

Osmo Tervonen

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

91
papers

5,634
citations

41
h-index

74
g-index

93
ext. papers

6,477
ext. citations

4.3
avg, IF

4.94
L-index

#	Paper	IF	Citations
91	Persistent default-mode network connectivity during light sedation. <i>Human Brain Mapping</i> , 2008 , 29, 839-47	5.9	433
90	Independent component analysis of nondeterministic fMRI signal sources. <i>NeuroImage</i> , 2003 , 19, 253-60	7.9	303
89	An allele of COL9A2 associated with intervertebral disc disease. <i>Science</i> , 1999 , 285, 409-12	33.3	294
88	Functional segmentation of the brain cortex using high model order group PICA. <i>Human Brain Mapping</i> , 2009 , 30, 3865-86	5.9	280
87	Periradicular infiltration for sciatica: a randomized controlled trial. <i>Spine</i> , 2001 , 26, 1059-67	3.3	255
86	The effect of model order selection in group PICA. <i>Human Brain Mapping</i> , 2010 , 31, 1207-16	5.9	251
85	Alterations in regional homogeneity of resting-state brain activity in autism spectrum disorders. <i>Brain Research</i> , 2010 , 1321, 169-79	3.7	209
84	A sliding time-window ICA reveals spatial variability of the default mode network in time. <i>Brain Connectivity</i> , 2011 , 1, 339-47	2.7	188
83	Modic changes in endplates of lumbar vertebral bodies: prevalence and association with low back and sciatic pain among middle-aged male workers. <i>Spine</i> , 2007 , 32, 1116-22	3.3	186
82	A three-year follow-up of lumbar spine endplate (Modic) changes. <i>Spine</i> , 2006 , 31, 1714-8	3.3	149
81	Slow vasomotor fluctuation in fMRI of anesthetized child brain. <i>Magnetic Resonance in Medicine</i> , 2000 , 44, 373-8	4.4	145
80	Infra-slow EEG fluctuations are correlated with resting-state network dynamics in fMRI. <i>Journal of Neuroscience</i> , 2014 , 34, 356-62	6.6	139
79	Does lumbar disc degeneration on magnetic resonance imaging associate with low back symptom severity in young Finnish adults?. <i>Spine</i> , 2011 , 36, 2180-9	3.3	131
78	The treatment of disc-herniation-induced sciatica with infliximab: one-year follow-up results of FIRST II, a randomized controlled trial. <i>Spine</i> , 2006 , 31, 2759-66	3.3	124
77	Prevalence of degenerative imaging findings in lumbar magnetic resonance imaging among young adults. <i>Spine</i> , 2009 , 34, 1716-21	3.3	118
76	Midazolam sedation increases fluctuation and synchrony of the resting brain BOLD signal. <i>Magnetic Resonance Imaging</i> , 2005 , 23, 531-7	3.3	118
75	Determinants of spontaneous resorption of intervertebral disc herniations. <i>Spine</i> , 2006 , 31, 1247-52	3.3	113

74	Preoperative localization of the sensorimotor area using independent component analysis of resting-state fMRI. <i>Magnetic Resonance Imaging</i> , 2009 , 27, 733-40	3.3	98
73	Efficacy of infliximab for disc herniation-induced sciatica: one-year follow-up. <i>Spine</i> , 2004 , 29, 2115-9	3.3	89
72	Group-ICA Model Order Highlights Patterns of Functional Brain Connectivity. <i>Frontiers in Systems Neuroscience</i> , 2011 , 5, 37	3.5	86
71	Cost effectiveness of periradicular infiltration for sciatica: subgroup analysis of a randomized controlled trial. <i>Spine</i> , 2001 , 26, 2587-95	3.3	82
70	Correlation of diffusion in lumbar intervertebral disks with occlusion of lumbar arteries: a study in adult volunteers. <i>Radiology</i> , 2001 , 221, 779-86	20.5	75
69	Alterations in regional homogeneity of baseline brain activity in pediatric temporal lobe epilepsy. <i>Brain Research</i> , 2011 , 1373, 221-9	3.7	69
68	Longitudinal changes in total brain volume in schizophrenia: relation to symptom severity, cognition and antipsychotic medication. <i>PLoS ONE</i> , 2014 , 9, e101689	3.7	68
67	Assessment of association between low back pain and paraspinal muscle atrophy using opposed-phase magnetic resonance imaging: a population-based study among young adults. <i>Spine</i> , 2011 , 36, 1961-8	3.3	67
66	Occupational and genetic risk factors associated with intervertebral disc disease. <i>Spine</i> , 2007 , 32, 1129-34	3.3	65
65	Genetic susceptibility of intervertebral disc degeneration among young Finnish adults. <i>BMC Medical Genetics</i> , 2011 , 12, 153	2.1	61
64	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	3.3	60
63	Tumor Necrosis Factor- α Monoclonal Antibody, Infliximab, Used to Manage Severe Sciatica. <i>Spine</i> , 2003 , 28, 750-753	3.3	60
62	Association of abdominal obesity with lumbar disc degeneration--a magnetic resonance imaging study. <i>PLoS ONE</i> , 2013 , 8, e56244	3.7	58
61	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, 1231-9	3.3	57
60	Severity of symptoms and signs in relation to magnetic resonance imaging findings among sciatic patients. <i>Spine</i> , 2001 , 26, E149-54	3.3	56
59	Group ICA dual regression analysis of resting state networks in a behavioral variant of frontotemporal dementia. <i>Frontiers in Human Neuroscience</i> , 2013 , 7, 461	3.3	54
58	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	2.8	49
57	Genetic factors are associated with modic changes in endplates of lumbar vertebral bodies. <i>Spine</i> , 2008 , 33, 1236-41	3.3	49

56	Tumor necrosis factor-alpha monoclonal antibody, infliximab, used to manage severe sciatica. <i>Spine</i> , 2003 , 28, 750-3; discussion 753-4	3-3	49
55	Interventional and intraoperative MRI at low field scanner--a review. <i>European Journal of Radiology</i> , 2005 , 56, 130-42	4-7	47
54	White matter in autism spectrum disorders - evidence of impaired fiber formation. <i>Acta Radiologica</i> , 2011 , 52, 1169-74	2	46
53	Modic changes in vertebral endplates: a comparison of MR imaging and multislice CT. <i>Skeletal Radiology</i> , 2009 , 38, 141-7	2-7	43
52	Comparison of methods for detecting nondeterministic BOLD fluctuation in fMRI. <i>Magnetic Resonance Imaging</i> , 2004 , 22, 197-203	3-3	42
51	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	4-9	42
50	Magnetic resonance imaging findings in relation to the COL9A2 tryptophan allele among patients with sciatica. <i>Spine</i> , 2002 , 27, 78-83	3-3	41
49	Connectivity disruptions in resting-state functional brain networks in children with temporal lobe epilepsy. <i>Epilepsy Research</i> , 2012 , 100, 168-78	3	38
48	Apparent diffusion coefficient in thoracolumbar intervertebral discs of healthy young volunteers. <i>Journal of Magnetic Resonance Imaging</i> , 2000 , 12, 255-60	5-6	38
47	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	5	35
46	Separation of physiological very low frequency fluctuation from aliasing by switched sampling interval fMRI scans. <i>Magnetic Resonance Imaging</i> , 2005 , 23, 41-6	3-3	33
45	Radiologic phenotypes in lumbar MR imaging for a gene defect in the COL9A3 gene of type IX collagen. <i>Radiology</i> , 2003 , 227, 143-8	20-5	31
44	Real-time monitoring of human blood-brain barrier disruption. <i>PLoS ONE</i> , 2017 , 12, e0174072	3-7	31
43	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	2-8	29
42	Altered resting-state activity in seasonal affective disorder. <i>Human Brain Mapping</i> , 2014 , 35, 161-72	5-9	26
41	Correction of low-frequency physiological noise from the resting state BOLD fMRI--Effect on ICA default mode analysis at 1.5 T. <i>Journal of Neuroscience Methods</i> , 2010 , 186, 179-85	3	26
40	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,	3-5	25
39	Effects of repeatability measures on results of fMRI sICA: a study on simulated and real resting-state effects. <i>NeuroImage</i> , 2011 , 56, 554-69	7-9	23

38	Effect of periradicular methylprednisolone on spontaneous resorption of intervertebral disc herniations. <i>Spine</i> , 2004 , 29, 1601-7	3.3	23
37	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	2.8	18
36	The effect of infliximab, a monoclonal antibody against TNF-alpha, on disc herniation resorption: a randomized controlled study. <i>Spine</i> , 2006 , 31, 2641-5	3.3	18
35	Gadolinium diethylenetriaminepentaacetic acid enhancement in magnetic resonance imaging in relation to symptoms and signs among sciatic patients: a cross-sectional study. <i>Spine</i> , 2002 , 27, 1433-7	3.3	18
34	Information about radiation dose and risks in connection with radiological examinations: what patients would like to know. <i>European Radiology</i> , 2016 , 26, 436-43	8	17
33	Attention and Working Memory in Adolescents with Autism Spectrum Disorder: A Functional MRI Study. <i>Child Psychiatry and Human Development</i> , 2016 , 47, 503-17	3.3	16
32	Justification and active guideline implementation for spine radiography referrals in primary care. <i>Acta Radiologica</i> , 2017 , 58, 586-592	2	16
31	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, 1011-24	4.6	16
30	Association Between Modic Changes and Low Back Pain in Middle Age: A Northern Finland Birth Cohort Study. <i>Spine</i> , 2020 , 45, 1360-1367	3.3	16
29	MRI-guidance in percutaneous core decompression of osteonecrosis of the femoral head. <i>European Radiology</i> , 2016 , 26, 1180-5	8	13
28	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, 135-41	2	13
27	The variability of functional MRI brain signal increases in Alzheimer's disease at cardiorespiratory frequencies. <i>Scientific Reports</i> , 2020 , 10, 21559	4.9	12
26	A new immunometabolic perspective of intervertebral disc degeneration. <i>Nature Reviews Rheumatology</i> , 2021 ,	8.1	12
25	Fluctuations of the EEG-fMRI correlation reflect intrinsic strength of functional connectivity in default mode network. <i>Journal of Neuroscience Research</i> , 2018 , 96, 1689-1698	4.4	12
24	Combined spatiotemporal ICA (stICA) for continuous and dynamic lag structure analysis of MREG data. <i>NeuroImage</i> , 2017 , 148, 352-363	7.9	11
23	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	2.8	11
22	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, 101-9	2.8	11
21	Effect of display type, DICOM calibration and room illuminance in bitewing radiographs. <i>Dentomaxillofacial Radiology</i> , 2016 , 45, 20150129	3.9	10

20	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	2	10
19	Directional connectivity of resting state human fMRI data using cascaded ICA-PDC analysis. <i>Acta Radiologica</i> , 2011 , 52, 1037-42	2	9
18	MRI-guided laser ablation of neuroendocrine tumor hepatic metastases. <i>Acta Radiologica Short Reports</i> , 2014 , 3, 2047981613499753		8
17	MR imaging in tibial shaft fractures. A potential method for early visualization of delayed union. <i>Acta Radiologica</i> , 1999 , 40, 410-4	2	8
16	DTI abnormalities in adults with past history of attention deficit hyperactivity disorder: a tract-based spatial statistics study. <i>Acta Radiologica</i> , 2015 , 56, 990-6	2	7
15	Body mass index and brain white matter structure in young adults at risk for psychosis - The Oulu Brain and Mind Study. <i>Psychiatry Research - Neuroimaging</i> , 2016 , 254, 169-76	2.9	7
14	Structure-symptom relationship with wide-area ultrasound scanning of knee osteoarthritis. <i>Scientific Reports</i> , 2017 , 7, 44470	4.9	6
13	White matter structure in young adults with familial risk for psychosis - The Oulu Brain and Mind Study. <i>Psychiatry Research - Neuroimaging</i> , 2015 , 233, 388-93	2.9	6
12	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, 561-71	3.8	6
11	Quantitative MRI of Human Cartilage In Vivo: Relationships with Arthroscopic Indentation Stiffness and Defect Severity. <i>Cartilage</i> , 2018 , 9, 46-54	3	4
10	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,	3.8	4
9	Does bone scintigraphy show Modic changes associated with increased bone turnover?. <i>European Journal of Radiology Open</i> , 2020 , 7, 100222	2.6	3
8	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, 1338-48	3.3	2
7	T-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	3.8	2
6	Slow vasomotor fluctuation in fMRI of anesthetized child brain 2000 , 44, 373		2
5	Magnetic resonance imaging-guided biopsies in children. <i>Acta Radiologica Open</i> , 2021 , 10, 20584601211053846		
4	Co-activation pattern alterations in autism spectrum disorder-A volume-wise hierarchical clustering fMRI study. <i>Brain and Behavior</i> , 2021 , 11, e02174	3.4	1
3	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	2	0

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| 2 | Magnetic resonance imaging of avascular necrosis of the femoral head: predictive findings of total hip arthroplasty.. <i>Acta Radiologica Open</i> , 2021 , 10, 20584601211008379 | 1.2 | ○ |
| 1 | Discrepancies in interpretation of night-time emergency computed tomography scans by radiology residents. <i>Acta Radiologica Open</i> , 2018 , 7, 2058460118807234 | 1.2 | ○ |