

Vasily L Yarnykh

List of Publications by Year in descending order

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78
papers

5,845
citations

87843

38
h-index

74108

75
g-index

80
all docs

80
docs citations

80
times ranked

4919
citing authors

#	ARTICLE	IF	CITATIONS
1	Actual flip-angle imaging in the pulsed steady state: A method for rapid three-dimensional mapping of the transmitted radiofrequency field. <i>Magnetic Resonance in Medicine</i> , 2007, 57, 192-200.	1.9	836
2	Quantitative Evaluation of Carotid Plaque Composition by In Vivo MRI. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2005, 25, 234-239.	1.1	549
3	Hemorrhage in the Atherosclerotic Carotid Plaque: A High-Resolution MRI Study. <i>Stroke</i> , 2004, 35, 1079-1084.	1.0	400
4	Improved suppression of plaque-mimicking artifacts in black-blood carotid atherosclerosis imaging using a multislice motion-sensitized driven-equilibrium (MSDE) turbo spin-echo (TSE) sequence. <i>Magnetic Resonance in Medicine</i> , 2007, 58, 973-981.	1.9	199
5	Neuroimaging, Behavioral, and Psychological Sequelae of Repetitive Combined Blast/Impact Mild Traumatic Brain Injury in Iraq and Afghanistan War Veterans. <i>Journal of Neurotrauma</i> , 2014, 31, 425-436.	1.7	181
6	Carotid Intraplaque Hemorrhage Imaging at 3.0-T MR Imaging: Comparison of the Diagnostic Performance of Three T1-weighted Sequences. <i>Radiology</i> , 2010, 254, 551-563.	3.6	179
7	Enhanced image quality in black-blood MRI using the improved motion-sensitized driven-equilibrium (iMSDE) sequence. <i>Journal of Magnetic Resonance Imaging</i> , 2010, 31, 1256-1263.	1.9	155
8	Pulsed Z-spectroscopic imaging of cross-relaxation parameters in tissues for human MRI: Theory and clinical applications. <i>Magnetic Resonance in Medicine</i> , 2002, 47, 929-939.	1.9	146
9	Optimal radiofrequency and gradient spoiling for improved accuracy of T_1 and T_2 measurements using fast steady-state techniques. <i>Magnetic Resonance in Medicine</i> , 2010, 63, 1610-1626.	1.9	137
10	Carotid plaque assessment using fast 3D isotropic resolution black-blood MRI. <i>Magnetic Resonance in Medicine</i> , 2011, 65, 627-637.	1.9	135
11	MRI of atherosclerosis in clinical trials. <i>NMR in Biomedicine</i> , 2006, 19, 636-654.	1.6	124
12	Multicontrast black-blood MRI of carotid arteries: Comparison between 1.5 and 3 tesla magnetic field strengths. <i>Journal of Magnetic Resonance Imaging</i> , 2006, 23, 691-698.	1.9	122
13	Fast macromolecular proton fraction mapping from a single off-resonance magnetization transfer measurement. <i>Magnetic Resonance in Medicine</i> , 2012, 68, 166-178.	1.9	119
14	T1-insensitive flow suppression using quadruple inversion-recovery. <i>Magnetic Resonance in Medicine</i> , 2002, 48, 899-905.	1.9	118
15	Fast bound pool fraction imaging of the in vivo rat brain: Association with myelin content and validation in the C6 glioma model. <i>NeuroImage</i> , 2011, 54, 2052-2065.	2.1	118
16	Multislice double inversion-recovery black-blood imaging with simultaneous slice reinversion. <i>Journal of Magnetic Resonance Imaging</i> , 2003, 17, 478-483.	1.9	110
17	Microbiota influence the development of the brain and behaviors in C57BL/6J mice. <i>PLoS ONE</i> , 2018, 13, e0201829.	1.1	107
18	Sample Size Calculation for Clinical Trials Using Magnetic Resonance Imaging for the Quantitative Assessment of Carotid Atherosclerosis. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2005, 7, 799-808.	1.6	105

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19	Cross-relaxation imaging reveals detailed anatomy of white matter fiber tracts in the human brain. <i>NeuroImage</i> , 2004, 23, 409-424.	2.1	103
20	Carotid Plaque Morphology and Composition: Initial Comparison between 1.5- and 3.0-T Magnetic Field Strengths. <i>Radiology</i> , 2008, 248, 550-560.	3.6	103
21	Intra- and interreader reproducibility of magnetic resonance imaging for quantifying the lipid-rich necrotic core is improved with gadolinium contrast enhancement. <i>Journal of Magnetic Resonance Imaging</i> , 2006, 24, 203-210.	1.9	91
22	Comparison between 2D and 3D high-resolution black-blood techniques for carotid artery wall imaging in clinically significant atherosclerosis. <i>Journal of Magnetic Resonance Imaging</i> , 2008, 27, 918-924.	1.9	83
23	Predictors of Surface Disruption with MR Imaging in Asymptomatic Carotid Artery Stenosis. <i>American Journal of Neuroradiology</i> , 2010, 31, 487-493.	1.2	79
24	Arterial Remodeling in the Subclinical Carotid Artery Disease. <i>JACC: Cardiovascular Imaging</i> , 2009, 2, 1381-1389.	2.3	76
25	MR Carotid Plaque Imaging and Contrast-Enhanced MR Angiography Identifies Lesions Associated with Recent Ipsilateral Thromboembolic Symptoms: An In Vivo Study at 3T. <i>American Journal of Neuroradiology</i> , 2010, 31, 1395-1402.	1.2	73
26	Scanâ€rescan reproducibility of carotid atherosclerotic plaque morphology and tissue composition measurements using multicontrast MRI at 3T. <i>Journal of Magnetic Resonance Imaging</i> , 2010, 31, 168-176.	1.9	72
27	Ferritin Overexpression for Noninvasive Magnetic Resonance Imagingâ€Based Tracking of Stem Cells Transplanted into the Heart. <i>Molecular Imaging</i> , 2010, 9, 7290.2010.00020.	0.7	68
28	Histological validation of fast macromolecular proton fraction mapping as a quantitative myelin imaging method in the cuprizone demyelination model. <i>Scientific Reports</i> , 2017, 7, 46686.	1.6	66
29	Fast Whole-Brain Three-dimensional Macromolecular Proton Fraction Mapping in Multiple Sclerosis. <i>Radiology</i> , 2015, 274, 210-220.	3.6	63
30	Accuracy and uniqueness of three in vivo measurements of atherosclerotic carotid plaque morphology with black blood MRI. <i>Magnetic Resonance in Medicine</i> , 2003, 50, 75-82.	1.9	58
31	Improvements in carotid plaque imaging using a new eightâ€element phased array coil at 3T. <i>Journal of Magnetic Resonance Imaging</i> , 2009, 30, 1209-1214.	1.9	55
32	Direct quantitative comparison between cross-relaxation imaging and diffusion tensor imaging of the human brain at 3.0T. <i>NeuroImage</i> , 2009, 47, 1568-1578.	2.1	53
33	Time-efficient, high-resolution, whole brain three-dimensional macromolecular proton fraction mapping. <i>Magnetic Resonance in Medicine</i> , 2016, 75, 2100-2106.	1.9	48
34	Reader and platform reproducibility for quantitative assessment of carotid atherosclerotic plaque using 1.5T Siemens, Philips, and General Electric scanners. <i>Journal of Magnetic Resonance Imaging</i> , 2007, 26, 344-352.	1.9	45
35	Simultaneous variable flip angleâ€actual flip angle imaging method for improved accuracy and precision of threeâ€dimensional T_1 and B_1 measurements. <i>Magnetic Resonance in Medicine</i> , 2012, 68, 54-64.	1.9	44
36	Effects of Fluoxetine on Hippocampal Neurogenesis and Neuroprotection in the Model of Global Cerebral Ischemia in Rats. <i>International Journal of Molecular Sciences</i> , 2018, 19, 162.	1.8	44

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37	Ferritin overexpression for noninvasive magnetic resonance imaging-based tracking of stem cells transplanted into the heart. <i>Molecular Imaging</i> , 2010, 9, 201-10.	0.7	42
38	Synthesis, structure, and fluxional behavior of 4-sila-, 4-germa-, and 4-stanna-3a,4,4a,8-tetrahydro-4,4,8,8-tetramethyl-s-indacenes. <i>Organometallics</i> , 1991, 10, 3739-3745.	1.1	41
39	Quantitative Imaging of White and Gray Matter Remyelination in the Cuprizone Demyelination Model Using the Macromolecular Proton Fraction. <i>Cells</i> , 2019, 8, 1204.	1.8	38
40	Quantitative assessment of demyelination in ischemic stroke in vivo using macromolecular proton fraction mapping. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2018, 38, 919-931.	2.4	37
41	Myelin development in cerebral gray and white matter during adolescence and late childhood. <i>NeuroImage</i> , 2021, 227, 117678.	2.1	37
42	Differences in carotid arterial morphology and composition between individuals with and without obstructive coronary artery disease: A cardiovascular magnetic resonance study. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2008, 10, 31.	1.6	36
43	Signal features of the atherosclerotic plaque at 3.0 Tesla versus 1.5 Tesla: Impact on automatic classification. <i>Journal of Magnetic Resonance Imaging</i> , 2008, 28, 987-995.	1.9	35
44	Quantitative Assessment of Normal Fetal Brain Myelination Using Fast Macromolecular Proton Fraction Mapping. <i>American Journal of Neuroradiology</i> , 2018, 39, 1341-1348.	1.2	35
45	High-resolution three-dimensional macromolecular proton fraction mapping for quantitative neuroanatomical imaging of the rodent brain in ultra-high magnetic fields. <i>NeuroImage</i> , 2017, 147, 985-993.	2.1	33
46	Micro magnetic resonance angiography of the finger in systemic sclerosis. <i>Rheumatology</i> , 2008, 47, 1239-1243.	0.9	30
47	Analysis and correction of biases in cross-relaxation MRI due to biexponential longitudinal relaxation. <i>Magnetic Resonance in Medicine</i> , 2014, 71, 830-838.	1.9	30
48	Feasibility of in vivo, multicontrast-weighted MR imaging of carotid atherosclerosis for multicenter studies. <i>Journal of Magnetic Resonance Imaging</i> , 2005, 21, 809-817.	1.9	27
49	Paclitaxel improves outcome from traumatic brain injury. <i>Brain Research</i> , 2015, 1618, 299-308.	1.1	27
50	Iron-Insensitive Quantitative Assessment of Subcortical Gray Matter Demyelination in Multiple Sclerosis Using the Macromolecular Proton Fraction. <i>American Journal of Neuroradiology</i> , 2018, 39, 618-625.	1.2	27
51	Direct comparison between apparent diffusion coefficient and macromolecular proton fraction as quantitative biomarkers of the human fetal brain maturation. <i>Journal of Magnetic Resonance Imaging</i> , 2019, 50, 52-61.	1.9	26
52	Magnetic Resonance Imaging Tracking of Graft Survival in the Infarcted Heart. <i>Journal of Cardiovascular Pharmacology and Therapeutics</i> , 2014, 19, 358-367.	1.0	25
53	Congenital medulloblastoma: Fetal and postnatal longitudinal observation with quantitative MRI. <i>Clinical Imaging</i> , 2018, 52, 172-176.	0.8	24
54	Simultaneous outer volume and blood suppression by quadruple inversion-recovery. <i>Magnetic Resonance in Medicine</i> , 2006, 55, 1083-1092.	1.9	21

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55	Quantification of MRI signal of transgenic grafts overexpressing ferritin in murine myocardial infarcts. <i>NMR in Biomedicine</i> , 2012, 25, 1187-1195.	1.6	18
56	pH-triggered delivery of magnetic nanoparticles depends on tumor volume. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2020, 23, 102086.	1.7	18
57	Macromolecular Proton Fraction as a Myelin Biomarker: Principles, Validation, and Applications. <i>Frontiers in Neuroscience</i> , 2022, 16, 819912.	1.4	17
58	Scan-to-Scan Repeatability and Impact of B_0 and B_1 Field Nonuniformity Corrections in Single-Point Whole-Brain Macromolecular Proton Fraction Mapping. <i>Journal of Magnetic Resonance Imaging</i> , 2020, 51, 1789-1798.	1.9	16
59	Time-Efficient Black Blood RCA Wall Imaging at 3T Using Improved Motion Sensitized Driven Equilibrium (iMSDE): Feasibility and Reproducibility. <i>PLoS ONE</i> , 2011, 6, e26567.	1.1	16
60	Fast macromolecular proton fraction mapping of the human liver <i>in vivo</i> for quantitative assessment of hepatic fibrosis. <i>NMR in Biomedicine</i> , 2015, 28, 1716-1725.	1.6	15
61	Immediate and delayed decrease of long term potentiation and memory deficits after neonatal intermittent hypoxia. <i>International Journal of Developmental Neuroscience</i> , 2019, 74, 27-37.	0.7	15
62	MRI of great vessel morphology and function in Ehlers-Danlos syndrome type IV. <i>International Journal of Cardiovascular Imaging</i> , 2008, 24, 519-528.	0.7	14
63	Global hypomyelination of the brain white and gray matter in schizophrenia: quantitative imaging using macromolecular proton fraction. <i>Translational Psychiatry</i> , 2021, 11, 365.	2.4	14
64	Efficient flow suppressed MRI improves interscan reproducibility of carotid atherosclerosis plaque burden measurements. <i>Journal of Magnetic Resonance Imaging</i> , 2010, 32, 452-458.	1.9	13
65	Long-term monitoring of chronic demyelination and remyelination in a rat ischemic stroke model using macromolecular proton fraction mapping. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2021, 41, 2856-2869.	2.4	11
66	Regiospecific mono-transmetalation of 4-stanna-3a,4,4a,8-tetrahydro-4,4,8,8-tetramethyl-s-indacenes. <i>Organometallics</i> , 1992, 11, 3462-3464.	1.1	7
67	Three-dimensional fast single-point macromolecular proton fraction mapping of the human brain at 0.5 Tesla. <i>Quantitative Imaging in Medicine and Surgery</i> , 2020, 10, 1441-1449.	1.1	6
68	Lineshape Analysis of Two-Dimensional "Accordion" NMR Spectra for Quantitative Study of Multisite Chemical Exchange. <i>Journal of Magnetic Resonance Series A</i> , 1993, 102, 131-136.	1.6	5
69	Improvements in digital vasculature observed using micro magnetic resonance angiography after high-dose immunosuppression for severe systemic sclerosis. <i>Bone Marrow Transplantation</i> , 2009, 44, 387-389.	1.3	5
70	Assessment of Heart Microstructure. <i>Circulation</i> , 2014, 129, 1720-1722.	1.6	5
71	Mechanisms and kinetics of the elementotropic rearrangements of tetrahydro-4,4,8,8-tetramethyl-4,8-disila-sym-indacene. <i>Russian Chemical Bulletin</i> , 1997, 46, 1228-1238.	0.4	4
72	High-Resolution Multi-Contrast MRI of the Carotid Artery Wall for Evaluation of Atherosclerotic Plaques. <i>Current Protocols in Magnetic Resonance Imaging</i> , 2003, 11, A1.4.1.	0.0	3

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73	Data-Driven Retrospective Correction of B_1 Field Inhomogeneity in Fast Macromolecular Proton Fraction and R_1 Mapping. IEEE Transactions on Medical Imaging, 2021, 40, 3473-3484.	5.4	3
74	Analytical Method of Correction of B_1 Errors in Mapping of Magnetization Transfer Ratio in Highfield Magnetic Resonance Tomography. Russian Physics Journal, 2015, 57, 1784-1788.	0.2	2
75	High-resolution three-dimensional quantitative map of the macromolecular proton fraction distribution in the normal rat brain. Data in Brief, 2017, 10, 381-384.	0.5	2
76	Comment on: Micro magnetic resonance angiography of the finger in systemic sclerosis. Rheumatology, 2008, 48, 321-321.	0.9	1
77	Tu-P9:379 Feasibility characterization of atherosclerotic plaque by magnetic resonance microscopy on the murine model of atherosclerosis. Atherosclerosis Supplements, 2006, 7, 267-268.	1.2	0
78	Iniencephaly: radiologic and pathomorphologic perinatal observation. Radiology Case Reports, 2021, 16, 201-204.	0.2	0