

Seong-Gi Kim

List of Publications by Year in descending order

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196
papers

16,794
citations

11651

70
h-index

17105

122
g-index

203
all docs

203
docs citations

203
times ranked

10544
citing authors

#	ARTICLE	IF	CITATIONS
1	Role of chemical exchange on the relayed nuclear Overhauser enhancement signal in saturation transfer MRI. <i>Magnetic Resonance in Medicine</i> , 2022, 87, 365-376.	3.0	17
2	Neural mechanisms of pain relief through paying attention to painful stimuli. <i>Pain</i> , 2022, 163, 1130-1138.	4.2	4
3	Dissection of brain-wide resting-state and functional somatosensory circuits by fMRI with optogenetic silencing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	25
4	Deep brain stimulation of the anterior nuclei of the thalamus can alleviate seizure severity and induce hippocampal GABAergic neuronal changes in a pilocarpine-induced epileptic mouse brain. <i>Cerebral Cortex</i> , 2022, 32, 5530-5543.	2.9	3
5	Review and consensus recommendations on clinical ^3T -weighted imaging approaches at ^3T : Application to brain tumors. <i>Magnetic Resonance in Medicine</i> , 2022, 88, 546-574.	3.0	79
6	Role of anterior cingulate cortex inputs to periaqueductal gray for pain avoidance. <i>Current Biology</i> , 2022, 32, 2834-2847.e5.	3.9	22
7	Theory of chemical exchange saturation transfer MRI in the context of different magnetic fields. <i>NMR in Biomedicine</i> , 2022, 35, .	2.8	19
8	Layer-dependent functional connectivity methods. <i>Progress in Neurobiology</i> , 2021, 207, 101835.	5.7	67
9	Differential contribution of excitatory and inhibitory neurons in shaping neurovascular coupling in different epileptic neural states. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2021, 41, 1145-1161.	4.3	13
10	Postsynaptic activity of inhibitory neurons evokes hemodynamic fMRI responses. <i>NeuroImage</i> , 2021, 225, 117457.	4.2	9
11	Characteristics of fMRI responses to visual stimulation in anesthetized vs. awake mice. <i>NeuroImage</i> , 2021, 226, 117542.	4.2	46
12	An equal-TE ultrafast 3D gradient-echo imaging method with high tolerance to magnetic susceptibility artifacts: Application to BOLD functional MRI. <i>Magnetic Resonance in Medicine</i> , 2021, 85, 1986-2000.	3.0	2
13	Rapid three-dimensional steady-state chemical exchange saturation transfer magnetic resonance imaging. <i>Magnetic Resonance in Medicine</i> , 2021, 85, 1209-1221.	3.0	8
14	A neuroimaging biomarker for sustained experimental and clinical pain. <i>Nature Medicine</i> , 2021, 27, 174-182.	30.7	108
15	MRI Compatible, Customizable, and 3D-Printable Microdrive for Neuroscience Research. <i>ENeuro</i> , 2021, 8, ENEURO.0495-20.2021.	1.9	1
16	Excitatory neuronal CHD8 in the regulation of neocortical development and sensory-motor behaviors. <i>Cell Reports</i> , 2021, 34, 108780.	6.4	18
17	Early fMRI responses to somatosensory and optogenetic stimulation reflect neural information flow. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	37
18	Contribution of Excitatory and Inhibitory Neuronal Activity to BOLD fMRI. <i>Cerebral Cortex</i> , 2021, 31, 4053-4067.	2.9	38

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19	Characterization of brain-wide somatosensory BOLD fMRI in mice under dexmedetomidine/isoflurane and ketamine/xylazine. <i>Scientific Reports</i> , 2021, 11, 13110.	3.3	21
20	Mapping functional gradients of the striatal circuit using simultaneous microelectric stimulation and ultrahigh-field fMRI in non-human primates. <i>NeuroImage</i> , 2021, 236, 118077.	4.2	7
21	Improvement of sensitivity and specificity for laminar BOLD fMRI with double spin-echo EPI in humans at 7 T. <i>NeuroImage</i> , 2021, 241, 118435.	4.2	11
22	Time-dependent spatial specificity of high-resolution fMRI: insights into mesoscopic neurovascular coupling. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2021, 376, 20190623.	4.0	11
23	Model-Based Chemical Exchange Saturation Transfer MRI for Robust z-Spectrum Analysis. <i>IEEE Transactions on Medical Imaging</i> , 2020, 39, 283-293.	8.9	7
24	Excitation-Inhibition Imbalance Leads to Alteration of Neuronal Coherence and Neurovascular Coupling under Acute Stress. <i>Journal of Neuroscience</i> , 2020, 40, 9148-9162.	3.6	20
25	Feasibility of head-tilted brain scan to reduce susceptibility-induced signal loss in the prefrontal cortex in gradient echo-based imaging. <i>NeuroImage</i> , 2020, 223, 117265.	4.2	6
26	BOLD fMRI and hemodynamic responses to somatosensory stimulation in anesthetized mice: spontaneous breathing vs. mechanical ventilation. <i>NMR in Biomedicine</i> , 2020, 33, e4311.	2.8	20
27	Spatial Resolution of fMRI Techniques. , 2020, , 65-72.		2
28	Impact of sampling rate on statistical significance for single subject fMRI connectivity analysis. <i>Human Brain Mapping</i> , 2019, 40, 3321-3337.	3.6	12
29	Chemical exchange saturation transfer imaging of phosphocreatine in the muscle. <i>Magnetic Resonance in Medicine</i> , 2019, 81, 3476-3487.	3.0	43
30	Approximated analytical characterization of the steady-state chemical exchange saturation transfer (CEST) signals. <i>Magnetic Resonance in Medicine</i> , 2019, 82, 1876-1889.	3.0	12
31	A new ultrafast 3D gradient echo-based imaging method using quadratic-phase encoding. <i>Magnetic Resonance in Medicine</i> , 2019, 82, 237-250.	3.0	6
32	Mouse BOLD fMRI at ultrahigh field detects somatosensory networks including thalamic nuclei. <i>NeuroImage</i> , 2019, 195, 203-214.	4.2	48
33	Neurovascular Coupling under Chronic Stress Is Modified by Altered GABAergic Interneuron Activity. <i>Journal of Neuroscience</i> , 2019, 39, 10081-10095.	3.6	25
34	Gradient-echo and spin-echo blood oxygenation level-dependent functional MRI at ultrahigh fields of 9.4 and 15.2 Tesla. <i>Magnetic Resonance in Medicine</i> , 2019, 81, 1237-1246.	3.0	39
35	Dominance of layer-specific microvessel dilation in contrast-enhanced high-resolution fMRI: Comparison between hemodynamic spread and vascular architecture with CLARITY. <i>NeuroImage</i> , 2019, 197, 657-667.	4.2	17
36	MRI techniques to measure arterial and venous cerebral blood volume. <i>NeuroImage</i> , 2019, 187, 17-31.	4.2	75

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37	Foundations of layer-specific fMRI and investigations of neurophysiological activity in the laminarized neocortex and olfactory bulb of animal models. <i>NeuroImage</i> , 2019, 199, 718-729.	4.2	14
38	Optogenetic investigation of the variable neurovascular coupling along the interhemispheric circuits. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2018, 38, 627-640.	4.3	37
39	Macroscale variation in resting-state neuronal activity and connectivity assessed by simultaneous calcium imaging, hemodynamic imaging and electrophysiology. <i>NeuroImage</i> , 2018, 169, 352-362.	4.2	29
40	Biophysics of BOLD fMRI investigated with animal models. <i>Journal of Magnetic Resonance</i> , 2018, 292, 82-89.	2.1	18
41	Chemical exchange-sensitive spin-lock (<sc>CESL) MRI of glucose and analogs in brain tumors. <i>Magnetic Resonance in Medicine</i> , 2018, 80, 488-495.	3.0	37
42	Chemical exchange-sensitive spin-lock MRI of glucose analog 3-O-methyl-<sc>d</sc>-glucose in normal and ischemic brain. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2018, 38, 869-880.	4.3	29
43	Inhibitory Neuron Activity Contributions to Hemodynamic Responses and Metabolic Load Examined Using an Inhibitory Optogenetic Mouse Model. <i>Cerebral Cortex</i> , 2018, 28, 4105-4119.	2.9	71
44	Mouse fMRI under ketamine and xylazine anesthesia: Robust contralateral somatosensory cortex activation in response to forepaw stimulation. <i>NeuroImage</i> , 2018, 177, 30-44.	4.2	66
45	Enhancing sensitivity of pH-weighted MRI with combination of amide and guanidyl CEST. <i>NeuroImage</i> , 2017, 157, 341-350.	4.2	64
46	Chemical exchange-sensitive MRI of amide, amine and NOE at 9.4Â versus 15.2Â. <i>NMR in Biomedicine</i> , 2017, 30, e3740.	2.8	13
47	Phase imaging with multiple phase-cycled balanced steady-state free precession at 9.4Â. <i>NMR in Biomedicine</i> , 2017, 30, e3699.	2.8	0
48	Functional Connectivity of Resting Hemodynamic Signals in Submillimeter Orientation Columns of the Visual Cortex. <i>Brain Connectivity</i> , 2016, 6, 596-606.	1.7	7
49	Glucose metabolism-weighted imaging with chemical exchange-sensitive MRI of 2-deoxyglucose (2DG) in brain: Sensitivity and biological sources. <i>NeuroImage</i> , 2016, 143, 82-90.	4.2	35
50	Improved spatial accuracy of functional maps in the rat olfactory bulb using supervised machine learning approach. <i>NeuroImage</i> , 2016, 137, 1-8.	4.2	6
51	Retinal Structures and Visual Cortex Activity are Impaired Prior to Clinical Vision Loss in Glaucoma. <i>Scientific Reports</i> , 2016, 6, 31464.	3.3	80
52	A soft, transparent, freely accessible cranial window for chronic imaging and electrophysiology. <i>Scientific Reports</i> , 2016, 6, 27818.	3.3	113
53	Top-down influence on the visual cortex of the blind during sensory substitution. <i>NeuroImage</i> , 2016, 125, 932-940.	4.2	34
54	In Vivo Evaluation of White Matter Integrity and Anterograde Transport in Visual System After Excitotoxic Retinal Injury With Multimodal MRI and OCT. , 2015, 56, 3788.		27

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55	Compressed Sensing for fMRI: Feasibility Study on the Acceleration of Non-EPI fMRI at 9.4T. BioMed Research International, 2015, 2015, 1-24.	1.9	4
56	Neural and Hemodynamic Responses to Optogenetic and Sensory Stimulation in the Rat Somatosensory Cortex. Journal of Cerebral Blood Flow and Metabolism, 2015, 35, 922-932.	4.3	67
57	Layer-Specific fMRI Responses to Excitatory and Inhibitory Neuronal Activities in the Olfactory Bulb. Journal of Neuroscience, 2015, 35, 15263-15275.	3.6	61
58	Principles of BOLD Functional MRI. , 2015, , 3-16.		0
59	In Vivo Assessment of Aqueous Humor Dynamics Upon Chronic Ocular Hypertension and Hypotensive Drug Treatment Using Gadolinium-Enhanced MRI. , 2014, 55, 3747.		35
60	Neural and Hemodynamic Responses Elicited by Forelimb- and Photo-stimulation in Channelrhodopsin-2 Mice: Insights into the Hemodynamic Point Spread Function. Cerebral Cortex, 2014, 24, 2908-2919.	2.9	82
61	Mapping Brain Glucose Uptake with Chemical Exchange-Sensitive Spin-Lock Magnetic Resonance Imaging. Journal of Cerebral Blood Flow and Metabolism, 2014, 34, 1402-1410.	4.3	86
62	Advantages of chemical exchange-sensitive spin-lock (CESL) over chemical exchange saturation transfer (CEST) for hydroxyl- and amine-water proton exchange studies. NMR in Biomedicine, 2014, 27, 1313-1324.	2.8	56
63	Neuronal and Physiological Correlation to Hemodynamic Resting-State Fluctuations in Health and Disease. Brain Connectivity, 2014, 4, 727-740.	1.7	18
64	Magic Angle-Enhanced MRI of Fibrous Microstructures in Sclera and Cornea With and Without Intraocular Pressure Loading. , 2014, 55, 5662.		51
65	Regional Cerebral Blood Flow and Arterial Blood Volume and Their Reactivity to Hypercapnia in Hypertensive and Normotensive Rats. Journal of Cerebral Blood Flow and Metabolism, 2014, 34, 408-414.	4.3	16
66	Layer-dependent BOLD and CBV-weighted fMRI responses in the rat olfactory bulb. NeuroImage, 2014, 91, 237-251.	4.2	39
67	Compressed sensing fMRI using gradient-recalled echo and EPI sequences. NeuroImage, 2014, 92, 312-321.	4.2	38
68	Sensitivity and Source of Amine-Proton Exchange and Amide-Proton Transfer Magnetic Resonance Imaging in Cerebral Ischemia. Magnetic Resonance in Medicine, 2014, 71, 118-132.	3.0	71
69	Fast magnetization transfer and apparent T_1 imaging using a short saturation pulse with and without inversion preparation. Magnetic Resonance in Medicine, 2014, 71, 1264-1271.	3.0	4
70	MR imaging of the amide-proton transfer effect and the pH-insensitive nuclear overhauser effect at 9.4 T. Magnetic Resonance in Medicine, 2013, 69, 760-770.	3.0	238
71	The Challenge of Connecting the Dots in the B.R.A.I.N.. Neuron, 2013, 80, 270-274.	8.1	73
72	Characterization of non-hemodynamic functional signal measured by spin-lock fMRI. NeuroImage, 2013, 78, 385-395.	4.2	30

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73	Effects of the α_2 -adrenergic receptor agonist dexmedetomidine on neural, vascular and BOLD fMRI responses in the somatosensory cortex. <i>European Journal of Neuroscience</i> , 2013, 37, 80-95.	2.6	109
74	Cerebral blood volume MRI with intravascular superparamagnetic iron oxide nanoparticles. <i>NMR in Biomedicine</i> , 2013, 26, 949-962.	2.8	114
75	Spatiotemporal characteristics and vascular sources of neural-specific and -nonspecific fMRI signals at submillimeter columnar resolution. <i>NeuroImage</i> , 2013, 64, 91-103.	4.2	29
76	Spatial Resolution of fMRI Techniques. , 2013, , 17-24.		1
77	Evolution of the Dynamic Changes in Functional Cerebral Oxidative Metabolism from Tissue Mitochondria to Blood Oxygen. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2012, 32, 745-758.	4.3	27
78	Biophysical and Physiological Origins of Blood Oxygenation Level-Dependent fMRI Signals. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2012, 32, 1188-1206.	4.3	429
79	Quantitative chemical exchange sensitive MRI using irradiation with toggling inversion preparation. <i>Magnetic Resonance in Medicine</i> , 2012, 68, 1056-1064.	3.0	24
80	Magnetic resonance imaging of the Amine- ¹⁵ N Proton EXchange (APEX) dependent contrast. <i>NeuroImage</i> , 2012, 59, 1218-1227.	4.2	150
81	Perfusion MR imaging: Evolution from initial development to functional studies. <i>NeuroImage</i> , 2012, 62, 672-675.	4.2	5
82	Contributions of dynamic venous blood volume versus oxygenation level changes to BOLD fMRI. <i>NeuroImage</i> , 2012, 60, 2238-2246.	4.2	27
83	Simultaneous measurement of cerebral blood flow and transit time with turbo dynamic arterial spin labeling (Turbo-DASL): Application to functional studies. <i>Magnetic Resonance in Medicine</i> , 2012, 68, 762-771.	3.0	9
84	Sensitivity and specificity of high-resolution balanced steady-state free precession fMRI at high field of 9.4T. <i>NeuroImage</i> , 2011, 58, 168-176.	4.2	16
85	BOLD responses to different temporal frequency stimuli in the lateral geniculate nucleus and visual cortex: Insights into the neural basis of fMRI. <i>NeuroImage</i> , 2011, 58, 82-90.	4.2	35
86	Temporal Dynamics and Spatial Specificity of Arterial and Venous Blood Volume Changes during Visual Stimulation: Implication for Bold Quantification. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2011, 31, 1211-1222.	4.3	100
87	Spin-locking versus chemical exchange saturation transfer MRI for investigating chemical exchange process between water and labile metabolite protons. <i>Magnetic Resonance in Medicine</i> , 2011, 65, 1448-1460.	3.0	169
88	Principles of BOLD Functional MRI. , 2011, , 293-303.		5
89	Quantitative MRI of Cerebral Arterial Blood Volume. <i>Open Neuroimaging Journal</i> , 2011, 5, 136-145.	0.2	18
90	Changes in Cerebral Arterial, Tissue and Venous Oxygenation with Evoked Neural Stimulation: Implications for Hemoglobin-Based Functional Neuroimaging. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2010, 30, 428-439.	4.3	78

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91	Cerebral oxygen delivery and consumption during evoked neural activity. <i>Frontiers in Neuroenergetics</i> , 2010, 2, 11.	5.3	33
92	Multiscale Pattern Analysis of Orientation-Selective Activity in the Primary Visual Cortex. <i>Journal of Neuroscience</i> , 2010, 30, 325-330.	3.6	183
93	Change of the cerebrospinal fluid volume during brain activation investigated by T1-weighted fMRI. <i>NeuroImage</i> , 2010, 51, 1378-1383.	4.2	51
94	Frequency-dependent neural activity, CBF, and BOLD fMRI to somatosensory stimuli in isoflurane-anesthetized rats. <i>NeuroImage</i> , 2010, 52, 224-233.	4.2	68
95	Cortical layer-dependent arterial blood volume changes: Improved spatial specificity relative to BOLD fMRI. <i>NeuroImage</i> , 2010, 49, 1340-1349.	4.2	59
96	Principles of Functional MRI. , 2010, , 3-22.		5
97	Spatial Resolution of fMRI Techniques. , 2010, , 15-21.		2
98	Brain Switch for Reflex Micturition Control Detected by fMRI in Rats. <i>Journal of Neurophysiology</i> , 2009, 102, 2719-2730.	1.8	80
99	Dose-dependent effect of isoflurane on neurovascular coupling in rat cerebral cortex. <i>European Journal of Neuroscience</i> , 2009, 30, 242-250.	2.6	144
100	Imaging brain vasculature with BOLD microscopy: MR detection limits determined by in vivo two-photon microscopy. <i>Magnetic Resonance in Medicine</i> , 2008, 59, 855-865.	3.0	55
101	Functional MRI with magnetization transfer effects: Determination of BOLD and arterial blood volume changes. <i>Magnetic Resonance in Medicine</i> , 2008, 60, 1518-1523.	3.0	34
102	Improved cortical-layer specificity of vascular space occupancy fMRI with slab inversion relative to spin-echo BOLD at 9.4T. <i>NeuroImage</i> , 2008, 40, 59-67.	4.2	80
103	Trial-by-trial relationship between neural activity, oxygen consumption, and blood flow responses. <i>NeuroImage</i> , 2008, 40, 442-450.	4.2	48
104	Functional changes of apparent diffusion coefficient during visual stimulation investigated by diffusion-weighted gradient-echo fMRI. <i>NeuroImage</i> , 2008, 41, 801-812.	4.2	45
105	Dynamics of oxygen delivery and consumption during evoked neural stimulation using a compartment model and CBF and tissue PO ₂ measurements. <i>NeuroImage</i> , 2008, 42, 49-59.	4.2	27
106	Cortical layer-dependent dynamic blood oxygenation, cerebral blood flow and cerebral blood volume responses during visual stimulation. <i>NeuroImage</i> , 2008, 43, 1-9.	4.2	138
107	Lessons from fMRI about Mapping Cortical Columns. <i>Neuroscientist</i> , 2008, 14, 287-299.	3.5	20
108	Neural Interpretation of Blood Oxygenation Level-Dependent fMRI Maps at Submillimeter Columnar Resolution. <i>Journal of Neuroscience</i> , 2007, 27, 6892-6902.	3.6	95

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109	Improved spatial localization of post-stimulus BOLD undershoot relative to positive BOLD. <i>NeuroImage</i> , 2007, 34, 1084-1092.	4.2	72
110	Magnetic field and tissue dependencies of human brain longitudinal $^1\text{H}_2\text{O}$ relaxation in vivo. <i>Magnetic Resonance in Medicine</i> , 2007, 57, 308-318.	3.0	546
111	Sources of phase changes in BOLD and CBV-weighted fMRI. <i>Magnetic Resonance in Medicine</i> , 2007, 57, 520-527.	3.0	44
112	Arterial versus Total Blood Volume Changes during Neural Activity-Induced Cerebral Blood Flow Change: Implication for BOLD fMRI. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2007, 27, 1235-1247.	4.3	172
113	Spatial specificity of the enhanced dip inherently induced by prolonged oxygen consumption in cat visual cortex: Implication for columnar resolution functional MRI. <i>NeuroImage</i> , 2006, 30, 70-87.	4.2	38
114	Cortical layer-dependent BOLD and CBV responses measured by spin-echo and gradient-echo fMRI: Insights into hemodynamic regulation. <i>NeuroImage</i> , 2006, 30, 1149-1160.	4.2	239
115	Vascular dynamics and BOLD fMRI: CBF level effects and analysis considerations. <i>NeuroImage</i> , 2006, 32, 1642-1655.	4.2	56
116	S3f2-1 Physiological basis of functional MRI : Challenging spatial and temporal limits(S3-f2: "Advances) Tj ETQq0 0 0 rgBT /Overlock 10 T 0.1 0	0.1	0
117	Increases in Oxygen Consumption without Cerebral Blood Volume Change during Visual Stimulation under Hypotension Condition. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2006, 26, 1043-1051.	4.3	59
118	Quantification of cerebral arterial blood volume using arterial spin labeling with intravoxel incoherent motion-sensitive gradients. <i>Magnetic Resonance in Medicine</i> , 2006, 55, 1047-1057.	3.0	50
119	Source of nonlinearity in echo-time-dependent BOLD fMRI. <i>Magnetic Resonance in Medicine</i> , 2006, 55, 1281-1290.	3.0	36
120	Sources of functional apparent diffusion coefficient changes investigated by diffusion-weighted spin-echo fMRI. <i>Magnetic Resonance in Medicine</i> , 2006, 56, 1283-1292.	3.0	38
121	Spatial dependence of CBV-fMRI: a comparison between VASO and contrast agent based methods. , 2006, 2006, 25-8.		18
122	Relationship between Neural, Vascular, and BOLD Signals in Isoflurane-Anesthetized Rat Somatosensory Cortex. <i>Cerebral Cortex</i> , 2006, 17, 942-950.	2.9	187
123	Mapping Iso-Orientation Columns by Contrast Agent-Enhanced Functional Magnetic Resonance Imaging: Reproducibility, Specificity, and Evaluation by Optical Imaging of Intrinsic Signal. <i>Journal of Neuroscience</i> , 2006, 26, 11821-11832.	3.6	95
124	Principles of Functional MRI. , 2006, , 3-23.		4
125	Quantification of cerebral arterial blood volume and cerebral blood flow using MRI with modulation of tissue and vessel (MOTIVE) signals. <i>Magnetic Resonance in Medicine</i> , 2005, 54, 333-342.	3.0	75
126	Logarithmic transformation for high-field BOLD fMRI data. <i>Experimental Brain Research</i> , 2005, 165, 447-453.	1.5	10

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127	Spatial specificity of cerebral blood volume-weighted fMRI responses at columnar resolution. <i>NeuroImage</i> , 2005, 27, 416-424.	4.2	95
128	Cortical depth-dependent gradient-echo and spin-echo BOLD fMRI at 9.4T. <i>Magnetic Resonance in Medicine</i> , 2004, 51, 518-524.	3.0	118
129	Spatial specificity of high-resolution, spin-echo BOLD, and CBF fMRI at 7 T. <i>Magnetic Resonance in Medicine</i> , 2004, 51, 646-647.	3.0	9
130	Cortical layer-dependent CBF changes induced by neural activity. <i>International Congress Series</i> , 2004, 1265, 201-210.	0.2	3
131	Spatial relationship between neuronal activity and BOLD functional MRI. <i>NeuroImage</i> , 2004, 21, 876-885.	4.2	108
132	Hypercapnic normalization of BOLD fMRI: comparison across field strengths and pulse sequences. <i>NeuroImage</i> , 2004, 23, 613-624.	4.2	91
133	Ultrahigh field magnetic resonance imaging and spectroscopy. <i>Magnetic Resonance Imaging</i> , 2003, 21, 1263-1281.	1.8	218
134	Perfusion-based functional magnetic resonance imaging. <i>Concepts in Magnetic Resonance</i> , 2003, 16A, 16-27.	1.3	17
135	Spin-echo fMRI in humans using high spatial resolutions and high magnetic fields. <i>Magnetic Resonance in Medicine</i> , 2003, 49, 655-664.	3.0	284
136	Microvascular BOLD contribution at 4 and 7 T in the human brain: Gradient-echo and spin-echo fMRI with suppression of blood effects. <i>Magnetic Resonance in Medicine</i> , 2003, 49, 1019-1027.	3.0	331
137	High-resolution functional magnetic resonance imaging of the animal brain. <i>Methods</i> , 2003, 30, 28-41.	3.8	55
138	Spatial specificity of CBF and BOLD responses induced by neural activity. <i>International Congress Series</i> , 2002, 1235, 39-47.	0.2	0
139	Functional Mapping in the Cat Primary Visual Cortex Using High Magnetic Fields. , 2002, , 195-220.		1
140	Insights into new techniques for high resolution functional MRI. <i>Current Opinion in Neurobiology</i> , 2002, 12, 607-615.	4.2	61
141	Comparison of diffusion-weighted high-resolution CBF and spin-echo BOLD fMRI at 9.4 T. <i>Magnetic Resonance in Medicine</i> , 2002, 47, 736-741.	3.0	62
142	High-resolution, spin-echo BOLD, and CBF fMRI at 4 and 7 T. <i>Magnetic Resonance in Medicine</i> , 2002, 48, 589-593.	3.0	145
143	Origin of Negative Blood Oxygenation Level-Dependent fMRI Signals. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2002, 22, 908-917.	4.3	329
144	Effect of Basal Conditions on the Magnitude and Dynamics of the Blood Oxygenation Level-Dependent fMRI Response. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2002, 22, 1042-1053.	4.3	338

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145	Functional magnetic resonance imaging of the retina. <i>Investigative Ophthalmology and Visual Science</i> , 2002, 43, 1176-81.	3.3	58
146	The Effect of Stimulusâ€“Response Compatibility on Cortical Motor Activation. <i>NeuroImage</i> , 2001, 13, 1-14.	4.2	91
147	Relative changes of cerebral arterial and venous blood volumes during increased cerebral blood flow: Implications for BOLD fMRI. <i>Magnetic Resonance in Medicine</i> , 2001, 45, 791-800.	3.0	248
148	Perfusion imaging using dynamic arterial spin labeling (DASL). <i>Magnetic Resonance in Medicine</i> , 2001, 45, 1021-1029.	3.0	69
149	Effect of hyperoxia, hypercapnia, and hypoxia on cerebral interstitial oxygen tension and cerebral blood flow. <i>Magnetic Resonance in Medicine</i> , 2001, 45, 61-70.	3.0	119
150	Changes in Human Regional Cerebral Blood Flow and Cerebral Blood Volume during Visual Stimulation Measured by Positron Emission Tomography. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2001, 21, 608-612.	4.3	98
151	In Vivo Measurements of Brain Glucose Transport Using the Reversible Michaelisâ€“Menten Model and Simultaneous Measurements of Cerebral Blood Flow Changes during Hypoglycemia. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2001, 21, 653-663.	4.3	140
152	Functional Magnetic Resonance Imaging of Visual Object Construction and Shape Discrimination: Relations among Task, Hemispheric Lateralization, and Gender. <i>Journal of Cognitive Neuroscience</i> , 2001, 13, 72-89.	2.3	46
153	Functional MRI of calcium-dependent synaptic activity: Cross correlation with CBF and BOLD measurements. <i>Magnetic Resonance in Medicine</i> , 2000, 43, 383-392.	3.0	242
154	In vivo MR measurements of regional arterial and venous blood volume fractions in intact rat brain. <i>Magnetic Resonance in Medicine</i> , 2000, 43, 393-402.	3.0	111
155	Imaging blood flow in brain tumors using arterial spin labeling. <i>Magnetic Resonance in Medicine</i> , 2000, 44, 169-173.	3.0	109
156	Spatiotemporal dynamics of the BOLD fMRI signals: Toward mapping submillimeter cortical columns using the early negative response. <i>Magnetic Resonance in Medicine</i> , 2000, 44, 231-242.	3.0	181
157	Early Temporal Characteristics of Cerebral Blood Flow and Deoxyhemoglobin Changes during Somatosensory Stimulation. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2000, 20, 201-206.	4.3	157
158	High-resolution mapping of iso-orientation columns by fMRI. <i>Nature Neuroscience</i> , 2000, 3, 164-169.	14.8	366
159	Reply to â€œCan current fMRI techniques reveal the micro-architecture of cortex?â€: <i>Nature Neuroscience</i> , 2000, 3, 414-414.	14.8	20
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