

Valerij G Kiselev

List of Publications by Year in descending order

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93
papers

5,652
citations

109137

35
h-index

88477

70
g-index

94
all docs

94
docs citations

94
times ranked

5860
citing authors

#	ARTICLE	IF	CITATIONS
1	Microstructure with diffusion MRI: what scale we are sensitive to?. Journal of Neuroscience Methods, 2021, 347, 108910.	1.3	15
2	Toward Quantification. Investigative Radiology, 2021, 56, 1-9.	3.5	9
3	Three-dimensional spatially resolved phase graph framework. Magnetic Resonance in Medicine, 2021, 86, 551-560.	1.9	4
4	Response to Comment on "Larmor Frequency in Heterogeneous Media". Journal of Magnetic Resonance, 2019, 308, 106556.	1.2	0
5	Larmor frequency dependence on structural anisotropy of magnetically heterogeneous media. Journal of Magnetic Resonance, 2019, 307, 106584.	1.2	10
6	Intra-axonal diffusivity in brain white matter. NeuroImage, 2019, 189, 543-550.	2.1	71
7	A unique analytical solution of the white matter standard model using linear and planar encodings. Magnetic Resonance in Medicine, 2019, 81, 3819-3825.	1.9	35
8	Comparison of automated and visual DWI ASPECTS in acute ischemic stroke. Journal of Neuroradiology, 2019, 46, 288-293.	0.6	6
9	Discrimination of epileptogenic lesions and perilesional white matter using diffusion tensor magnetic resonance imaging. Neuroradiology Journal, 2019, 32, 10-16.	0.6	3
10	Larmor frequency in heterogeneous media. Journal of Magnetic Resonance, 2019, 299, 168-175.	1.2	12
11	Quantifying brain microstructure with diffusion MRI: Theory and parameter estimation. NMR in Biomedicine, 2019, 32, e3998.	1.6	335
12	On modeling. Magnetic Resonance in Medicine, 2018, 79, 3172-3193.	1.9	286
13	Arterial input function in a dedicated slice for cerebral perfusion measurements in humans. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2018, 31, 439-448.	1.1	4
14	Model-free global tractography. NeuroImage, 2018, 174, 576-586.	2.1	7
15	The Larmor frequency shift in magnetically heterogeneous media depends on their mesoscopic structure. Magnetic Resonance in Medicine, 2018, 79, 1101-1110.	1.9	16
16	The absence of restricted water pool in brain white matter. NeuroImage, 2018, 182, 398-406.	2.1	59
17	Calculation of Larmor precession frequency in magnetically heterogeneous media. Concepts in Magnetic Resonance Part A: Bridging Education and Research, 2018, 47A, .	0.2	7
18	Effects of mesoscopic susceptibility and transverse relaxation on diffusion NMR. Journal of Magnetic Resonance, 2018, 293, 134-144.	1.2	24

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19	Transverse NMR relaxation in biological tissues. <i>NeuroImage</i> , 2018, 182, 149-168.	2.1	55
20	Fundamentals of diffusion MRI physics. <i>NMR in Biomedicine</i> , 2017, 30, e3602.	1.6	84
21	Distinct white matter alterations following severe stroke. <i>Neurology</i> , 2017, 88, 1546-1555.	1.5	40
22	Integrative Diffusion-Weighted Imaging and Radiogenomic Network Analysis of Glioblastoma multiforme. <i>Scientific Reports</i> , 2017, 7, 43523.	1.6	20
23	Automated Infarct Core Volumetry Within the Hypoperfused Tissue. <i>Journal of Computer Assisted Tomography</i> , 2017, 41, 515-520.	0.5	11
24	Mesoscopic imaging of glioblastomas: Are diffusion, perfusion and spectroscopic measures influenced by the radiogenetic phenotype?. <i>Neuroradiology Journal</i> , 2017, 30, 36-47.	0.6	11
25	Disentangling micro from mesostructure by diffusion MRI: A Bayesian approach. <i>NeuroImage</i> , 2017, 147, 964-975.	2.1	138
26	Molecular differences between cerebral blood volume and vessel size in glioblastoma multiforme. <i>Oncotarget</i> , 2017, 8, 11083-11093.	0.8	18
27	Gibbs ringing artifact removal based on local subvoxel shifts. <i>Magnetic Resonance in Medicine</i> , 2016, 76, 1574-1581.	1.9	918
28	Do twisted laser beams evoke nuclear hyperpolarization?. <i>Journal of Magnetic Resonance</i> , 2016, 268, 58-67.	1.2	7
29	MR evaluation of vessel size imaging of human gliomas: Validation by histopathology. <i>Journal of Magnetic Resonance Imaging</i> , 2015, 42, 1117-1125.	1.9	17
30	A higher order visual neuron tuned to the spatial amplitude spectra of natural scenes. <i>Nature Communications</i> , 2015, 6, 8522.	5.8	18
31	Blood Tracer Kinetics in the Arterial Tree. <i>PLoS ONE</i> , 2014, 9, e109230.	1.1	7
32	Reduced anterior internal capsule white matter integrity in primary insomnia. <i>Human Brain Mapping</i> , 2014, 35, 3431-3438.	1.9	72
33	Quantitative cerebral blood flow with bolus tracking perfusion MRI: Measurements in porcine model and comparison with PET. <i>Magnetic Resonance in Medicine</i> , 2014, 72, 1723-1734.	1.9	5
34	Attention network specific alterations of structural connectivity in the undamaged white matter in acute neglect. <i>Human Brain Mapping</i> , 2014, 35, 4678-4692.	1.9	40
35	Diffusion properties of conventional and calcium sensitive MRI contrast agents in the rat cerebral cortex. <i>Contrast Media and Molecular Imaging</i> , 2014, 9, 71-82.	0.4	22
36	Local and Global Fiber Tractography in Patients with Epilepsy. <i>American Journal of Neuroradiology</i> , 2014, 35, 291-296.	1.2	19

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37	MesoFT: Unifying Diffusion Modelling and Fiber Tracking. Lecture Notes in Computer Science, 2014, 17, 201-208.	1.0	30
38	The Diffusion Dictionary in the Human Brain Is Short: Rotation Invariant Learning of Basis Functions. Mathematics and Visualization, 2014, , 47-55.	0.4	6
39	Arterial input function measurements for bolus tracking perfusion imaging in the brain. Magnetic Resonance in Medicine, 2013, 69, 771-780.	1.9	21
40	Dynamic hysteresis between gradient echo and spin echo attenuations in dynamic susceptibility contrast imaging. Magnetic Resonance in Medicine, 2013, 69, 981-991.	1.9	30
41	Global Tracking in Human Gliomas: A Comparison with Established Tracking Methods. Clinical Neuroradiology, 2013, 23, 263-275.	1.0	7
42	Fiber density estimation from single q-shell diffusion imaging by tensor divergence. NeuroImage, 2013, 77, 166-176.	2.1	15
43	Vascular changes after stroke in the rat: a longitudinal study using optimized magnetic resonance imaging. Contrast Media and Molecular Imaging, 2013, 8, 383-392.	0.4	21
44	Comment on "Magnetic resonance imaging by synergistic diffusion-diffraction patterns". Physical Review Letters, 2013, 110, 109801.	2.9	10
45	The Potential of Microvessel Density in Prediction of Infarct Growth: A Two-Month Experimental Study in Vessel Size Imaging. Cerebrovascular Diseases, 2012, 33, 303-309.	0.8	10
46	About the Geometry of Asymmetric Fiber Orientation Distributions. IEEE Transactions on Medical Imaging, 2012, 31, 1240-1249.	5.4	30
47	Fiber Density Estimation by Tensor Divergence. Lecture Notes in Computer Science, 2012, 15, 297-304.	1.0	0
48	Global fiber reconstruction becomes practical. NeuroImage, 2011, 54, 955-962.	2.1	277
49	Vessel Size Imaging Reveals Pathological Changes of Microvessel Density and Size in Acute Ischemia. Journal of Cerebral Blood Flow and Metabolism, 2011, 31, 1687-1695.	2.4	35
50	Fiber Continuity: An Anisotropic Prior for ODF Estimation. IEEE Transactions on Medical Imaging, 2011, 30, 1274-1283.	5.4	50
51	Tissue "blood exchange of extravascular longitudinal magnetization with account of intracompartmental diffusion. Magnetic Resonance in Medicine, 2011, 66, 1445-1455.	1.9	1
52	Surface-to-volume ratio with oscillating gradients. Journal of Magnetic Resonance, 2011, 210, 141-145.	1.2	50
53	On the design of filters for fourier and oSVD-based deconvolution in bolus tracking perfusion MRI. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2010, 23, 187-195.	1.1	16
54	Effective medium theory of a diffusion-weighted signal. NMR in Biomedicine, 2010, 23, 682-697.	1.6	119

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55	Extended phase graphs with anisotropic diffusion. Journal of Magnetic Resonance, 2010, 205, 276-285.	1.2	55
56	Structural Connectivity for Visuospatial Attention: Significance of Ventral Pathways. Cerebral Cortex, 2010, 20, 121-129.	1.6	155
57	The Cumulant Expansion: An Overarching Mathematical Framework For Understanding Diffusion NMR. , 2010, , 152-168.		42
58	Assessment of vascular remodeling under antiangiogenic therapy using DCEâ€MRI and vessel size imaging. Journal of Magnetic Resonance Imaging, 2009, 29, 1125-1133.	1.9	60
59	Analysis of partial volume effects on arterial input functions using gradient echo: A simulation study. Magnetic Resonance in Medicine, 2009, 61, 1300-1309.	1.9	43
60	Extraction of the first bolus passage in dynamic susceptibility contrast perfusion measurements. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2009, 22, 241-249.	1.1	14
61	Fully automated classification of HARDI in vivo data using a support vector machine. NeuroImage, 2009, 46, 642-651.	2.1	19
62	Transverse NMR relaxation in magnetically heterogeneous media. Journal of Magnetic Resonance, 2008, 195, 33-39.	1.2	28
63	Gibbs tracking: A novel approach for the reconstruction of neuronal pathways. Magnetic Resonance in Medicine, 2008, 60, 953-963.	1.9	133
64	The effect of impermeable boundaries of arbitrary geometry on the apparent diffusion coefficient. Journal of Magnetic Resonance, 2008, 194, 128-135.	1.2	16
65	Connecting and merging fibres: Pathway extraction by combining probability maps. NeuroImage, 2008, 43, 81-89.	2.1	64
66	Is the "biexponential diffusion" biexponential?. Magnetic Resonance in Medicine, 2007, 57, 464-469.	1.9	120
67	Effect of impermeable boundaries on diffusion-attenuated MR signal. Journal of Magnetic Resonance, 2006, 179, 223-233.	1.2	46
68	Theoretical model of intravascular paramagnetic tracers effect on tissue relaxation. Magnetic Resonance in Medicine, 2006, 56, 187-197.	1.9	119
69	Transverse relaxation effect of MRI contrast agents: A crucial issue for quantitative measurements of cerebral perfusion. Journal of Magnetic Resonance Imaging, 2005, 22, 693-696.	1.9	48
70	Vessel size imaging in humans. Magnetic Resonance in Medicine, 2005, 53, 553-563.	1.9	181
71	Theory of susceptibility-induced transverse relaxation in the capillary network in the diffusion narrowing regime. Magnetic Resonance in Medicine, 2005, 53, 564-573.	1.9	20
72	Effect of impermeable interfaces on apparent diffusion coefficient in heterogeneous media. Applied Magnetic Resonance, 2005, 29, 123-137.	0.6	6

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73	Effect of magnetic field gradients induced by microvasculature on NMR measurements of molecular self-diffusion in biological tissues. <i>Journal of Magnetic Resonance</i> , 2004, 170, 228-235.	1.2	35
74	Calculation of diffusion effect for arbitrary pulse sequences. <i>Journal of Magnetic Resonance</i> , 2003, 164, 205-211.	1.2	20
75	Single-shot T2* mapping with 3D compensation of local susceptibility gradients in multiple regions. <i>NeuroImage</i> , 2003, 18, 390-400.	2.1	45
76	Is the brain cortex a fractal?. <i>NeuroImage</i> , 2003, 20, 1765-1774.	2.1	128
77	Kiselev and Novikov Reply:. <i>Physical Review Letters</i> , 2003, 91, .	2.9	2
78	Transverse NMR Relaxation as a Probe of Mesoscopic Structure. <i>Physical Review Letters</i> , 2002, 89, 278101.	2.9	48
79	Effect of graded hypo- and hypercapnia on fMRI contrast in visual cortex: Quantification of T_2^* changes by multiecho EPI. <i>Magnetic Resonance in Medicine</i> , 2001, 46, 264-271.	1.9	97
80	On the theoretical basis of perfusion measurements by dynamic susceptibility contrast MRI. <i>Magnetic Resonance in Medicine</i> , 2001, 46, 1113-1122.	1.9	169
81	A new approach to measure single-event related brain activity using real-time fMRI: Feasibility of sensory, motor, and higher cognitive tasks. <i>Human Brain Mapping</i> , 2001, 12, 25-41.	1.9	78
82	Analytical model of susceptibility-induced MR signal dephasing: Effect of diffusion in a microvascular network. <i>Magnetic Resonance in Medicine</i> , 1999, 41, 499-509.	1.9	182
83	Enhancement of BOLD-contrast sensitivity by single-shot multi-echo functional MR imaging. <i>Magnetic Resonance in Medicine</i> , 1999, 42, 87-97.	1.9	336
84	Analytical Theory of Susceptibility Induced NMR Signal Dephasing in a Cerebrovascular Network. <i>Physical Review Letters</i> , 1998, 81, 5696-5699.	2.9	82
85	Forced topological nontrivial field configurations. <i>Physical Review D</i> , 1998, 57, 5174-5183.	1.6	17
86	What is the lightest excited state of the strongly selfcoupled Higgs field?. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1995, 342, 270-276.	1.5	0
87	False-vacuum decay induced by dense matter in two dimensions. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1993, 304, 214-219.	1.5	8
88	One-loop corrections to the bubble nucleation rate at finite temperature. <i>Physical Review D</i> , 1993, 48, 5648-5654.	1.6	56
89	False-vacuum decay induced by a two-particle collision in two dimensions. <i>Physical Review D</i> , 1992, 45, 2929-2932.	1.6	14
90	On quantum mechanical tunneling at high energy. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1992, 278, 454-456.	1.5	2

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91	Monopole in the Coleman-Weinberg model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1990, 249, 269-272.	1.5	4
92	On kink dynamics in media with increasing absorption optical bistability. Physica Status Solidi (B): Basic Research, 1989, 152, 667-674.	0.7	6
93	Quantum correction to the monopole mass. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1988, 213, 165-167.	1.5	21