Osmo Tervonen

List of Publications by Year
in descending order

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93 papers	7,230 citations	53789 45 h-index	56717 83 g-index
93 all docs	93 docs citations	93 times ranked	7535 citing authors

#	Article	IF	Citations
1	A new immunometabolic perspective of intervertebral disc degeneration. Nature Reviews Rheumatology, 2022, 18, 47-60.	8.0	131
2	Breast Cancer Detection Feasibility with UWB Flexible Antennas on Wearable Monitoring Vest. , 2022, , .		1
3	T2â€weighted magnetic resonance imaging texture as predictor of low back pain: A texture analysisâ€based classification pipeline to symptomatic and asymptomatic cases. Journal of Orthopaedic Research, 2021, 39, 2428-2438.	2.3	11
4	Magnetic resonance imaging of avascular necrosis of the femoral head: predictive findings of total hip arthroplasty. Acta Radiologica Open, 2021, 10, 205846012110083.	0.6	5
5	Coâ€activation pattern alterations in autism spectrum disorderâ€"A volumeâ€wise hierarchical clustering fMRI study. Brain and Behavior, 2021, 11, e02174.	2.2	5
6	Magnetic resonance imaging-guided biopsies in children. Acta Radiologica Open, 2021, 10, 205846012110538.	0.6	2
7	The effect of interventions on appropriate use of lumbar spine radiograph and CT examinations in young adults and children: a three-year follow-up. Acta Radiologica, 2020, 61, 1042-1049.	1.1	3
8	Association Between Modic Changes and Low Back Pain in Middle Age. Spine, 2020, 45, 1360-1367.	2.0	40
9	The variability of functional MRI brain signal increases in Alzheimer's disease at cardiorespiratory frequencies. Scientific Reports, 2020, 10, 21559.	3.3	28
10	Does bone scintigraphy show Modic changes associated with increased bone turnover?. European Journal of Radiology Open, 2020, 7, 100222.	1.6	12
11	The Effect of Zoledronic Acid on Serum Biomarkers among Patients with Chronic Low Back Pain and Modic Changes in Lumbar Magnetic Resonance Imaging. Diagnostics, 2019, 9, 212.	2.6	10
12	Quantitative MRI of Human Cartilage In Vivo: Relationships with Arthroscopic Indentation Stiffness and Defect Severity. Cartilage, 2018, 9, 46-54.	2.7	12
13	Discrepancies in interpretation of night-time emergency computed tomography scans by radiology residents. Acta Radiologica Open, 2018, 7, 205846011880723.	0.6	4
14	Fluctuations of the EEGâ€fMRI correlation reflect intrinsic strength of functional connectivity in default mode network. Journal of Neuroscience Research, 2018, 96, 1689-1698.	2.9	21
15	Combined spatiotemporal ICA (stICA) for continuous and dynamic lag structure analysis of MREG data. NeuroImage, 2017, 148, 352-363.	4.2	13
16	Structure-symptom relationship with wide-area ultrasound scanning of knee osteoarthritis. Scientific Reports, 2017, 7, 44470.	3.3	18
17	The effect of zoledronic acid on type and volume of Modic changes among patients with low back pain. BMC Musculoskeletal Disorders, 2017, 18, 274.	1.9	17
18	Justification and active guideline implementation for spine radiography referrals in primary care. Acta Radiologica, 2017, 58, 586-592.	1.1	21

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19	Real-time monitoring of human blood-brain barrier disruption. PLoS ONE, 2017, 12, e0174072.	2.5	45
20	Comparison of Diagnostic Performance of Semi-Quantitative Knee Ultrasound and Knee Radiography with MRI: Oulu Knee Osteoarthritis Study. Scientific Reports, 2016, 6, 22365.	3.3	65
21	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.	1.8	13
22	Attention and Working Memory in Adolescents with Autism Spectrum Disorder: A Functional MRI Study. Child Psychiatry and Human Development, 2016, 47, 503-517.	1.9	18
23	Effect of display type, DICOM calibration and room illuminance in bitewing radiographs. Dentomaxillofacial Radiology, 2016, 45, 20150129.	2.7	13
24	Information about radiation dose and risks in connection with radiological examinations: what patients would like to know. European Radiology, 2016, 26, 436-443.	4.5	20
25	MRI-guidance in percutaneous core decompression of osteonecrosis of the femoral head. European Radiology, 2016, 26, 1180-1185.	4.5	16
26	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.	1.6	6
27	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.	2.6	51
28	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.	1.8	8
29	DTI abnormalities in adults with past history of attention deficit hyperactivity disorder: a tract-based spatial statistics study. Acta Radiologica, 2015, 56, 990-996.	1.1	13
30	Efficacy of zoledronic acid for chronic low back pain associated with Modic changes in magnetic resonance imaging. BMC Musculoskeletal Disorders, 2014, 15, 64.	1.9	38
31	MRI-guided laser ablation of neuroendocrine tumor hepatic metastases. Acta Radiologica Short Reports, 2014, 3, 204798161349975.	0.7	11
32	Altered resting-state activity in seasonal affective disorder. Human Brain Mapping, 2014, 35, 161-172.	3.6	30
33	Comparison of consumer grade, tablet and 6MP-displays: observer performance in detection of anatomical and pathological structures in panoramic radiographs. Oral Surgery, Oral Medicine, Oral Pathology and Oral Radiology, 2014, 118, 135-141.	0.4	15
34	Infra-Slow EEG Fluctuations Are Correlated with Resting-State Network Dynamics in fMRI. Journal of Neuroscience, 2014, 34, 356-362.	3.6	181
35	Longitudinal Changes in Total Brain Volume in Schizophrenia: Relation to Symptom Severity, Cognition and Antipsychotic Medication. PLoS ONE, 2014, 9, e101689.	2.5	92
36	Body mass index is associated with lumbar disc degeneration in young Finnish males: subsample of Northern Finland birth cohort study 1986. BMC Musculoskeletal Disorders, 2013, 14, 87.	1.9	39

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37	On applicability of PCA, voxel-wise variance normalization and dimensionality assumptions for sliding temporal window sICA in resting-state fMRI. Magnetic Resonance Imaging, 2013, 31, 1338-1348.	1.8	2
38	GroupICA dual regression analysis of resting state networks in a behavioral variant of frontotemporal dementia. Frontiers in Human Neuroscience, 2013, 7, 461.	2.0	62
39	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.	2.0	73
40	Association of Abdominal Obesity with Lumbar Disc Degeneration â€“ A Magnetic Resonance Imaging Study. PLoS ONE, 2013, 8, e56244.	2.5	81
41	Association of Modic Changes, SchmorlÊ¼s Nodes, Spondylolytic Defects, High-Intensity Zone Lesions, Disc Herniations, and Radial Tears With Low Back Symptom Severity Among Young Finnish Adults. Spine, 2012, 37, 1231-1239.	2.0	67
42	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.	1.1	14
43	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.	2.7	23
44	Connectivity disruptions in resting-state functional brain networks in children with temporal lobe epilepsy. Epilepsy Research, 2012, 100, 168-178.	1.6	47
45	Effects of repeatability measures on results of fMRI sICA: A study on simulated and real resting-state effects. NeuroImage, 2011, 56, 554-569.	4.2	29
46	A Sliding Time-Window ICA Reveals Spatial Variability of the Default Mode Network in Time. Brain Connectivity, 2011, 1, 339-347.	1.7	251
47	Group-ICA Model Order Highlights Patterns of Functional Brain Connectivity. Frontiers in Systems Neuroscience, 2011, 5, 37.	2.5	113
48	Does Lumbar Disc Degeneration on Magnetic Resonance Imaging Associate With Low Back Symptom Severity in Young Finnish Adults?. Spine, 2011, 36, 2180-2189.	2.0	178
49	Instrumentation and method for measuring NIR light absorbed in tissue during MR imaging in medical NIRS measurements. , 2011, , .		1
50	Assessment of Association Between Low Back Pain and Paraspinal Muscle Atrophy Using Opposed-Phase Magnetic Resonance Imaging. Spine, 2011, 36, 1961-1968.	2.0	79
51	Alterations in regional homogeneity of baseline brain activity in pediatric temporal lobe epilepsy. Brain Research, 2011, 1373, 221-229.	2.2	75
52	Genetic susceptibility of intervertebral disc degeneration among young Finnish adults. BMC Medical Genetics, 2011, 12, 153.	2.1	73
53	Directional connectivity of resting state human fMRI data using cascaded ICA-PDC analysis. Acta Radiologica, 2011, 52, 1037-1042.	1.1	9
54	White matter in autism spectrum disorders â€“ evidence of impaired fiber formation. Acta Radiologica, 2011, 52, 1169-1174.	1.1	46

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55	The effect of model order selection in group PICA. Human Brain Mapping, 2010, 31, 1207-1216.	3.6	324
56	Alterations in regional homogeneity of resting-state brain activity in autism spectrum disorders. Brain Research, 2010, 1321, 169-179.	2.2	252
57	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.	2.5	29
58	Age-related differences in functional nodes of the brain cortex - a high model order group ICA study. Frontiers in Systems Neuroscience, 2010, 4, .	2.5	32
59	Functional segmentation of the brain cortex using high model order group PICA. Human Brain Mapping, 2009, 30, 3865-3886.	3.6	343
60	Association of lumbar artery narrowing, degenerative changes in disc and endplate and apparent diffusion in disc on postcontrast enhancement of lumbar intervertebral disc. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2009, 22, 101-109.	2.0	12
61	Preoperative localization of the sensorimotor area using independent component analysis of resting-state fMRI. Magnetic Resonance Imaging, 2009, 27, 733-740.	1.8	110
62	Modic changes in vertebral endplates: a comparison of MR imaging and multislice CT. Skeletal Radiology, 2009, 38, 141-147.	2.0	53
63	Prevalence of Degenerative Imaging Findings in Lumbar Magnetic Resonance Imaging Among Young Adults. Spine, 2009, 34, 1716-1721.	2.0	141
64	Persistent defaultâ€mode network connectivity during light sedation. Human Brain Mapping, 2008, 29, 839-847.	3.6	502
65	Are the determinants of vertebral endplate changes and severe disc degeneration in the lumbar spine the same? A magnetic resonance imaging study in middle-aged male workers. BMC Musculoskeletal Disorders, 2008, 9, 51.	1.9	66
66	Genetic Factors Are Associated With Modic Changes in Endplates of Lumbar Vertebral Bodies. Spine, 2008, 33, 1236-1241.	2.0	60
67	Occupational and Genetic Risk Factors Associated With Intervertebral Disc Disease. Spine, 2007, 32, 1129-1134.	2.0	84
68	Modic Changes in Endplates of Lumbar Vertebral Bodies. Spine, 2007, 32, 1116-1122.	2.0	225
69	A Three-Year Follow-up of Lumbar Spine Endplate (Modic) Changes. Spine, 2006, 31, 1714-1718.	2.0	172
70	The Effect of Infliximab, a Monoclonal Antibody Against TNF-Î±, on Disc Herniation Resorption. Spine, 2006, 31, 2641-2645.	2.0	25
71	Determinants of Spontaneous Resorption of Intervertebral Disc Herniations. Spine, 2006, 31, 1247-1252.	2.0	155
72	The Treatment of Disc Herniation-Induced Sciatica With Infliximab. Spine, 2006, 31, 2759-2766.	2.0	161

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73	Midazolam sedation increases fluctuation and synchrony of the resting brain BOLD signal. Magnetic Resonance Imaging, 2005, 23, 531-537.	1.8	136
74	Separation of physiological very low frequency fluctuation from aliasing by switched sampling interval fMRI scans. Magnetic Resonance Imaging, 2005, 23, 41-46.	1.8	48
75	Interventional and intraoperative MRI at low field scanner â€“ a review. European Journal of Radiology, 2005, 56, 130-142.	2.6	60
76	Comparison of methods for detecting nondeterministic BOLD fluctuation in fMRI. Magnetic Resonance Imaging, 2004, 22, 197-203.	1.8	52
77	Efficacy of Infliximab for Disc Herniation-Induced Sciatica. Spine, 2004, 29, 2115-2119.	2.0	118
78	Effect of Periradicular Methylprednisolone on Spontaneous Resorption of Intervertebral Disc Herniations. Spine, 2004, 29, 1601-1607.	2.0	28
79	Independent component analysis of nondeterministic fMRI signal sources. NeuroImage, 2003, 19, 253-260.	4.2	363
80	Radiologic Phenotypes in Lumbar MR Imaging for a Gene Defect in theCOL9A3Gene of Type IX Collagen. Radiology, 2003, 227, 143-148.	7.3	39
81	Tumor Necrosis Factor-Î± Monoclonal Antibody, Infliximab, Used to Manage Severe Sciatica. Spine, 2003, 28, 750-753.	2.0	93
82	Tumor necrosis factor-alpha monoclonal antibody, infliximab, used to manage severe sciatica. Spine, 2003, 28, 750-3; discussion 753-4.	2.0	54
83	Magnetic Resonance Imaging Findings in Relation to the COL9A2 Tryptophan Allele Among Patients With Sciatica. Spine, 2002, 27, 78-82.	2.0	45
84	Gadolinium Diethylenetriaminepentaacetic Acid Enhancement in Magnetic Resonance Imaging in Relation to Symptoms and Signs among Sciatic Patients. Spine, 2002, 27, 1433-1437.	2.0	21
85	Periradicular Infiltration for Sciatica. Spine, 2001, 26, 1059-1067.	2.0	338
86	Cost Effectiveness of Periradicular Infiltration for Sciatica. Spine, 2001, 26, 2587-2595.	2.0	120
87	Severity of Symptoms and Signs in Relation to Magnetic Resonance Imaging Findings Among Sciatic Patients. Spine, 2001, 26, E149-E154.	2.0	68
88	Correlation of Diffusion in Lumbar Intervertebral Disks with Occlusion of Lumbar Arteries: A Study in Adult Volunteers. Radiology, 2001, 221, 779-786.	7.3	78
89	Slow vasomotor fluctuation in fMRI of anesthetized child brain. Magnetic Resonance in Medicine, 2000, 44, 373-378.	3.0	178
90	Apparent diffusion coefficient in thoracolumbar intervertebral discs of healthy young volunteers. Journal of Magnetic Resonance Imaging, 2000, 12, 255-260.	3.4	47

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91	Slow vasomotor fluctuation in fMRI of anesthetized child brain. Magnetic Resonance in Medicine, 2000, 44, 373-378.	3.0	5
92	MR Imaging in Tibial Shaft Fractures. Acta Radiologica, 1999, 40, 410-414.	1.1	9
93	An Allele of COL9A2 Associated with Intervertebral Disc Disease. Science, 1999, 285, 409-412.	12.6	333