

# Osmo Tervonen

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Persistent default-mode network connectivity during light sedation. <i>Human Brain Mapping</i> , 2008, 29, 839-847.	3.6	502
2	Independent component analysis of nondeterministic fMRI signal sources. <i>NeuroImage</i> , 2003, 19, 253-260.	4.2	363
3	Functional segmentation of the brain cortex using high model order group PICA. <i>Human Brain Mapping</i> , 2009, 30, 3865-3886.	3.6	343
4	Periradicular Infiltration for Sciatica. <i>Spine</i> , 2001, 26, 1059-1067.	2.0	338
5	An Allele of <i>COL9A2</i> Associated with Intervertebral Disc Disease. <i>Science</i> , 1999, 285, 409-412.	12.6	333
6	The effect of model order selection in group PICA. <i>Human Brain Mapping</i> , 2010, 31, 1207-1216.	3.6	324
7	Alterations in regional homogeneity of resting-state brain activity in autism spectrum disorders. <i>Brain Research</i> , 2010, 1321, 169-179.	2.2	252
8	A Sliding Time-Window ICA Reveals Spatial Variability of the Default Mode Network in Time. <i>Brain Connectivity</i> , 2011, 1, 339-347.	1.7	251
9	Modic Changes in Endplates of Lumbar Vertebral Bodies. <i>Spine</i> , 2007, 32, 1116-1122.	2.0	225
10	Infra-Slow EEG Fluctuations Are Correlated with Resting-State Network Dynamics in fMRI. <i>Journal of Neuroscience</i> , 2014, 34, 356-362.	3.6	181
11	Slow vasomotor fluctuation in fMRI of anesthetized child brain. <i>Magnetic Resonance in Medicine</i> , 2000, 44, 373-378.	3.0	178
12	Does Lumbar Disc Degeneration on Magnetic Resonance Imaging Associate With Low Back Symptom Severity in Young Finnish Adults?. <i>Spine</i> , 2011, 36, 2180-2189.	2.0	178
13	A Three-Year Follow-up of Lumbar Spine Endplate (Modic) Changes. <i>Spine</i> , 2006, 31, 1714-1718.	2.0	172
14	The Treatment of Disc Herniation-Induced Sciatica With Infliximab. <i>Spine</i> , 2006, 31, 2759-2766.	2.0	161
15	Determinants of Spontaneous Resorption of Intervertebral Disc Herniations. <i>Spine</i> , 2006, 31, 1247-1252.	2.0	155
16	Prevalence of Degenerative Imaging Findings in Lumbar Magnetic Resonance Imaging Among Young Adults. <i>Spine</i> , 2009, 34, 1716-1721.	2.0	141
17	Midazolam sedation increases fluctuation and synchrony of the resting brain BOLD signal. <i>Magnetic Resonance Imaging</i> , 2005, 23, 531-537.	1.8	136
18	A new immunometabolic perspective of intervertebral disc degeneration. <i>Nature Reviews Rheumatology</i> , 2022, 18, 47-60.	8.0	131

#	ARTICLE	IF	CITATIONS
19	Cost Effectiveness of Periradicular Infiltration for Sciatica. <i>Spine</i> , 2001, 26, 2587-2595.	2.0	120
20	Efficacy of Infliximab for Disc Herniation-Induced Sciatica. <i>Spine</i> , 2004, 29, 2115-2119.	2.0	118
21	Group-ICA Model Order Highlights Patterns of Functional Brain Connectivity. <i>Frontiers in Systems Neuroscience</i> , 2011, 5, 37.	2.5	113
22	Preoperative localization of the sensorimotor area using independent component analysis of resting-state fMRI. <i>Magnetic Resonance Imaging</i> , 2009, 27, 733-740.	1.8	110
23	Tumor Necrosis Factor- $\alpha$ Monoclonal Antibody, Infliximab, Used to Manage Severe Sciatica. <i>Spine</i> , 2003, 28, 750-753.	2.0	93
24	Longitudinal Changes in Total Brain Volume in Schizophrenia: Relation to Symptom Severity, Cognition and Antipsychotic Medication. <i>PLoS ONE</i> , 2014, 9, e101689.	2.5	92
25	Occupational and Genetic Risk Factors Associated With Intervertebral Disc Disease. <i>Spine</i> , 2007, 32, 1129-1134.	2.0	84
26	Association of Abdominal Obesity with Lumbar Disc Degeneration – A Magnetic Resonance Imaging Study. <i>PLoS ONE</i> , 2013, 8, e56244.	2.5	81
27	Assessment of Association Between Low Back Pain and Paraspinal Muscle Atrophy Using Opposed-Phase Magnetic Resonance Imaging. <i>Spine</i> , 2011, 36, 1961-1968.	2.0	79
28	Correlation of Diffusion in Lumbar Intervertebral Disks with Occlusion of Lumbar Arteries: A Study in Adult Volunteers. <i>Radiology</i> , 2001, 221, 779-786.	7.3	78
29	Alterations in regional homogeneity of baseline brain activity in pediatric temporal lobe epilepsy. <i>Brain Research</i> , 2011, 1373, 221-229.	2.2	75
30	Genetic susceptibility of intervertebral disc degeneration among young Finnish adults. <i>BMC Medical Genetics</i> , 2011, 12, 153.	2.1	73
31	Resting state fMRI reveals a default mode dissociation between retrosplenial and medial prefrontal subnetworks in ASD despite motion scrubbing. <i>Frontiers in Human Neuroscience</i> , 2013, 7, 802.	2.0	73
32	Severity of Symptoms and Signs in Relation to Magnetic Resonance Imaging Findings Among Sciatic Patients. <i>Spine</i> , 2001, 26, E149-E154.	2.0	68
33	Association of Modic Changes, Schmorl's Nodes, Spondylolytic Defects, High-Intensity Zone Lesions, Disc Herniations, and Radial Tears With Low Back Symptom Severity Among Young Finnish Adults. <i>Spine</i> , 2012, 37, 1231-1239.	2.0	67
34	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. <i>BMC Musculoskeletal Disorders</i> , 2008, 9, 51.	1.9	66
35	Comparison of Diagnostic Performance of Semi-Quantitative Knee Ultrasound and Knee Radiography with MRI: Oulu Knee Osteoarthritis Study. <i>Scientific Reports</i> , 2016, 6, 22365.	3.3	65
36	GroupICA dual regression analysis of resting state networks in a behavioral variant of frontotemporal dementia. <i>Frontiers in Human Neuroscience</i> , 2013, 7, 461.	2.0	62

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37	Interventional and intraoperative MRI at low field scanner – a review. <i>European Journal of Radiology</i> , 2005, 56, 130-142.	2.6	60
38	Genetic Factors Are Associated With Modic Changes in Endplates of Lumbar Vertebral Bodies. <i>Spine</i> , 2008, 33, 1236-1241.	2.0	60
39	Tumor necrosis factor-alpha monoclonal antibody, infliximab, used to manage severe sciatica. <i>Spine</i> , 2003, 28, 750-3; discussion 753-4.	2.0	54
40	Modic changes in vertebral endplates: a comparison of MR imaging and multislice CT. <i>Skeletal Radiology</i> , 2009, 38, 141-147.	2.0	53
41	Comparison of methods for detecting nondeterministic BOLD fluctuation in fMRI. <i>Magnetic Resonance Imaging</i> , 2004, 22, 197-203.	1.8	52
42	Aberrant Functional Connectivity in the Default Mode and Central Executive Networks in Subjects with Schizophrenia – A Whole-Brain Resting-State ICA Study. <i>Frontiers in Psychiatry</i> , 2015, 6, 26.	2.6	51
43	Separation of physiological very low frequency fluctuation from aliasing by switched sampling interval fMRI scans. <i>Magnetic Resonance Imaging</i> , 2005, 23, 41-46.	1.8	48
44	Apparent diffusion coefficient in thoracolumbar intervertebral discs of healthy young volunteers. <i>Journal of Magnetic Resonance Imaging</i> , 2000, 12, 255-260.	3.4	47
45	Connectivity disruptions in resting-state functional brain networks in children with temporal lobe epilepsy. <i>Epilepsy Research</i> , 2012, 100, 168-178.	1.6	47
46	White matter in autism spectrum disorders – evidence of impaired fiber formation. <i>Acta Radiologica</i> , 2011, 52, 1169-1174.	1.1	46
47	Magnetic Resonance Imaging Findings in Relation to the COL9A2 Tryptophan Allele Among Patients With Sciatica. <i>Spine</i> , 2002, 27, 78-82.	2.0	45
48	Real-time monitoring of human blood-brain barrier disruption. <i>PLoS ONE</i> , 2017, 12, e0174072.	2.5	45
49	Association Between Modic Changes and Low Back Pain in Middle Age. <i>Spine</i> , 2020, 45, 1360-1367.	2.0	40
50	Radiologic Phenotypes in Lumbar MR Imaging for a Gene Defect in the COL9A3 Gene of Type IX Collagen. <i>Radiology</i> , 2003, 227, 143-148.	7.3	39
51	Body mass index is associated with lumbar disc degeneration in young Finnish males: subsample of Northern Finland birth cohort study 1986. <i>BMC Musculoskeletal Disorders</i> , 2013, 14, 87.	1.9	39
52	Efficacy of zoledronic acid for chronic low back pain associated with Modic changes in magnetic resonance imaging. <i>BMC Musculoskeletal Disorders</i> , 2014, 15, 64.	1.9	38
53	Age-related differences in functional nodes of the brain cortex - a high model order group ICA study. <i>Frontiers in Systems Neuroscience</i> , 2010, 4, .	2.5	32
54	Altered resting-state activity in seasonal affective disorder. <i>Human Brain Mapping</i> , 2014, 35, 161-172.	3.6	30

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55	Correction of low-frequency physiological noise from the resting state BOLD fMRIâ€™Effect on ICA default mode analysis at 1.5 T. <i>Journal of Neuroscience Methods</i> , 2010, 186, 179-185.	2.5	29
56	Effects of repeatability measures on results of fMRI sICA: A study on simulated and real resting-state effects. <i>NeuroImage</i> , 2011, 56, 554-569.	4.2	29
57	Effect of Periradicular Methylprednisolone on Spontaneous Resorption of Intervertebral Disc Herniations. <i>Spine</i> , 2004, 29, 1601-1607.	2.0	28
58	The variability of functional MRI brain signal increases in Alzheimer's disease at cardiorespiratory frequencies. <i>Scientific Reports</i> , 2020, 10, 21559.	3.3	28
59	The Effect of Infliximab, a Monoclonal Antibody Against TNF-Î±, on Disc Herniation Resorption. <i>Spine</i> , 2006, 31, 2641-2645.	2.0	25
60	Valence Scaling of Dynamic Facial Expressions is Altered in High-Functioning Subjects with Autism Spectrum Disorders: an fMRI Study. <i>Journal of Autism and Developmental Disorders</i> , 2012, 42, 1011-1024.	2.7	23
61	Gadolinium Diethylenetriaminepentaacetic Acid Enhancement in Magnetic Resonance Imaging in Relation to Symptoms and Signs among Sciatic Patients. <i>Spine</i> , 2002, 27, 1433-1437.	2.0	21
62	Justification and active guideline implementation for spine radiography referrals in primary care. <i>Acta Radiologica</i> , 2017, 58, 586-592.	1.1	21
63	Fluctuations of the EEGâ€™fMRI correlation reflect intrinsic strength of functional connectivity in default mode network. <i>Journal of Neuroscience Research</i> , 2018, 96, 1689-1698.	2.9	21
64	Information about radiation dose and risks in connection with radiological examinations: what patients would like to know. <i>European Radiology</i> , 2016, 26, 436-443.	4.5	20
65	Attention and Working Memory in Adolescents with Autism Spectrum Disorder: A Functional MRI Study. <i>Child Psychiatry and Human Development</i> , 2016, 47, 503-517.	1.9	18
66	Structure-symptom relationship with wide-area ultrasound scanning of knee osteoarthritis. <i>Scientific Reports</i> , 2017, 7, 44470.	3.3	18
67	The effect of zoledronic acid on type and volume of Modic changes among patients with low back pain. <i>BMC Musculoskeletal Disorders</i> , 2017, 18, 274.	1.9	17
68	MRI-guidance in percutaneous core decompression of osteonecrosis of the femoral head. <i>European Radiology</i> , 2016, 26, 1180-1185.	4.5	16
69	Comparison of consumer grade, tablet and 6MP-displays: observer performance in detection of anatomical and pathological structures in panoramic radiographs. <i>Oral Surgery, Oral Medicine, Oral Pathology and Oral Radiology</i> , 2014, 118, 135-141.	0.4	15
70	Human Heart Pulse Wave Responses Measured Simultaneously at Several Sensor Placements by Two MR-Compatible Fibre Optic Methods. <i>Journal of Sensors</i> , 2012, 2012, 1-8.	1.1	14
71	DTI abnormalities in adults with past history of attention deficit hyperactivity disorder: a tract-based spatial statistics study. <i>Acta Radiologica</i> , 2015, 56, 990-996.	1.1	13
72	Body mass index and brain white matter structure in young adults at risk for psychosis â€™The Oulu Brain and Mind Study. <i>Psychiatry Research - Neuroimaging</i> , 2016, 254, 169-176.	1.8	13

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73	Effect of display type, DICOM calibration and room illuminance in bitewing radiographs. <i>Dentomaxillofacial Radiology</i> , 2016, 45, 20150129.	2.7	13
74	Combined spatiotemporal ICA (stICA) for continuous and dynamic lag structure analysis of MREG data. <i>NeuroImage</i> , 2017, 148, 352-363.	4.2	13
75	Association of lumbar artery narrowing, degenerative changes in disc and endplate and apparent diffusion in disc on postcontrast enhancement of lumbar intervertebral disc. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2009, 22, 101-109.	2.0	12
76	Quantitative MRI of Human Cartilage <i>in Vivo</i> : Relationships with Arthroscopic Indentation Stiffness and Defect Severity. <i>Cartilage</i> , 2018, 9, 46-54.	2.7	12
77	Does bone scintigraphy show Modic changes associated with increased bone turnover?. <i>European Journal of Radiology Open</i> , 2020, 7, 100222.	1.6	12
78	MRI-guided laser ablation of neuroendocrine tumor hepatic metastases. <i>Acta Radiologica Short Reports</i> , 2014, 3, 204798161349975.	0.7	11
79	T2-weighted magnetic resonance imaging texture as predictor of low back pain: A texture analysis-based classification pipeline to symptomatic and asymptomatic cases. <i>Journal of Orthopaedic Research</i> , 2021, 39, 2428-2438.	2.3	11
80	The Effect of Zoledronic Acid on Serum Biomarkers among Patients with Chronic Low Back Pain and Modic Changes in Lumbar Magnetic Resonance Imaging. <i>Diagnostics</i> , 2019, 9, 212.	2.6	10
81	MR Imaging in Tibial Shaft Fractures. <i>Acta Radiologica</i> , 1999, 40, 410-414.	1.1	9
82	Directional connectivity of resting state human fMRI data using cascaded ICA-PDC analysis. <i>Acta Radiologica</i> , 2011, 52, 1037-1042.	1.1	9
83	White matter structure in young adults with familial risk for psychosis – The Oulu Brain and Mind Study. <i>Psychiatry Research - Neuroimaging</i> , 2015, 233, 388-393.	1.8	8
84	Reading, listening and memory-related brain activity in children with early-stage temporal lobe epilepsy of unknown cause-an fMRI study. <i>European Journal of Paediatric Neurology</i> , 2015, 19, 561-571.	1.6	6
85	Magnetic resonance imaging of avascular necrosis of the femoral head: predictive findings of total hip arthroplasty. <i>Acta Radiologica Open</i> , 2021, 10, 205846012110083.	0.6	5
86	Co-activation pattern alterations in autism spectrum disorder – A volume-wise hierarchical clustering fMRI study. <i>Brain and Behavior</i> , 2021, 11, e02174.	2.2	5
87	Slow vasomotor fluctuation in fMRI of anesthetized child brain. <i>Magnetic Resonance in Medicine</i> , 2000, 44, 373-378.	3.0	5
88	Discrepancies in interpretation of night-time emergency computed tomography scans by radiology residents. <i>Acta Radiologica Open</i> , 2018, 7, 205846011880723.	0.6	4
89	The effect of interventions on appropriate use of lumbar spine radiograph and CT examinations in young adults and children: a three-year follow-up. <i>Acta Radiologica</i> , 2020, 61, 1042-1049.	1.1	3
90	On applicability of PCA, voxel-wise variance normalization and dimensionality assumptions for sliding temporal window sICA in resting-state fMRI. <i>Magnetic Resonance Imaging</i> , 2013, 31, 1338-1348.	1.8	2

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91	Magnetic resonance imaging-guided biopsies in children. Acta Radiologica Open, 2021, 10, 205846012110538.	0.6	2
92	Instrumentation and method for measuring NIR light absorbed in tissue during MR imaging in medical NIRS measurements. , 2011, , .		1
93	Breast Cancer Detection Feasibility with UWB Flexible Antennas on Wearable Monitoring Vest. , 2022, , .		1