Jean A Tkach

List of Publications by Year
in descending order

92 papers	2,655 citations	172457 29 h-index	197818 49 g-index
93 all docs	93 docs citations	93 times ranked	3345 citing authors

#	Article	IF	Citations
1	Abnormalities in diffusion tensor imaging of the uncinate fasciculus relate to reduced memory in temporal lobe epilepsy. Epilepsia, 2008, 49, 1409-1418.	5.1	196
2	Neurostimulation System Used for Deep Brain Stimulation (DBS). Investigative Radiology, 2004, 39, 300-303.	6.2	177
3	Greater corticolimbic activation to high-calorie food cues after eating in obese vs. normal-weight adults. Appetite, 2012, 58, 303-312.	3.7	122
4	Parkinson Disease: Pattern of Functional MR Imaging Activation during Deep Brain Stimulation of Subthalamic Nucleusâ€"Initial Experience. Radiology, 2006, 239, 209-216.	7.3	99
5	MR imaging-related heating of deep brain stimulation electrodes: in vitro study. American Journal of Neuroradiology, 2002, 23, 1795-802.	2.4	98
6	Is Magnetic Resonance Imaging Safe for Patients with Neurostimulation Systems Used for Deep Brain Stimulation?. Neurosurgery, 2005, 57, 1056-1062.	1.1	96
7	Neonatal Pulmonary Magnetic Resonance Imaging of Bronchopulmonary Dysplasia Predicts Short-Term Clinical Outcomes. American Journal of Respiratory and Critical Care Medicine, 2018, 198, 1302-1311.	5.6	93
8	Retrospective respiratory selfâ€gating and removal of bulk motion in pulmonary <scp>UTE MRI</scp> of neonates and adults. Magnetic Resonance in Medicine, 2017, 77, 1284-1295.	3.0	87
9	Cardiac Pacemakers, Icds, And Loop Recorder: Evaluation Of Translational Attraction Using Conventional (â€œLong-boreâ€) And â€œShort-boreâ€•1.5- And 3.0-Tesla Mr Systems. Journal of Cardiovascular Magnetic Resonance, 2003, 5, 387-397.	3.3	84
10	Separation of fat and water in fast spin-echo MR imaging with the three-point dixon technique. Journal of Magnetic Resonance Imaging, 1995, 5, 181-185.	3.4	80
11	Quantitative Magnetic Resonance Imaging of Bronchopulmonary Dysplasia in the Neonatal Intensive Care Unit Environment. American Journal of Respiratory and Critical Care Medicine, 2015, 192, 1215-1222.	5.6	74
12	Postictal Diffusionâ€Weighted Imaging for the Localization of Focal Epileptic Areas in Temporal Lobeâ€ƒEpilepsy. Epilepsia, 2001, 42, 21-28.	5.1	68
13	Pulmonary MRI of neonates in the intensive care unit using 3D ultrashort echo time and a small footprint MRI system. Journal of Magnetic Resonance Imaging, 2017, 45, 463-471.	3.4	68
14	MRI in the Neonatal ICU: Initial Experience Using a Small-Footprint 1.5-T System. American Journal of Roentgenology, 2014, 202, W95-W105.	2.2	63
15	Quantification of neonatal lung parenchymal density via ultrashort echo time MRI with comparison to CT. Journal of Magnetic Resonance Imaging, 2017, 46, 992-1000.	3.4	61
16	The mind's eye: functional MR imaging evaluation of golf motor imagery. American Journal of Neuroradiology, 2003, 24, 1036-44.	2.4	59
17	A comparison of fast spin echo and gradient field echo sequences. Magnetic Resonance Imaging, 1988, 6, 373-389.	1.8	56
18	High Resolution, Magnetization Transfer Saturation, Variable Flip Angle, Time-of-Flight MRA in the Detection of Intracranial Vascular Stenoses. Journal of Computer Assisted Tomography, 1995, 19, 700-706.	0.9	55

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19	Altered functional network connectivity in preterm infants: antecedents of cognitive and motor impairments?. Brain Structure and Function, 2018, 223, 3665-3680.	2.3	45
20	An MRI system for imaging neonates in the NICU: initial feasibility study. Pediatric Radiology, 2012, 42, 1347-1356.	2.0	43
21	Brain atrophy and magnetization transfer ratio following methylprednisolone in multiple sclerosis: short-term changes and long-term implications. Multiple Sclerosis Journal, 2005, 11, 140-145.	3.0	41
22	Neural correlates of phonological processing in speech sound disorder: A functional magnetic resonance imaging study. Brain and Language, 2011, 119, 42-49.	1.6	41
23	Prenatal opioid exposure is associated with smaller brain volumes in multiple regions. Pediatric Research, 2021, 90, 397-402.	2.3	41
24	Cardiac Magnetic Resonance Imaging Evaluation of Neonatal Bronchopulmonary Dysplasiaâ€“associated Pulmonary Hypertension. American Journal of Respiratory and Critical Care Medicine, 2020, 201, 73-82.	5.6	39
25	Linearity and Bias of Proton Density Fat Fraction as a Quantitative Imaging Biomarker: A Multicenter, Multiplatform, Multivendor Phantom Study. Radiology, 2021, 298, 640-651.	7.3	39
26	Tempo mediates the involvement of motor areas in beat perception. Annals of the New York Academy of Sciences, 2012, 1252, 77-84.	3.8	34
27	Cortical stimulation for language mapping in focal epilepsy: Correlations with tractography of the arcuate fasciculus. Epilepsia, 2010, 51, 639-646.	5.1	33
28	White Matter Injury and Structural Anomalies in Infants with Prenatal Opioid Exposue. American Journal of Neuroradiology, 2019, 40, 2161-2165.	2.4	32
29	Diagnostic performance of quantitative magnetic resonance imaging biomarkers for predicting portal hypertension in children and young adults with autoimmune liver disease. Pediatric Radiology, 2019, 49, 332-341.	2.0	32
30	Aneurysm clips: evaluation of magnetic field interactions and translational attraction by use of "long-bore" and "short-bore" 3.0-T MR imaging systems. American Journal of Neuroradiology, 2003, 24, 463-71.	2.4	32
31	Characterization of acoustic noise in a neonatal intensive care unit MRI system. Pediatric Radiology, 2014, 44, 1011-1019.	2.0	29
32	Development and characterization of an adult model of obstructive hydrocephalus. Journal of Neuroscience Methods, 1999, 91, 55-65.	2.5	28
33	Functional MRI evidence for fine motor praxis dysfunction in children with persistent speech disorders. Brain Research, 2015, 1597, 47-56.	2.2	27
34	Evaluation of Neonatal Lung Volume Growth by Pulmonary Magnetic Resonance Imaging in Patients with Congenital Diaphragmatic Hernia. Journal of Pediatrics, 2017, 188, 96-102.e1.	1.8	24
35	Rapid 3D radial multi-echo functional magnetic resonance imaging. NeuroImage, 2010, 52, 1428-1443.	4.2	23
36	Neonatal imaging using an on-site small footprint MR scanner. Pediatric Radiology, 2017, 47, 1001-1011.	2.0	20

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37	Comparison of Standard Breath-Held, Free-Breathing, and Compressed Sensing 2D Gradient-Recalled Echo MR Elastography Techniques for Evaluating Liver Stiffness. American Journal of Roentgenology, 2018, 211, W279-W287.	2.2	20
38	Pre- and post-operative visualization of neonatal esophageal atresia/tracheoesophageal fistula via magnetic resonance imaging. Journal of Pediatric Surgery Case Reports, 2018, 29, 5-8.	0.2	19
39	Magnetic resonance imaging T1 relaxation times for the liver, pancreas and spleen in healthy children at 1.5 and 3Âtesla. Pediatric Radiology, 2019, 49, 1018-1024.	2.0	19
40	Differentiating pediatric autoimmune liver diseases by quantitative magnetic resonance cholangiopancreatography. Abdominal Radiology, 2020, 45, 168-176.	2.1	18
41	Effects of prenatal opioid exposure on functional networks in infancy. Developmental Cognitive Neuroscience, 2021, 51, 100996.	4.0	18
42	Quantification of Hepatic Steatosis by Ultrasound: Prospective Comparison With MRI Proton Density Fat Fraction as Reference Standard. American Journal of Roentgenology, 2022, 219, 784-791.	2.2	18
43	Spiral T1 Spin-Echo for Routine Postcontrast Brain MRI Exams: A Multicenter Multireader Clinical Evaluation. American Journal of Neuroradiology, 2020, 41, 238-245.	2.4	17
44	Clinical MR imaging of degenerative spinal disease: Pulse sequences, gradient-echo techniques, and contrast agents. Journal of Magnetic Resonance Imaging, 1991, 1, 29-37.	3.4	15
45	5HTTLPR predicts left fusiform gyrus activation to positive emotional stimuli. Magnetic Resonance Imaging, 2009, 27, 441-448.	1.8	15
46	Pulse sequence strategies for vascular contrast in time-of-flight carotid MR angiography. Journal of Magnetic Resonance Imaging, 1993, 3, 811-820.	3.4	14
47	Three-dimensional time-of-flight MR angiography with a specialized gradient head coil. Journal of Magnetic Resonance Imaging, 1993, 3, 365-375.	3.4	13
48	Functional and structural connectivity of the visual system in infants with perinatal brain injury. Pediatric Research, 2016, 80, 43-48.	2.3	13
49	Non-contrast three-dimensional gradient recalled echo Dixon-based magnetic resonance angiography/venography in children. Pediatric Radiology, 2019, 49, 407-414.	2.0	13
50	Improvement of spiral MRI with the measured k-space trajectory. Journal of Magnetic Resonance Imaging, 1997, 7, 938-940.	3.4	12
51	Neonatal lung growth in congenital diaphragmatic hernia: evaluation of lung density and mass by pulmonary MRI. Pediatric Research, 2019, 86, 635-640.	2.3	12
52	Temperatureâ€corrected proton density fat fraction estimation using chemical shiftâ€encoded MRI in phantoms. Magnetic Resonance in Medicine, 2021, 86, 69-81.	3.0	11
53	Fast spin-echo imaging of the knee: Factors influencing contrast. Journal of Magnetic Resonance Imaging, 1993, 3, 835-842.	3.4	9
54	Three-dimensional time-of-flight MR angiography with variable TE (VARIETE) for fat signal reduction. Magnetic Resonance in Medicine, 1994, 32, 678-683.	3.0	9

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55	Comparison of liver T1 relaxation times without and with iron correction in pediatric autoimmune liver disease. Pediatric Radiology, 2020, 50, 935-942.	2.0	9
56	3D MPRAGE Evaluation of the Internal Auditory Canals. Journal of Computer Assisted Tomography, 1993, 17, 442-445.	0.9	8
57	Respiratoryâ€triggered spinâ€echo echoâ€planar imagingâ€based mr elastography for evaluating liver stiffness. Journal of Magnetic Resonance Imaging, 2019, 50, 391-396.	3.4	8
58	Neonatal Functional and Structural Connectivity Are Associated with Cerebral Palsy at Two Years of Age. American Journal of Perinatology, 2020, 37, 137-145.	1.4	8
59	Utilization of 3-T fetal magnetic resonance imaging in clinical practice: a single-institution experience. Pediatric Radiology, 2021, 51, 1798-1808.	2.0	8
60	Quantitative assessment of velocity and flow using compressed SENSE in children and young adults with adequate acquired temporal resolution. Journal of Cardiovascular Magnetic Resonance, 2021, 23, 113.	3.3	8
61	Parallel excitation for Bâ€field insensitive fatâ€saturation preparation. Magnetic Resonance in Medicine, 2012, 68, 631-638.	3.0	7
62	Feeding Tolerance, Intestinal Motility, and Superior Mesenteric Artery Blood Flow in Infants with Gastroschisis. Neonatology, 2020, 117, 95-101.	2.0	7
63	Comparison of compressed SENSE and SENSE for quantitative liver MRI in children and young adults. Abdominal Radiology, 2021, 46, 4567-4575.	2.1	7
64	Multiparametric quantitative renal MRI in children and young adults: comparison between healthy individuals and patients with chronic kidney disease. Abdominal Radiology, 2022, 47, 1840-1852.	2.1	7
65	A novel acoustically quiet coil for neonatal MRI system. Concepts in Magnetic Resonance Part B, 2015, 45, 107-114.	0.7	6
66	Early microâ€and macrostructure of sensorimotor tracts and development of cerebral palsy in high risk infants. Human Brain Mapping, 2021, 42, 4708-4721.	3.6	6
67	Wavelet-space correlation imaging for high-speed MRI without motion monitoring or data segmentation. Magnetic Resonance in Medicine, 2015, 74, 1574-1586.	3.0	5
68	Assessment of agreement between manual and automated processing of liver MR elastography for shear stiffness estimation in children and young adults with autoimmune liver disease. Abdominal Radiology, 2021, 46, 3927-3934.	2.1	5
69	Optimization of three-dimensional T1-weighted gradient-echo imaging of the cervical spine. Journal of Magnetic Resonance Imaging, 1992, 2, 359-364.	3.4	4
70	In vitro studies of MRI-related heating of neurostimulation systems. Magnetic Resonance Imaging, 2006, 24, 677-679.	1.8	4
71	Neonatal body magnetic resonance imaging: preparation, performance and optimization. Pediatric Radiology, 2021, , 1.	2.0	4
72	Velocity-Encoded Phase-Contrast MRI for Measuring Mesenteric Blood Flow in Patients With Newly Diagnosed Small-Bowel Crohn Disease. American Journal of Roentgenology, 2022, 219, 132-141.	2.2	4

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73	Patient- and Examination-Related Predictors of 3D MRCP Image Quality in Children. American Journal of Roentgenology, 2022, 218, 910-916.	2.2	4
74	Comparison of Quantitative Liver US and MRI in Patients with Liver Disease. Radiology, 0, , .	7.3	4
75	Comparison of navigator-gated and breath-held image acquisition techniques for multi-echo quantitative dixon imaging of the liver in children and young adults. Abdominal Radiology, 2019, 44, 2172-2181.	2.1	3
76	Magnetic Resonance Imaging Assessment of Pulmonary Vascularity in Infants with Congenital Diaphragmatic Hernia: A Novel Tool for Direct Assessment of Severity of Pulmonary Hypertension and Hypoplasia. Journal of Pediatrics, 2021, 239, 89-94.	1.8	3
77	Quantitative abdominal magnetic resonance imagingÂin childrenâ€"special considerations. Abdominal Radiology, 2022, 47, 3069-3077.	2.1	3
78	MRI-Based Characterization of Intestinal Motility in Children and Young Adults With Newly Diagnosed Ileal Crohn Disease Treated by Biologic Therapy: A Controlled Prospective Study. American Journal of Roentgenology, 2022, 219, 655-664.	2.2	3
79	Fast low angle spin-echo (FATE) imaging. Magnetic Resonance Imaging, 1987, 5, 557-558.	1.8	2
80	Using Functional Connectivity Magnetic Resonance Imaging to Measure Brain Connectivity in Preterm Infants. Nursing Research, 2017, 66, 490-495.	1.7	2
81	Relationship between magnetic resonance imaging spleen T1 relaxation and other radiologic and clinical biomarkers of liver fibrosis in children and young adults with autoimmune liver disease. Abdominal Radiology, 2020, 45, 3709-3715.	2.1	2
82	Agreement Between Automated and Clinically-Reported Manual ROIBased MR Elastography Liver Stiffness Measurements in Children and Young Adults. American Journal of Roentgenology, 2021, , 1-2.	2.2	2
83	Performance of Câ€SENSE Accelerated Rapid Liver Shear Stiffness Measurement Using Displacement Wave Polarityâ€Inversion Motion Encoding: An Evaluation Study. Journal of Magnetic Resonance Imaging, 2022, , .	3.4	2
84	The need for very short echo times in fast MRI. Magnetic Resonance Imaging, 1987, 5, 537-538.	1.8	1
85	Fusing acceleration and saturation techniques with wave amplitude labeling of timeâ€shifted zeniths MR elastography. Magnetic Resonance in Medicine, 2021, 85, 1552-1560.	3.0	1
86	Editorial for â€œQuality Control of <scp>MR</scp> Elastography Using Percent Measurable Liver Volume Estimationâ€. Journal of Magnetic Resonance Imaging, 2022, 55, 1900-1901.	3.4	1
87	Integrating neuroimaging biomarkers into the multicentre, high-dose erythropoietin for asphyxia and encephalopathy (HEAL) trial: rationale, protocol and harmonisation. BMJ Open, 2021, 11, e043852.	1.9	1
88	Quantitative cardiopulmonary magnetic resonance imaging in neonatalÂcongenital diaphragmatic hernia. Pediatric Radiology, 2022, 52, 2306-2318.	2.0	1
89	A comparison of per unit time for various fast sequences. Magnetic Resonance Imaging, 1987, 5, 517-519.	1.8	0
90	The significance of fast imaging methods to oxygen-17 based contrast agents. Magnetic Resonance Imaging, 1987, 5, 556-557.	1.8	0

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91	Timeâ€efficient slabâ€selective water excitation for 3D MRI. Magnetic Resonance in Medicine, 2012, 67, 127-136.	3.0	0
92	Editorial for â€œHepatic Iron Quantification Using a <scp>Freeâ€Breathing 3D</scp> Radial Gradient Echo Technique and Validation with a <scp>2D</scp> Biopsyâ€Calibrated <scp>R2</scp>* Relaxometry Methodâ€. Journal of Magnetic Resonance Imaging, 2022, 55, 1417-1418.	3.4	0