6	14
113	Midazolam sedation increases fluctuation and synchrony of the resting brain BOLD signal. Magnetic Resonance Imaging, 2005, 23, 531-537.	1.0	136
114	Separation of physiological very low frequency fluctuation from aliasing by switched sampling interval fMRI scans. Magnetic Resonance Imaging, 2005, 23, 41-46.	1.0	48
115	BOLD signal increase preceeds EEG spike activityâ€"a dynamic penicillin induced focal epilepsy in deep anesthesia. NeuroImage, 2005, 27, 715-724.	2.1	63
116	Comparison of methods for detecting nondeterministic BOLD fluctuation in fMRI. Magnetic Resonance Imaging, 2004, 22, 197-203.	1.0	52
117	BOLD-contrast functional MRI signal changes related to intermittent rhythmic delta activity in EEG during voluntary hyperventilationâ€"simultaneous EEG and fMRI study. NeuroImage, 2004, 22, 222-231.	2.1	25
118	Independent component analysis of nondeterministic fMRI signal sources. NeuroImage, 2003, 19, 253-260.	2.1	363
119	Slow vasomotor fluctuation in fMRI of anesthetized child brain. Magnetic Resonance in Medicine, 2000, 44, 373-378.	1.9	178
120	Slow vasomotor fluctuation in fMRI of anesthetized child brain. , 2000, 44, 373.		5