Vasily L Yarnykh

List of Publications by Year
in descending order

78	5,845	87723 38	74018 75
papers	citations	h-index	g-index

80	80	80	4919
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Macromolecular Proton Fraction as a Myelin Biomarker: Principles, Validation, and Applications. Frontiers in Neuroscience, 2022, 16, 819912.	1.4	17
2	Iniencephaly: radiologic and pathomorphologic perinatal observation. Radiology Case Reports, 2021, 16, 201-204.	0.2	0
3	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
4	Myelin development in cerebral gray and white matter during adolescence and late childhood. NeuroImage, 2021, 227, 117678.	2.1	37
5	Long-term monitoring of chronic demyelination and remyelination in a rat ischemic stroke model using macromolecular proton fraction mapping. Journal of Cerebral Blood Flow and Metabolism, 2021, 41, 2856-2869.	2.4	11
6	Global hypomyelination of the brain white and gray matter in schizophrenia: quantitative imaging using macromolecular proton fraction. Translational Psychiatry, 2021, 11, 365.	2.4	14
7	pH-triggered delivery of magnetic nanoparticles depends on tumor volume. Nanomedicine: Nanotechnology, Biology, and Medicine, 2020, 23, 102086.	1.7	18
8	Scanâ€“Rescan Repeatability and Impact of B₀ and B₁ Field Nonuniformity Corrections in Singleâ€Point Wholeâ€Brain Macromolecular Proton Fraction Mapping. Journal of Magnetic Resonance Imaging, 2020, 51, 1789-1798.	1.9	16
9	Three-dimensional fast single-point macromolecular proton fraction mapping of the human brain at 0.5 Tesla. Quantitative Imaging in Medicine and Surgery, 2020, 10, 1441-1449.	1.1	6
10	Quantitative Imaging of White and Gray Matter Remyelination in the Cuprizone Demyelination Model Using the Macromolecular Proton Fraction. Cells, 2019, 8, 1204.	1.8	38
11	Immediate and delayed decrease of long term potentiation and memory deficits after neonatal intermittent hypoxia. International Journal of Developmental Neuroscience, 2019, 74, 27-37.	0.7	15
12	Direct comparison between apparent diffusion coefficient and macromolecular proton fraction as quantitative biomarkers of the human fetal brain maturation. Journal of Magnetic Resonance Imaging, 2019, 50, 52-61.	1.9	26
13	Iron-Insensitive Quantitative Assessment of Subcortical Gray Matter Demyelination in Multiple Sclerosis Using the Macromolecular Proton Fraction. American Journal of Neuroradiology, 2018, 39, 618-625.	1.2	27
14	Quantitative assessment of demyelination in ischemic stroke inÂvivo using macromolecular proton fraction mapping. Journal of Cerebral Blood Flow and Metabolism, 2018, 38, 919-931.	2.4	37
15	Microbiota influence the development of the brain and behaviors in C57BL/6J mice. PLoS ONE, 2018, 13, e0201829.	1.1	107
16	Effects of Fluoxetine on Hippocampal Neurogenesis and Neuroprotection in the Model of Global Cerebral Ischemia in Rats. International Journal of Molecular Sciences, 2018, 19, 162.	1.8	44
17	Quantitative Assessment of Normal Fetal Brain Myelination Using Fast Macromolecular Proton Fraction Mapping. American Journal of Neuroradiology, 2018, 39, 1341-1348.	1.2	35
18	Congenital medulloblastoma: Fetal and postnatal longitudinal observation with quantitative MRI. Clinical Imaging, 2018, 52, 172-176.	0.8	24

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19	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
20	Histological validation of fast macromolecular proton fraction mapping as a quantitative myelin imaging method in the cuprizone demyelination model. Scientific Reports, 2017, 7, 46686.	1.6	66
21	High-resolution three-dimensional macromolecular proton fraction mapping for quantitative neuroanatomical imaging of the rodent brain in ultra-high magnetic fields. NeuroImage, 2017, 147, 985-993.	2.1	33
22	Time-efficient, high-resolution, whole brain three-dimensional macromolecular proton fraction mapping. Magnetic Resonance in Medicine, 2016, 75, 2100-2106.	1.9	48
23	Fast macromolecular proton fraction mapping of the human liverin vivofor quantitative assessment of hepatic fibrosis. NMR in Biomedicine, 2015, 28, 1716-1725.	1.6	15
24	Paclitaxel improves outcome from traumatic brain injury. Brain Research, 2015, 1618, 299-308.	1.1	27
25	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
26	Fast Whole-Brain Three-dimensional Macromolecular Proton Fraction Mapping in Multiple Sclerosis. Radiology, 2015, 274, 210-220.	3.6	63
27	Neuroimaging, Behavioral, and Psychological Sequelae of Repetitive Combined Blast/Impact Mild Traumatic Brain Injury in Iraq and Afghanistan War Veterans. Journal of Neurotrauma, 2014, 31, 425-436.	1.7	181
28	Magnetic Resonance Imaging Tracking of Graft Survival in the Infarcted Heart. Journal of Cardiovascular Pharmacology and Therapeutics, 2014, 19, 358-367.	1.0	25
29	Assessment of Heart Microstructure. Circulation, 2014, 129, 1720-1722.	1.6	5
30	Analysis and correction of biases in crossâ€relaxation MRI due to biexponential longitudinal relaxation. Magnetic Resonance in Medicine, 2014, 71, 830-838.	1.9	30
31	Simultaneous variable flip angleâ€“actual flip angle imaging method for improved accuracy and precision of threeâ€dimensional T₁ and B₁ measurements. Magnetic Resonance in Medicine, 2012, 68, 54-64.	1.9	44
32	Fast macromolecular proton fraction mapping from a single offâ€resonance magnetization transfer measurement. Magnetic Resonance in Medicine, 2012, 68, 166-178.	1.9	119
33	Quantification of MRI signal of transgenic grafts overexpressing ferritin in murine myocardial infarcts. NMR in Biomedicine, 2012, 25, 1187-1195.	1.6	18
34	Fast bound pool fraction imaging of the in vivo rat brain: Association with myelin content and validation in the C6 glioma model. NeuroImage, 2011, 54, 2052-2065.	2.1	118
35	Carotid plaque assessment using fast 3D isotropic resolution blackâ€blood MRI. Magnetic Resonance in Medicine, 2011, 65, 627-637.	1.9	135
36	Time-Efficient Black Blood RCA Wall Imaging at 3T Using Improved Motion Sensitized Driven Equilibrium (iMSDE): Feasibility and Reproducibility. PLoS ONE, 2011, 6, e26567.	1.1	16

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37	MR Carotid Plaque Imaging and Contrast-Enhanced MR Angiography Identifies Lesions Associated with Recent Ipsilateral Thromboembolic Symptoms: An In Vivo Study at 3T. American Journal of Neuroradiology, 2010, 31, 1395-1402.	1.2	73
38	Predictors of Surface Disruption with MR Imaging in Asymptomatic Carotid Artery Stenosis. American Journal of Neuroradiology, 2010, 31, 487-493.	1.2	79
39	Scanâ€rescan reproducibility of carotid atherosclerotic plaque morphology and tissue composition measurements using multicontrast MRI at 3T. Journal of Magnetic Resonance Imaging, 2010, 31, 168-176.	1.9	72
40	Enhanced image quality in blackâ€blood MRI using the improved motionâ€sensitized drivenâ€equilibrium (iMSDE) sequence. Journal of Magnetic Resonance Imaging, 2010, 31, 1256-1263.	1.9	155
41	Efficient flow suppressed MRI improves interscan reproducibility of carotid atherosclerosis plaque burden measurements. Journal of Magnetic Resonance Imaging, 2010, 32, 452-458.	1.9	13
42	Optimal radiofrequency and gradient spoiling for improved accuracy of T₁ and B₁ measurements using fast steadyâ€state techniques. Magnetic Resonance in Medicine, 2010, 63, 1610-1626.	1.9	137
43	Ferritin Overexpression for Noninvasive Magnetic Resonance Imagingâ€“Based Tracking of Stem Cells Transplanted into the Heart. Molecular Imaging, 2010, 9, 7290.2010.00020.	0.7	68
44	Carotid Intraplaque Hemorrhage Imaging at 3.0-T MR Imaging: Comparison of the Diagnostic Performance of Three T1-weighted Sequences. Radiology, 2010, 254, 551-563.	3.6	179
45	Ferritin overexpression for noninvasive magnetic resonance imaging-based tracking of stem cells transplanted into the heart. Molecular Imaging, 2010, 9, 201-10.	0.7	42
46	Improvements in carotid plaque imaging using a new eightâ€element phased array coil at 3T. Journal of Magnetic Resonance Imaging, 2009, 30, 1209-1214.	1.9	55
47	Improvements in digital vasculature observed using micro magnetic resonance angiography after high-dose immunosuppression for severe systemic sclerosis. Bone Marrow Transplantation, 2009, 44, 387-389.	1.3	5
48	Arterial Remodeling in the Subclinical Carotid Artery Disease. JACC: Cardiovascular Imaging, 2009, 2, 1381-1389.	2.3	76
49	Direct quantitative comparison between cross-relaxation imaging and diffusion tensor imaging of the human brain at 3.0ÂT. NeuroImage, 2009, 47, 1568-1578.	2.1	53
50	MRI of great vessel morphology and function in Ehlers-Danlos syndrome type IV. International Journal of Cardiovascular Imaging, 2008, 24, 519-528.	0.7	14
51	Differences in carotid arterial morphology and composition between individuals with and without obstructive coronary artery disease: A cardiovascular magnetic resonance study. Journal of Cardiovascular Magnetic Resonance, 2008, 10, 31.	1.6	36
52	Comparison between 2D and 3D highâ€resolution blackâ€blood techniques for carotid artery wall imaging in clinically significant atherosclerosis. Journal of Magnetic Resonance Imaging, 2008, 27, 918-924.	1.9	83
53	Signal features of the atherosclerotic plaque at 3.0 Tesla versus 1.5 Tesla: Impact on automatic classification. Journal of Magnetic Resonance Imaging, 2008, 28, 987-995.	1.9	35
54	Micro magnetic resonance angiography of the finger in systemic sclerosis. Rheumatology, 2008, 47, 1239-1243.	0.9	30

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55	Carotid Plaque Morphology and Composition: Initial Comparison between 1.5- and 3.0-T Magnetic Field Strengths. Radiology, 2008, 248, 550-560.	3.6	103
56	Comment on: Micro magnetic resonance angiography of the finger in systemic sclerosis. Rheumatology, 2008, 48, 321-321.	0.9	1
57	Actual flip-angle imaging in the pulsed steady state: A method for rapid three-dimensional mapping of the transmitted radiofrequency field. Magnetic Resonance in Medicine, 2007, 57, 192-200.	1.9	836
58	Improved suppression of plaqueâ€mimicking artifacts in blackâ€blood carotid atherosclerosis imaging using a multislice motionâ€sensitized drivenâ€equilibrium (MSDE) turbo spinâ€echo (TSE) sequence. Magnetic Resonance in Medicine, 2007, 58, 973-981.	1.9	199
59	Reader and platform reproducibility for quantitative assessment of carotid atherosclerotic plaque using 1.5T Siemens, Philips, and General Electric scanners. Journal of Magnetic Resonance Imaging, 2007, 26, 344-352.	1.9	45
60	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
61	MRI of atherosclerosis in clinical trials. NMR in Biomedicine, 2006, 19, 636-654.	1.6	124
62	Simultaneous outer volume and blood suppression by quadruple inversion-recovery. Magnetic Resonance in Medicine, 2006, 55, 1083-1092.	1.9	21
63	Multicontrast black-blood MRI of carotid arteries: Comparison between 1.5 and 3 tesla magnetic field strengths. Journal of Magnetic Resonance Imaging, 2006, 23, 691-698.	1.9	122
64	Intra- and interreader reproducibility of magnetic resonance imaging for quantifying the lipid-rich necrotic core is improved with gadolinium contrast enhancement. Journal of Magnetic Resonance Imaging, 2006, 24, 203-210.	1.9	91
65	Feasibility of in vivo, multicontrast-weighted MR imaging of carotid atherosclerosis for multicenter studies. Journal of Magnetic Resonance Imaging, 2005, 21, 809-817.	1.9	27
66	Quantitative Evaluation of Carotid Plaque Composition by In Vivo MRI. Arteriosclerosis, Thrombosis, and Vascular Biology, 2005, 25, 234-239.	1.1	549
67	Sample Size Calculation for Clinical Trials Using Magnetic Resonance Imaging for the Quantitative Assessment of Carotid Atherosclerosis. Journal of Cardiovascular Magnetic Resonance, 2005, 7, 799-808.	1.6	105
68	Hemorrhage in the Atherosclerotic Carotid Plaque: A High-Resolution MRI Study. Stroke, 2004, 35, 1079-1084.	1.0	400
69	Cross-relaxation imaging reveals detailed anatomy of white matter fiber tracts in the human brain. NeuroImage, 2004, 23, 409-424.	2.1	103
70	Multislice double inversion-recovery black-blood imaging with simultaneous slice reinversion. Journal of Magnetic Resonance Imaging, 2003, 17, 478-483.	1.9	110
71	Accuracy and uniqueness of three in vivo measurements of atherosclerotic carotid plaque morphology with black blood MRI. Magnetic Resonance in Medicine, 2003, 50, 75-82.	1.9	58
72	Highâ€Resolution Multiâ€Contrast MRI of the Carotid Artery Wall for Evaluation of Atherosclerotic Plaques. Current Protocols in Magnetic Resonance Imaging, 2003, 11, A1.4.1.	0.0	3

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73	Pulsed Z-spectroscopic imaging of cross-relaxation parameters in tissues for human MRI: Theory and clinical applications. Magnetic Resonance in Medicine, 2002, 47, 929-939.	1.9	146
74	T1-insensitive flow suppression using quadruple inversion-recovery. Magnetic Resonance in Medicine, 2002, 48, 899-905.	1.9	118
75	Mechanisms and kinetics of the elementotropic rearrangements of tetrahydro-4,4,8,8-tetramethyl-4,8-disila-sym-indacene. Russian Chemical Bulletin, 1997, 46, 1228-1238.	0.4	4
76	Lineshape Analysis of Two-Dimensional "Accordion" NMR Spectra for Quantitative Study of Multisite Chemical Exchange. Journal of Magnetic Resonance Series A, 1993, 102, 131-136.	1.6	5
77	Regiospecific mono-transmetalation of 4-stanna-3a,4,4a,8-tetrahydro-4,4,8,8-tetramethyl-s-indacenes. Organometallics, 1992, 11, 3462-3464.	1.1	7
78	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. Organometallics, 1991, 10, 3739-3745.	1.1	41