Bo-Young Choe

List of Publications by Year
in descending order

60 papers	450 citations	840776 11 h-index	794594 19 g-index
61 all docs	61 docs citations	61 times ranked	791 citing authors

#	Article	IF	Citations
1	In vivo and ex vivo evidence for ketamineâ€induced hyperglutamatergic activity in the cerebral cortex of the rat: Potential relevance to schizophrenia. NMR in Biomedicine, 2011, 24, 1235-1242.	2.8	59
2	Regional metabolic alteration of Alzheimer's disease in mouse brain expressing mutant human APP-PS1 by 1H HR-MASâ˜†. Behavioural Brain Research, 2010, 211, 125-131.	2.2	42
3	Chronic repetitive transcranial magnetic stimulation enhances GABAergic and cholinergic metabolism in chronic unpredictable mild stress rat model: 1H-NMR spectroscopy study at 11.7 T. Neuroscience Letters, 2014, 572, 32-37.	2.1	28
4	Desipramine attenuates forced swim test-induced behavioral and neurochemical alterations in mice: An in vivo1H-MRS study at 9.4T. Brain Research, 2010, 1348, 105-113.	2.2	24
5	Ex vivo detection for chronic ethanol consumption-induced neurochemical changes in rats. Brain Research, 2012, 1429, 134-144.	2.2	21
6	Glutamine and Glutamate Complex, as Measured by Functional Magnetic Resonance Spectroscopy, Alters During Face-Name Association Task in Patients with Mild Cognitive Impairment and Alzheimerâ€™s Disease. Journal of Alzheimer's Disease, 2016, 52, 145-159.	2.6	19
7	Reversal of myo-inositol metabolic level in the left dorsolateral prefrontal cortex of rats exposed to forced swimming test following desipramine treatment: an in vivo localized 1H-MRS study at 4.7 T. Magnetic Resonance Imaging, 2010, 28, 1461-1467.	1.8	16
8	Quantitative assessment of neurochemical changes in a rat model of long-term alcohol consumption as detected by in vivo and ex vivo proton nuclear magnetic resonance spectroscopy. Neurochemistry International, 2013, 62, 502-509.	3.8	14
9	Development of a solenoid RF coil for animal imaging in 3â€‰T highâ€magneticâ€field MRI. Scanning, 2008, 30, 419-425.	1.5	13
10	Acute Restraint-Mediated Increases in Glutamate Levels in the Rat Brain: An In Vivo 1H-MRS Study at 4.7 T. Neurochemical Research, 2012, 37, 740-748.	3.3	12
11	Variation of the choline signal intensity in the dorsolateral prefrontal cortex of rats exposed to the forced swimming test as detected by in vivo 1H MR spectroscopy. Journal of Neuroscience Methods, 2007, 165, 89-94.	2.5	11
12	Dose-dependent influence of short-term intermittent ethanol intoxication on cerebral neurochemical changes in rats detected by ex vivo proton nuclear magnetic resonance spectroscopy. Neuroscience, 2014, 262, 107-117.	2.3	11
13	Decreased Glutamatergic Activity in the Frontal Cortex of Single Prolonged Stress Model: In vivo and Ex Vivo Proton MR Spectroscopy. Neurochemical Research, 2017, 42, 2218-2229.	3.3	11
14	High-fat diet-induced hyperglutamatergic activation of the hippocampus in mice: A proton magnetic resonance spectroscopy study at 9.4T. Neurochemistry International, 2018, 114, 10-17.	3.8	11
15	Development of a cone-shape phantom for multi-voxel MR spectroscopy. Journal of Neuroscience Methods, 2007, 162, 101-107.	2.5	9
16	Correlation of the R1 and R2 values of gadolinium-based MRI contrast media with the Î”Hounsfield unit of CT contrast media of identical concentration. Current Applied Physics, 2013, 13, 857-863.	2.4	8
17	Design of a fused phantom for quantitative evaluation of brain metabolites and enhanced quality assurance testing for magnetic resonance imaging and spectroscopy. Journal of Neuroscience Methods, 2015, 255, 75-84.	2.5	8
18	Metal artifacts with dental implants: Evaluation using a dedicated CT/MR oral phantom with registration of the CT and MR images. Scientific Reports, 2019, 9, 754.	3.3	8

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19	In vivo proton magnetic resonance spectroscopy of liver metabolites in non-alcoholic fatty liver disease in rats: T2 relaxation times in methylene protons. Chemistry and Physics of Lipids, 2015, 191, 1-7.	3.2	7
20	Investigating the metabolic alterations in a depressive-like rat model of chronic forced swim stress: An inÂvivo proton magnetic resonance spectroscopy study at 7T. Neurochemistry International, 2018, 116, 22-29.	3.8	7
21	Correlation between Hepatic Fat Content Using 3-Echo 3-D Dixon Method and Intravoxel Incoherent Motion (IVIM) Perfusion MR Imaging. Applied Magnetic Resonance, 2013, 44, 791-801.	1.2	6
22	Investigation of the neuroprotective effects of bee-venom acupuncture in a mouse model of Parkinsonâ€™s disease by using immunohistochemistry and In-vivo 1H magnetic resonance spectroscopy at 9.4 T. Journal of the Korean Physical Society, 2013, 62, 320-327.	0.7	6
23	Application of proton boron fusion to proton therapy: Experimental verification to detect the alpha particles. Applied Physics Letters, 2019, 115, .	3.3	6
24	Evaluation of Fractional Anisotropy and Apparent Diffusion Coefficient of BrocaÂ¡?s Area in Patients with ParkinsonÂ¡?s Disease: Quantitative MR Diffusion Tensor Imaging Study at 3 Tesla. Journal of the Korean Physical Society, 2011, 58, 343-348.	0.7	6
25	In vivo 1H MR spectroscopic findings in traumatic contusion of ICR mouse brain induced by fluid percussion injury. European Journal of Radiology, 2005, 55, 96-101.	2.6	5
26	Development of a QA phantom and protocol for proton magnetic resonance spectroscopy. Concepts in Magnetic Resonance Part B, 2009, 35B, 168-179.	0.7	5
27	Evaluation of an edge method for computed radiography and an electronic portal imaging device in radiotherapy: Image quality measurements. Journal of the Korean Physical Society, 2014, 65, 1976-1984.	0.7	5
28	Clinical assessment of the jaw-tracking function in IMRT for a brain tumor. Journal of the Korean Physical Society, 2015, 66, 295-300.	0.7	5
29	Comparison of noise power spectrum methodologies in measurements by using megavoltage X-ray energies. Journal of the Korean Physical Society, 2012, 60, 129-136.	0.7	4
30	Dosimetric Effects of Magnetic Resonance Imaging-assisted Radiotherapy Planning: Dose Optimization for Target Volumes at High Risk and Analytic Radiobiological Dose Evaluation. Journal of Korean Medical Science, 2015, 30, 1522.	2.5	4
31	Metabolic effects of light deprivation in the prefrontal cortex of rats with depression-like behavior: In vivo proton magnetic resonance spectroscopy at 7T. Brain Research, 2018, 1687, 95-103.	2.2	4
32	Synergy effect of alpha particles by using natural boron in proton therapy: Computational verification. AIP Advances, 2019, 9, .	1.3	4
33	Regional Absolute Quantification of the Neurochemical Profile of the Canine Brain: Investigation by Proton Nuclear Magnetic Resonance Spectroscopy and Tissue Extraction. Applied Magnetic Resonance, 2010, 38, 65-74.	1.2	3
34	Quality assurance for diffusion tensor imaging using an ACR phantom: Comparative analysis with 6, 15, and 32 directions at 1.5T and 3.0T MRI systems. Journal of the Korean Physical Society, 2014, 65, 103-110.	0.7	3
35	Quantitative evaluation of patient-specific quality assurance using online dosimetry system. Journal of the Korean Physical Society, 2018, 72, 312-319.	0.7	3
36	Fabrication and evaluation of bilateral Helmholtz radiofrequency coil for thermoâ€stable breast image with reduced artifacts. Journal of Applied Clinical Medical Physics, 2021, 23, e13483.	1.9	3

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37	Evaluation of Enhancement Effects as a Function of the Molarity of Gd-Based Contrast Media at 3.0 and 1.5ÂT: Based on the T1 Effective Pulse Sequence Parameter. Applied Magnetic Resonance, 2013, 44, 519-530.	1.2	2
38	Metabolic Alterations of the Zebrafish Brain after Acute Alcohol Treatment by1H Nuclear Magnetic Resonance Spectroscopy. Journal of Spectroscopy, 2013, 2013, 1-6.	1.3	2
39	Reduced dose uncertainty in MRI-based polymer gel dosimetry using parallel RF transmission with multiple RF sources. Journal of Radioanalytical and Nuclear Chemistry, 2014, 302, 533-541.	1.5	2
40	Performance of an edge block used in a configuration detector: Image quality measurements. Journal of the Korean Physical Society, 2014, 64, 732-739.	0.7	2
41	Fabrication of a customized bone scaffold using a homemade medical 3D printer for comminuted fractures. Journal of the Korean Physical Society, 2016, 69, 852-857.	0.7	2
42	Effects of repeated dizocilpine treatment on glutamatergic activity in the prefrontal cortex in an animal model of schizophrenia: An in vivo proton magnetic resonance spectroscopy study at 9.4T. Neuroscience Letters, 2017, 637, 57-63.	2.1	2
43	Improved quantitative fatty acid values with correction of T2 relaxation time in terminal methyl group: In vivo proton magnetic resonance spectroscopy at ultra high field in hepatic steatosis. Chemistry and Physics of Lipids, 2018, 212, 35-43.	3.2	2
44	Analysis of ovarian volume of Korean children and adolescents at magnetic resonance imaging. Pediatric Radiology, 2019, 49, 1320-1326.	2.0	2
45	An in vivo proton magnetic resonance spectroscopy study with optimized echo-time technique for concurrent quantification and T2 measurement targeting glutamate in the rat brain. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2020, 33, 735-746.	2.0	2
46	Evaluations of ACR MRI Phantom Images with SENSE Factors by Using the JPEG2000 Image Compression Technique. Journal of the Korean Physical Society, 2011, 58, 1178-1183.	0.7	2
47	MTR and In-vivo 1H-MRS studies on mouse brain with parkinsonâ€™s disease. Journal of the Korean Physical Society, 2012, 61, 1852-1859.	0.7	1
48	Evaluation of the modulation transfer function of megavoltage X-rays. Journal of the Korean Physical Society, 2014, 65, 1969-1975.	0.7	1
49	A comparative study between evaluation methods for quality control procedures for determining the accuracy of PET/CT registration. Journal of the Korean Physical Society, 2015, 67, 574-580.	0.7	1
50	Development of a hybrid magnetic resonance/computed tomography-compatible phantom for magnetic resonance guided radiotherapy. Journal of Radiation Research, 2020, 61, 314-324.	1.6	1
51	SU-E-I-63: In Vivo Proton MR Spectroscopy Quantification of Cerebral Neurochemical Changes in Acute Binge Ethanol Exposed Rats. Medical Physics, 2013, 40, 139-139.	3.0	1
52	Dosimetric evaluation with/without a flattening filter in stereotactic radiosurgery. , 0, , .		0
53	Dual-source parallel radiofrequency excitation ACR phantom magnetic resonance imaging at 3 T: Assessment of the effect of image quality on high-contrast spatial resolution, percent signal ghosting, and low-contrast object detectability in comparison with conventional single-source transmission. Journal of the Korean Physical Society, 2013, 63, 1630-1636.	0.7	0
54	Assessment of the evaluation of liver T1 mapping imaging applying virtual ECG gating on a modified look-locker inversion recovery (MOLLI) pulse sequence. Journal of the Korean Physical Society, 2014, 65, 1142-1148.	0.7	0

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55	Repeated-Binge Ethanol Intoxication Leads to Lower Choline-Containing Compound Signals in Adult Rats: An In Vivo Marker of Ethanol-Induced Neurochemical Abnormalities. Applied Magnetic Resonance, 2014, 45, 1377-1388.	1.2	0
56	Relevant reduction effect with a modified thermoplastic mask of rotational error for glottic cancer in IMRT. Journal of the Korean Physical Society, 2017, 70, 308-316.	0.7	0
57	SU-E-I-64: High-Resolution Detection of Cerebral Neurochemical Profile in Rat Hippocampus After Acute Binge Alcohol Intoxication. Medical Physics, 2013, 40, 140-140.	3.0	0
58	SU-E-I-47: Simultaneous Acquisition Quality Assurance and Design of Fused MRIMRS Phantom for the Performance Evaluation. Medical Physics, 2014, 41, 140-140.	3.0	0
59	Development of a new advanced animal cradle for small animal multiple imaging modalities: acquisition and evaluation of high-throughput multiple-mouse imaging. Physical and Engineering Sciences in Medicine, 2021, 44, 1367-1376.	2.4	0
60	Search of the optimum beam position and size in radiation treatment. , 0, , .		0