

John C Gore

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.

280
papers

20,025
citations

68
h-index

135
g-index

292
ext. papers

22,329
ext. citations

5.4
avg, IF

6.65
L-index

| # | Paper | IF | Citations |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 280 | Sex differences in the functional organization of the brain for language. <i>Nature</i> , 1995 , 373, 607-9 | 50.4 | 1130 |
| 279 | Expertise for cars and birds recruits brain areas involved in face recognition. <i>Nature Neuroscience</i> , 2000 , 3, 191-7 | 25.5 | 1023 |
| 278 | Activation of the middle fusiform face area increases with expertise in recognizing novel objects. <i>Nature Neuroscience</i> , 1999 , 2, 568-73 | 25.5 | 878 |
| 277 | Abnormal ventral temporal cortical activity during face discrimination among individuals with autism and Asperger syndrome. <i>Archives of General Psychiatry</i> , 2000 , 57, 331-40 | | 738 |
| 276 | Disruption of posterior brain systems for reading in children with developmental dyslexia. <i>Biological Psychiatry</i> , 2002 , 52, 101-10 | 7.9 | 736 |
| 275 | Activation of the left amygdala to a cognitive representation of fear. <i>Nature Neuroscience</i> , 2001 , 4, 437-41 | 15.5 | 710 |
| 274 | Performance on indirect measures of race evaluation predicts amygdala activation. <i>Journal of Cognitive Neuroscience</i> , 2000 , 12, 729-38 | 3.1 | 703 |
| 273 | The fusiform "face area" is part of a network that processes faces at the individual level. <i>Journal of Cognitive Neuroscience</i> , 2000 , 12, 495-504 | 3.1 | 663 |
| 272 | Brain connectivity related to working memory performance. <i>Journal of Neuroscience</i> , 2006 , 26, 13338-43 | 6.6 | 660 |
| 271 | Detection of functional connectivity using temporal correlations in MR images. <i>Human Brain Mapping</i> , 2002 , 15, 247-62 | 5.9 | 554 |
| 270 | Intravascular susceptibility contrast mechanisms in tissues. <i>Magnetic Resonance in Medicine</i> , 1994 , 31, 9-21 | 4.4 | 459 |
| 269 | Theoretical model for water diffusion in tissues. <i>Magnetic Resonance in Medicine</i> , 1995 , 33, 697-712 | 4.4 | 429 |
| 268 | Analysis and correction of motion artifacts in diffusion weighted imaging. <i>Magnetic Resonance in Medicine</i> , 1994 , 32, 379-87 | 4.4 | 345 |
| 267 | The angular gyrus in developmental dyslexia: task-specific differences in functional connectivity within posterior cortex. <i>Psychological Science</i> , 2000 , 11, 51-6 | 7.9 | 304 |
| 266 | Assessing functional connectivity in the human brain by fMRI. <i>Magnetic Resonance Imaging</i> , 2007 , 25, 1347-57 | 3.3 | 301 |
| 265 | Dynamic Contrast Enhanced Magnetic Resonance Imaging in Oncology: Theory, Data Acquisition, Analysis, and Examples. <i>Current Medical Imaging</i> , 2009 , 3, 91-107 | 1.2 | 273 |
| 264 | Integration of quantitative DCE-MRI and ADC mapping to monitor treatment response in human breast cancer: initial results. <i>Magnetic Resonance Imaging</i> , 2007 , 25, 1-13 | 3.3 | 259 |

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|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
| 263 | The loss of small objects in variable TE imaging: implications for FSE, RARE, and EPI. <i>Magnetic Resonance in Medicine</i> , 1992 , 28, 9-24 | 4.4 | 213 |
| 262 | Event-related fMRI of auditory and visual oddball tasks. <i>Magnetic Resonance Imaging</i> , 2000 , 18, 495-502 | 3.3 | 172 |
| 261 | Oscillating gradient measurements of water diffusion in normal and globally ischemic rat brain. <i>Magnetic Resonance in Medicine</i> , 2003 , 49, 206-15 | 4.4 | 159 |
| 260 | Cortical dysfunction in schizophrenia during auditory word and tone working memory demonstrated by functional magnetic resonance imaging. <i>Archives of General Psychiatry</i> , 1998 , 55, 1097-103 | | 157 |
| 259 | Dissociation of mnemonic and perceptual processes during spatial and nonspatial working memory using fMRI. <i>Human Brain Mapping</i> , 1998 , 6, 14-32 | 5.9 | 154 |
| 258 | Neonatal auditory activation detected by functional magnetic resonance imaging. <i>Magnetic Resonance Imaging</i> , 2001 , 19, 1-5 | 3.3 | 151 |
| 257 | Measurements of the temporal fMRI response of the human auditory cortex to trains of tones. <i>NeuroImage</i> , 1998 , 7, 185-98 | 7.9 | 145 |
| 256 | The relationship of anatomical and functional connectivity to resting-state connectivity in primate somatosensory cortex. <i>Neuron</i> , 2013 , 78, 1116-26 | 13.9 | 144 |
| 255 | Connectivity-behavior analysis reveals that functional connectivity between left BA39 and Broca's area varies with reading ability. <i>NeuroImage</i> , 2006 , 31, 513-9 | 7.9 | 143 |
| 254 | Preliminary evidence of improved verbal working memory performance and normalization of task-related frontal lobe activation in schizophrenia following cognitive exercises. <i>American Journal of Psychiatry</i> , 2000 , 157, 1694-7 | 11.9 | 138 |
| 253 | Correlations and dissociations between BOLD signal and P300 amplitude in an auditory oddball task: a parametric approach to combining fMRI and ERP. <i>Magnetic Resonance Imaging</i> , 2002 , 20, 319-25 | 3.3 | 130 |
| 252 | Functional MRI studies of auditory comprehension. <i>Human Brain Mapping</i> , 1998 , 6, 1-13 | 5.9 | 124 |
| 251 | Measurement of the point spread function in MRI using constant time imaging. <i>Magnetic Resonance in Medicine</i> , 1997 , 38, 733-40 | 4.4 | 117 |
| 250 | Diffusion-weighted imaging in tissues: theoretical models. <i>NMR in Biomedicine</i> , 1995 , 8, 289-96 | 4.4 | 117 |
| 249 | Characterization of tissue structure at varying length scales using temporal diffusion spectroscopy. <i>NMR in Biomedicine</i> , 2010 , 23, 745-56 | 4.4 | 111 |
| 248 | Physiological basis for BOLD MR signal changes due to neuronal stimulation: separation of blood volume and magnetic susceptibility effects. <i>Magnetic Resonance in Medicine</i> , 1998 , 40, 840-6 | 4.4 | 110 |
| 247 | On the origins of chemical exchange saturation transfer (CEST) contrast in tumors at 9.4 T. <i>NMR in Biomedicine</i> , 2014 , 27, 406-16 | 4.4 | 109 |
| 246 | Parametric design and correlational analyses help integrating fMRI and electrophysiological data during face processing. <i>NeuroImage</i> , 2004 , 22, 1587-95 | 7.9 | 109 |

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|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
| 245 | Brain morphology in normal and dyslexic children: the influence of sex and age. <i>Annals of Neurology</i> , 1994 , 35, 732-42 | 9.4 | 109 |
| 244 | Hypoinsulinemia regulates amphetamine-induced reverse transport of dopamine. <i>PLoS Biology</i> , 2007 , 5, e274 | 9.7 | 104 |
| 243 | Detection of synchronous brain activity in white matter tracts at rest and under functional loading. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 595-600 | 11.5 | 99 |
| 242 | Changes in functional connectivity of human MT/V5 with visual motion input. <i>NeuroReport</i> , 2004 , 15, 1315-9 | 1.7 | 98 |
| 241 | Effects of osmotically driven cell volume changes on diffusion-weighted imaging of the rat optic nerve. <i>Magnetic Resonance in Medicine</i> , 1996 , 35, 162-7 | 4.4 | 95 |
| 240 | Mapping mean axon diameter and axonal volume fraction by MRI using temporal diffusion spectroscopy. <i>NeuroImage</i> , 2014 , 103, 10-19 | 7.9 | 91 |
| 239 | Quantitative imaging of magnetization transfer using an inversion recovery sequence. <i>Magnetic Resonance in Medicine</i> , 2003 , 49, 501-5 | 4.4 | 90 |
| 238 | Principles and practice of functional MRI of the human brain. <i>Journal of Clinical Investigation</i> , 2003 , 112, 4-9 | 15.9 | 89 |
| 237 | Cerebral vascular malformations adjacent to sensorimotor and visual cortex. Functional magnetic resonance imaging studies before and after therapeutic intervention. <i>Stroke</i> , 1997 , 28, 1130-7 | 6.7 | 88 |
| 236 | Quantification of intravascular and extravascular contributions to BOLD effects induced by alteration in oxygenation or intravascular contrast agents. <i>Magnetic Resonance in Medicine</i> , 1998 , 40, 526-36 | 4.4 | 86 |
| 235 | Asymmetric spin-echo imaging of magnetically inhomogeneous systems: theory, experiment, and numerical studies. <i>Magnetic Resonance in Medicine</i> , 1998 , 40, 432-42 | 4.4 | 85 |
| 234 | Functional MR imaging of regional brain activation associated with the affective experience of pain. <i>American Journal of Roentgenology</i> , 2001 , 177, 1205-10 | 5.4 | 85 |
| 233 | Modulation of steady state functional connectivity in the default mode and working memory networks by cognitive load. <i>Human Brain Mapping</i> , 2011 , 32, 1649-59 | 5.9 | 83 |
| 232 | Antipsychotic drug-like effects of the selective M4 muscarinic acetylcholine receptor positive allosteric modulator VU0152100. <i>Neuropsychopharmacology</i> , 2014 , 39, 1578-93 | 8.7 | 81 |
| 231 | Physiologic basis for BOLD MR signal changes due to hypoxia/hyperoxia: separation of blood volume and magnetic susceptibility effects. <i>Magnetic Resonance in Medicine</i> , 1997 , 37, 953-6 | 4.4 | 81 |
| 230 | Development and evaluation of tracking algorithms for cardiac wall motion analysis using phase velocity MR imaging. <i>Magnetic Resonance in Medicine</i> , 1994 , 32, 33-42 | 4.4 | 80 |
| 229 | Cross hippocampal influence in mesial temporal lobe epilepsy measured with high temporal resolution functional magnetic resonance imaging. <i>Epilepsia</i> , 2011 , 52, 1741-9 | 6.4 | 78 |
| 228 | Sensitivity of MR diffusion measurements to variations in intracellular structure: effects of nuclear size. <i>Magnetic Resonance in Medicine</i> , 2009 , 61, 828-33 | 4.4 | 78 |

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|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----|
| 227 | An ROC approach for evaluating functional brain MR imaging and postprocessing protocols. <i>Magnetic Resonance in Medicine</i> , 1995 , 34, 57-64 | 4.4 | 78 |
| 226 | Changes in dietary iron exacerbate regional brain manganese accumulation as determined by magnetic resonance imaging. <i>Toxicological Sciences</i> , 2011 , 120, 146-53 | 4.4 | 77 |
| 225 | Magnetic resonance in the era of molecular imaging of cancer. <i>Magnetic Resonance Imaging</i> , 2011 , 29, 587-600 | 3.3 | 76 |
| 224 | Simultaneous recording of event-related auditory oddball response using transcranial near infrared optical topography and surface EEG. <i>NeuroImage</i> , 2002 , 16, 587-92 | 7.9 | 76 |
| 223 | Nuclear magnetic resonance signal from flowing nuclei in rapid imaging using gradient echoes. <i>Medical Physics</i> , 1988 , 15, 809-14 | 4.4 | 75 |
| 222 | Functional NMR imaging using fast spin echo at 1.5 T. <i>Magnetic Resonance in Medicine</i> , 1994 , 31, 686-90 | 4.4 | 74 |
| 221 | Iron-Loaded Magnetic Nanocapsules for pH-Triggered Drug Release and MRI Imaging. <i>Chemistry of Materials</i> , 2014 , 26, 2105-2112 | 9.6 | 71 |
| 220 | Diffusion-weighted multiple shot echo planar imaging of humans without navigation. <i>Magnetic Resonance in Medicine</i> , 1997 , 38, 82-8 | 4.4 | 71 |
| 219 | High-resolution maps of real and illusory tactile activation in primary somatosensory cortex in individual monkeys with functional magnetic resonance imaging and optical imaging. <i>Journal of Neuroscience</i> , 2007 , 27, 9181-91 | 6.6 | 71 |
| 218 | Barbiturate-reversible reduction of water diffusion coefficient in flurothyl-induced status epilepticus in rats. <i>Magnetic Resonance in Medicine</i> , 1995 , 33, 253-6 | 4.4 | 71 |
| 217 | In vivo measurement of ADC change due to intravascular susceptibility variation. <i>Magnetic Resonance in Medicine</i> , 1999 , 41, 236-40 | 4.4 | 70 |
| 216 | Brain activation associated with visual motion studied by functional magnetic resonance imaging in humans. <i>Human Brain Mapping</i> , 1994 , 2, 234-243 | 5.9 | 69 |
| 215 | Differentiation of somatosensory cortices by high-resolution fMRI at 7 T. <i>NeuroImage</i> , 2011 , 54, 1012-20 | 7.9 | 68 |
| 214 | Temporal diffusion spectroscopy: theory and implementation in restricted systems using oscillating gradients. <i>Magnetic Resonance in Medicine</i> , 2006 , 55, 75-84 | 4.4 | 68 |
| 213 | Relative contributions of chemical exchange and other relaxation mechanisms in protein solutions and tissues. <i>Magnetic Resonance in Medicine</i> , 1989 , 11, 295-308 | 4.4 | 68 |
| 212 | Spatio-temporal correlation tensors reveal functional structure in human brain. <i>PLoS ONE</i> , 2013 , 8, e82107 | 7.9 | 67 |
| 211 | Resting state functional connectivity in the human spinal cord. <i>ELife</i> , 2014 , 3, e02812 | 8.9 | 66 |
| 210 | Magnetic and optical properties of multifunctional core-shell radioluminescence nanoparticles. <i>Journal of Materials Chemistry</i> , 2012 , 22, 12802-12809 | | 64 |

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|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----|
| 209 | Monitoring the inflammatory response to infection through the integration of MALDI IMS and MRI. <i>Cell Host and Microbe</i> , 2012 , 11, 664-73 | 23.4 | 62 |
| 208 | Measuring brain manganese and iron accumulation in rats following 14 weeks of low-dose manganese treatment using atomic absorption spectroscopy and magnetic resonance imaging. <i>Toxicological Sciences</i> , 2008 , 103, 116-24 | 4.4 | 62 |
| 207 | Lateralization of temporal lobe epilepsy using resting functional magnetic resonance imaging connectivity of hippocampal networks. <i>Epilepsia</i> , 2012 , 53, 1628-35 | 6.4 | 61 |
| 206 | Simultaneous event-related potential and near-infrared spectroscopic studies of semantic processing. <i>Human Brain Mapping</i> , 2004 , 22, 110-5 | 5.9 | 60 |
| 205 | Localization of semantic processing using functional magnetic resonance imaging. <i>Human Brain Mapping</i> , 1994 , 2, 149-158 | 5.9 | 60 |
| 204 | Studies of restricted diffusion in heterogeneous media containing variations in susceptibility. <i>Magnetic Resonance in Medicine</i> , 1991 , 19, 276-84 | 4.4 | 60 |
| 203 | Reversible, reproducible reduction of brain water apparent diffusion coefficient by cortical electroshocks. <i>Magnetic Resonance in Medicine</i> , 1997 , 37, 1-6 | 4.4 | 59 |
| 202 | Increased hippocampal CA1 cerebral blood volume in schizophrenia. <i>NeuroImage: Clinical</i> , 2014 , 5, 359-64 | 6.3 | 58 |
| 201 | Resting state functional connectivity of the hippocampus associated with neurocognitive function in left temporal lobe epilepsy. <i>Human Brain Mapping</i> , 2014 , 35, 735-44 | 5.9 | 57 |
| 200 | The use of magnetic resonance imaging (MRI) in the study of manganese neurotoxicity. <i>NeuroToxicology</i> , 2006 , 27, 798-806 | 4.4 | 56 |
| 199 | Studies of factors affecting the design of NMR contrast agents: manganese in blood as a model system. <i>Magnetic Resonance in Medicine</i> , 1984 , 1, 396-409 | 4.4 | 56 |
| 198 | A new NOE-mediated MT signal at around -1.6ppm for detecting ischemic stroke in rat brain. <i>Magnetic Resonance Imaging</i> , 2016 , 34, 1100-6 | 3.3 | 54 |
| 197 | Visualizing functional pathways in the human brain using correlation tensors and magnetic resonance imaging. <i>Magnetic Resonance Imaging</i> , 2016 , 34, 8-17 | 3.3 | 52 |
| 196 | Compartmental study of diffusion and relaxation measured in vivo in normal and ischemic rat brain and trigeminal nerve. <i>Magnetic Resonance in Medicine</i> , 2000 , 43, 837-44 | 4.4 | 52 |
| 195 | New insights into tumor microstructure using temporal diffusion spectroscopy. <i>Cancer Research</i> , 2008 , 68, 5941-7 | 10.1 | 51 |
| 194 | Integrating functional and diffusion magnetic resonance imaging for analysis of structure-function relationship in the human language network. <i>PLoS ONE</i> , 2009 , 4, e6660 | 3.7 | 51 |
| 193 | Characterization of the hemodynamic response function in white matter tracts for event-related fMRI. <i>Nature Communications</i> , 2019 , 10, 1140 | 17.4 | 50 |
| 192 | Numerical study of water diffusion in biological tissues using an improved finite difference method. <i>Physics in Medicine and Biology</i> , 2007 , 52, N111-26 | 3.8 | 50 |

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|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----|
| 191 | Task demand modulation of steady-state functional connectivity to primary motor cortex. <i>Human Brain Mapping</i> , 2007 , 28, 663-72 | 5.9 | 50 |
| 190 | Quantitative characterization of tissue microstructure with temporal diffusion spectroscopy. <i>Journal of Magnetic Resonance</i> , 2009 , 200, 189-97 | 3 | 49 |
| 189 | Quantitative studies of magnetization transfer by selective excitation and T1 recovery. <i>Magnetic Resonance in Medicine</i> , 1997 , 38, 224-31 | 4.4 | 49 |
| 188 | Noninvasive Detection of Matrix Metalloproteinase Activity In Vivo using a Novel Magnetic Resonance Imaging Contrast Agent with a Solubility Switch. <i>Molecular Imaging</i> , 2007 , 6, 7290.2007.00035 | 3.7 | 49 |
| 187 | Injury alters intrinsic functional connectivity within the primate spinal cord. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 5991-6 | 11.5 | 48 |
| 186 | Quantification of cell size using temporal diffusion spectroscopy. <i>Magnetic Resonance in Medicine</i> , 2016 , 75, 1076-85 | 4.4 | 47 |
| 185 | A general model of microcirculatory blood flow effects in gradient sensitized MRI. <i>Medical Physics</i> , 1994 , 21, 539-45 | 4.4 | 46 |
| 184 | Principles and practice of functional MRI of the human brain. <i>Journal of Clinical Investigation</i> , 2003 , 112, 4-9 | 15.9 | 46 |
| 183 | In vivo imaging of cancer cell size and cellularity using temporal diffusion spectroscopy. <i>Magnetic Resonance in Medicine</i> , 2017 , 78, 156-164 | 4.4 | 45 |
| 182 | Functional MRI and multivariate autoregressive models. <i>Magnetic Resonance Imaging</i> , 2010 , 28, 1058-65 | 3.3 | 45 |
| 181 | Functional epileptic network in left mesial temporal lobe epilepsy detected using resting fMRI. <i>Epilepsy Research</i> , 2010 , 88, 168-78 | 3 | 45 |
| 180 | Turbulent flow effects on NMR imaging: measurement of turbulent intensity. <i>Medical Physics</i> , 1991 , 18, 1045-51 | 4.4 | 45 |
| 179 | High relaxivity MRI imaging reagents from bimodal star polymers. <i>Polymer Chemistry</i> , 2012 , 3, 390-398 | 4.9 | 44 |
| 178 | A method for determinism in short time series, and its application to stationary EEG. <i>IEEE Transactions on Biomedical Engineering</i> , 2002 , 49, 1374-9 | 5 | 44 |
| 177 | Modified oscillating gradient pulses for direct sampling of the diffusion spectrum suitable for imaging sequences. <i>Magnetic Resonance Imaging</i> , 2003 , 21, 279-85 | 3.3 | 44 |
| 176 | Quantitative imaging of magnetization transfer using multiple selective pulses. <i>Magnetic Resonance in Medicine</i> , 1999 , 41, 1065-72 | 4.4 | 44 |
| 175 | Robust expertise effects in right FFA. <i>Neuropsychologia</i> , 2014 , 63, 135-44 | 3.2 | 43 |
| 174 | Neuromodulation of sensory networks in monkey brain by focused ultrasound with MRI guidance and detection. <i>Scientific Reports</i> , 2018 , 8, 7993 | 4.9 | 43 |

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|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----|
| 173 | Functional connectivity disturbances of the ascending reticular activating system in temporal lobe epilepsy. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2017 , 88, 925-932 | 5.5 | 42 |
| 172 | Functional connectivity-based parcellation of amygdala using self-organized mapping: a data driven approach. <i>Human Brain Mapping</i> , 2014 , 35, 1247-60 | 5.9 | 41 |
| 171 | Dynamic B0 shimming at 7 T. <i>Magnetic Resonance Imaging</i> , 2011 , 29, 483-96 | 3.3 | 40 |
| 170 | Integrated molecular imaging reveals tissue heterogeneity driving host-pathogen interactions. <i>Science Translational Medicine</i> , 2018 , 10, | 17.5 | 39 |
| 169 | Measurement of tissue blood flow using intravascular relaxation agents and magnetic resonance imaging. <i>Magnetic Resonance in Medicine</i> , 1990 , 14, 242-8 | 4.4 | 39 |
| 168 | Magnetic resonance imaging of the cervical spinal cord in multiple sclerosis at 7T. <i>Multiple Sclerosis Journal</i> , 2016 , 22, 320-8 | 5 | 38 |
| 167 | Functional connectivity and activity of white matter in somatosensory pathways under tactile stimulations. <i>NeuroImage</i> , 2017 , 152, 371-380 | 7.9 | 38 |
| 166 | Imaging oxygen tension in liver and spleen by 19F NMR. <i>Magnetic Resonance in Medicine</i> , 1993 , 29, 446-58 | 4.4 | 38 |
| 165 | Metabolic state of the rat liver with ethanol: comparison of in vivo 31phosphorus nuclear magnetic resonance spectroscopy with freeze clamp assessment. <i>Hepatology</i> , 1987 , 7, 83-8 | 11.2 | 38 |
| 164 | Earlier detection of tumor treatment response using magnetic resonance diffusion imaging with oscillating gradients. <i>Magnetic Resonance Imaging</i> , 2011 , 29, 315-23 | 3.3 | 37 |
| 163 | Brain energy state and lactate metabolism during status epilepticus in the neonatal dog: in vivo 31P and 1H nuclear magnetic resonance study. <i>Pediatric Research</i> , 1991 , 29, 191-5 | 3.2 | 37 |
| 162 | Inhalable curcumin: offering the potential for translation to imaging and treatment of Alzheimer's disease. <i>Journal of Alzheimer's Disease</i> , 2015 , 44, 283-95 | 4.3 | 36 |
| 161 | Reproducibility of resting state spinal cord networks in healthy volunteers at 7 Tesla. <i>NeuroImage</i> , 2016 , 133, 31-40 | 7.9 | 36 |
| 160 | Dependence of temporal diffusion spectra on microstructural properties of biological tissues. <i>Magnetic Resonance Imaging</i> , 2011 , 29, 380-90 | 3.3 | 36 |
| 159 | Characterizing tumor response to chemotherapy at various length scales using temporal diffusion spectroscopy. <i>PLoS ONE</i> , 2012 , 7, e41714 | 3.7 | 36 |
| 158 | Spinal cord MRI at 7T. <i>NeuroImage</i> , 2018 , 168, 437-451 | 7.9 | 35 |
| 157 | Relating structural and functional brainstem connectivity to disease measures in epilepsy. <i>Neurology</i> , 2018 , 91, e67-e77 | 6.5 | 34 |
| 156 | Proximal nerve magnetization transfer MRI relates to disability in Charcot-Marie-Tooth diseases. <i>Neurology</i> , 2014 , 83, 1545-53 | 6.5 | 33 |

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|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----|
| 155 | Fast and robust measurement of microstructural dimensions using temporal diffusion spectroscopy. <i>Journal of Magnetic Resonance</i> , 2014 , 242, 4-9 | 3 | 33 |
| 154 | Diffusion-weighted NMR imaging changes caused by electrical activation of the brain. <i>NMR in Biomedicine</i> , 1995 , 8, 359-64 | 4-4 | 33 |
| 153 | Quantitative studies of hydrodynamic effects and cross-relaxation in protein solutions and tissues with proton and deuteron longitudinal relaxation times. <i>Magnetic Resonance in Medicine</i> , 1990 , 13, 192-203 | 4-4 | 33 |
| 152 | Functional MRI and resting state connectivity in white matter - a mini-review. <i>Magnetic Resonance Imaging</i> , 2019 , 63, 1-11 | 3-3 | 31 |
| 151 | Measurement of regional cerebral glucose uptake by magnetic resonance spin-lock imaging. <i>Magnetic Resonance Imaging</i> , 2014 , 32, 1078-84 | 3-3 | 31 |
| 150 | Computer simulation studies of the effects of dynamic shimming on susceptibility artifacts in EPI at high field. <i>Journal of Magnetic Resonance</i> , 2005 , 173, 10-22 | 3 | 31 |
| 149 | Improving measurement of functional connectivity through decreasing partial volume effects at 7 T. <i>NeuroImage</i> , 2012 , 59, 2511-7 | 7-9 | 30 |
| 148 | On the relationship between the apparent diffusion coefficient and extravascular extracellular volume fraction in human breast cancer. <i>Magnetic Resonance Imaging</i> , 2011 , 29, 630-8 | 3-3 | 30 |
| 147 | Time-Dependent Influence of Cell Membrane Permeability on MR Diffusion Measurements. <i>Magnetic Resonance in Medicine</i> , 2016 , 75, 1927-34 | 4-4 | 30 |
| 146 | Effects of isoflurane anesthesia on resting-state fMRI signals and functional connectivity within primary somatosensory cortex of monkeys. <i>Brain and Behavior</i> , 2016 , 6, e00591 | 3-4 | 30 |
| 145 | Noninvasive detection of matrix metalloproteinase activity in vivo using a novel magnetic resonance imaging contrast agent with a solubility switch. <i>Molecular Imaging</i> , 2007 , 6, 393-403 | 3-7 | 30 |
| 144 | Sex differences in sodium deposition in human muscle and skin. <i>Magnetic Resonance Imaging</i> , 2017 , 36, 93-97 | 3-3 | 29 |
| 143 | Functional networks in temporal-lobe epilepsy: a voxel-wise study of resting-state functional connectivity and gray-matter concentration. <i>Brain Connectivity</i> , 2013 , 3, 22-30 | 2-7 | 29 |
| 142 | Influence of cell cycle phase on apparent diffusion coefficient in synchronized cells detected using temporal diffusion spectroscopy. <i>Magnetic Resonance in Medicine</i> , 2011 , 65, 920-6 | 4-4 | 29 |
| 141 | Contributions of chemical exchange to T1 ρ dispersion in a tissue model. <i>Magnetic Resonance in Medicine</i> , 2011 , 66, 1563-71 | 4-4 | 29 |
| 140 | Dependence of BOLD signal change on tactile stimulus intensity in SI of primates. <i>Magnetic Resonance Imaging</i> , 2007 , 25, 784-94 | 3-3 | 29 |
| 139 | Network analysis of brain activations in working memory: behavior and age relationships. <i>Microscopy Research and Technique</i> , 2000 , 51, 64-74 | 2-8 | 29 |
| 138 | Increased hippocampal blood volume and normal blood flow in schizophrenia. <i>Psychiatry Research - Neuroimaging</i> , 2015 , 232, 219-25 | 2-9 | 28 |

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|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|----|
| 137 | Voxel-wise detection of functional networks in white matter. <i>NeuroImage</i> , 2018 , 183, 544-552 | 7.9 | 28 |
| 136 | Gadolinium-bearing red cells as blood pool MRI contrast agents. <i>Magnetic Resonance in Medicine</i> , 1998 , 40, 133-42 | 4.4 | 28 |
| 135 | Impact of transcytolemmal water exchange on estimates of tissue microstructural properties derived from diffusion MRI. <i>Magnetic Resonance in Medicine</i> , 2017 , 77, 2239-2249 | 4.4 | 27 |
| 134 | Sex differences in psychophysical and neurophysiological responses to pain in older adults: a cross-sectional study. <i>Biology of Sex Differences</i> , 2015 , 6, 25 | 9.3 | 27 |
| 133 | Distinct fine-scale fMRI activation patterns of contra- and ipsilateral somatosensory areas 3b and 1 in humans. <i>Human Brain Mapping</i> , 2014 , 35, 4841-57 | 5.9 | 26 |
| 132 | Development of 2dTCA for the detection of irregular, transient BOLD activity. <i>Human Brain Mapping</i> , 2008 , 29, 57-69 | 5.9 | 26 |
| 131 | Multiple sclerosis lesions affect intrinsic functional connectivity of the spinal cord. <i>Brain</i> , 2018 , 141, 1650-1664 | 11.64 | 25 |
| 130 | A model for the analysis of competitive relaxation effects of manganese and iron in vivo. <i>NMR in Biomedicine</i> , 2009 , 22, 391-404 | 4.4 | 25 |
| 129 | Cluster analysis detection of functional MRI activity in temporal lobe epilepsy. <i>Epilepsy Research</i> , 2007 , 76, 22-33 | 3 | 25 |
| 128 | Intravascular susceptibility agent effects on tissue transverse relaxation rates in vivo. <i>Magnetic Resonance in Medicine</i> , 2000 , 44, 909-14 | 4.4 | 25 |
| 127 | The Impact of Alzheimer's Disease on the Resting State Functional Connectivity of Brain Regions Modulating Pain: A Cross Sectional Study. <i>Journal of Alzheimer's Disease</i> , 2017 , 57, 71-83 | 4.3 | 24 |
| 126 | Effects of intracellular organelles on the apparent diffusion coefficient of water molecules in cultured human embryonic kidney cells. <i>Magnetic Resonance in Medicine</i> , 2011 , 65, 796-801 | 4.4 | 24 |
| 125 | Exchange-mediated contrast in CEST and spin-lock imaging. <i>Magnetic Resonance Imaging</i> , 2014 , 32, 28-40 | 9.3 | 23 |
| 124 | Contributions of chemical and diffusive exchange to T1 ρ dispersion. <i>Magnetic Resonance in Medicine</i> , 2013 , 69, 1357-66 | 4.4 | 23 |
| 123 | Measuring relative timings of brain activities using fMRI. <i>NeuroImage</i> , 2013 , 66, 436-48 | 7.9 | 23 |
| 122 | Molecular imaging without radiopharmaceuticals?. <i>Journal of Nuclear Medicine</i> , 2009 , 50, 999-1007 | 8.9 | 23 |
| 121 | Complications of nonlinear echo time spacing for measurement of T (2). <i>NMR in Biomedicine</i> , 2000 , 13, 1-7 | 4.4 | 23 |
| 120 | Effect of muscle glycogen content on exercise-induced changes in muscle T2 times. <i>Journal of Applied Physiology</i> , 1998 , 84, 1178-84 | 3.7 | 23 |

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|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----|
| 119 | Functional magnetic resonance imaging identifies abnormal visual cortical function in patients with occipital lobe epilepsy. <i>Epilepsia</i> , 1999 , 40, 1248-53 | 6.4 | 23 |
| 118 | Effects of anesthesia on resting state BOLD signals in white matter of non-human primates. <i>Magnetic Resonance Imaging</i> , 2016 , 34, 1235-1241 | 3.3 | 22 |
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