Xiaolei Song

List of Publications by Year
in descending order

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37	1,314	430754	345118
papers	citations	18 h-index	36 g-index

39	39	39	1593
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Deep learningâ€based classification of preclinical breast cancer tumor models using chemical exchange saturation transfer magnetic resonance imaging. NMR in Biomedicine, 2022, 35, e4626.	1.6	12
2	Frequency importance analysis for chemical exchange saturation transfer (CEST) MRI using permuted random forest. NMR in Biomedicine, 2022, , e4744.	1.6	4
3	Xâ€ray luminescence computed tomography using a hybrid proton propagation model and <scp>Lassoâ€LSQR</scp> algorithm. Journal of Biophotonics, 2021, 14, e202100089.	1.1	10
4	A Brief History and Future Prospects of CEST MRI in Clinical Non-Brain Tumor Imaging. International Journal of Molecular Sciences, 2021, 22, 11559.	1.8	9
5	Enhanced CEST MRI Using the Residual of Inversed Z-Spectra for Ischemia Detection. IEEE Access, 2020, 8, 147323-147336.	2.6	2
6	Development of Zincâ€Specific iCEST MRI as an Imaging Biomarker for Prostate Cancer. Angewandte Chemie - International Edition, 2019, 58, 15512-15517.	7.2	22
7	Development of Zincâ€Specific iCEST MRI as an Imaging Biomarker for Prostate Cancer. Angewandte Chemie, 2019, 131, 15658-15663.	1.6	1
8	In Vivo Imaging of Composite Hydrogel Scaffold Degradation Using CEST MRI and Twoâ€Color NIR Imaging. Advanced Functional Materials, 2019, 29, 1903753.	7.8	45
9	CEST MRI with distributionâ€based analysis for assessment of early stage disease activity in a mouse model of multiple sclerosis: An initial study. NMR in Biomedicine, 2019, 32, e4139.	1.6	12
10	Voxel-wise Optimization of Pseudo Voigt Profile (VOPVP) for Z-spectra fitting in chemical exchange saturation transfer (CEST) MRI. Quantitative Imaging in Medicine and Surgery, 2019, 9, 1714-1730.	1.1	12
11	Motion correction of chemical exchange saturation transfer MRI series using robust principal component analysis (RPCA) and PCA. Quantitative Imaging in Medicine and Surgery, 2019, 9, 1697-1713.	1.1	10
12	Furin-mediated intracellular self-assembly of olsalazine nanoparticles for enhanced magnetic resonance imaging and tumour therapy. Nature Materials, 2019, 18, 1376-1383.	13.3	164
13	Half Thresholding Pursuit Algorithm for Fluorescence Molecular Tomography. IEEE Transactions on Biomedical Engineering, 2019, 66, 1468-1476.	2.5	20
14	Salicylic Acidâ€Based Polymeric Contrast Agents for Molecular Magnetic Resonance Imaging of Prostate Cancer. Chemistry - A European Journal, 2018, 24, 7235-7242.	1.7	11
15	Transcranial magnetic stimulation and environmental enrichment enhances cortical excitability and functional outcomes after traumatic brain injury. Brain Stimulation, 2018, 11, 1306-1313.	0.7	35
16	Noninvasive amide proton transfer magnetic resonance imaging in evaluating the grading and cellularity of gliomas. Oncotarget, 2017, 8, 5834-5842.	0.8	42
17	Developing imidazoles as CEST MRI pH sensors. Contrast Media and Molecular Imaging, 2016, 11, 304-312.	0.4	47
18	Salicylic acid analogues as chemical exchange saturation transfer MRI contrast agents for the assessment of brain perfusion territory and bloodâ€“brain barrier opening after intra-arterial infusion. Journal of Cerebral Blood Flow and Metabolism, 2016, 36, 1186-1194.	2.4	24

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19	Imaging the DNA Alkylator Melphalan by CEST MRI: An Advanced Approach to Theranostics. Molecular Pharmaceutics, 2016, 13, 3043-3053.	2.3	20
20	Steady pulsed imaging and labeling scheme for noninvasive perfusion imaging. Magnetic Resonance in Medicine, 2016, 75, 238-248.	1.9	10
21	Screening CEST contrast agents using ultrafast CEST imaging. Journal of Magnetic Resonance, 2016, 265, 224-229.	1.2	21
22	Anthranilic acid analogs as diamagnetic CEST MRI contrast agents that feature an intramolecularâ€bond shifted hydrogen. Contrast Media and Molecular Imaging, 2015, 10, 74-80.	0.4	28
23	Multiâ€echo Length and Offset VARied Saturation (MeLOVARS) method for improved CEST imaging. Magnetic Resonance in Medicine, 2015, 73, 488-496.	1.9	27
24	Label-free imaging of gelatin-containing hydrogel scaffolds. Biomaterials, 2015, 42, 144-150.	5.7	64
25	Liposome-based mucus-penetrating particles (MPP) for mucosal theranostics: Demonstration of diamagnetic chemical exchange saturation transfer (diaCEST) magnetic resonance imaging (MRI). Nanomedicine: Nanotechnology, Biology, and Medicine, 2015, 11, 401-405.	1.7	44
26	Label-free in vivo molecular imaging of underglycosylated mucin-1 expression in tumour cells. Nature Communications, 2015, 6, 6719.	5.8	62
27	Biophysical Characterization of Human Protamine-1 as a Responsive CEST MR Contrast Agent. ACS Macro Letters, 2015, 4, 34-38.	2.3	19
28	High-Performance Fluorescence Molecular Tomography through Shape-Based Reconstruction Using Spherical Harmonics Parameterization. PLoS ONE, 2014, 9, e94317.	1.1	11
29	Nuts and bolts of chemical exchange saturation transfer MRI. NMR in Biomedicine, 2013, 26, 810-828.	1.6	254
30	Salicylic Acid and Analogues as diaCEST MRI Contrast Agents with Highly Shifted Exchangeable Proton Frequencies. Angewandte Chemie - International Edition, 2013, 52, 8116-8119.	7.2	73
31	CEST phase mapping using a length and offset varied saturation (LOVARS) scheme. Magnetic Resonance in Medicine, 2012, 68, 1074-1086.	1.9	51
32	Screening of CEST MR Contrast Agents. Methods in Molecular Biology, 2011, 771, 171-187.	0.4	3
33	An Improved Finite-Element Based Reconstruction Algorithm for Fluorescence Tomography. , 2008, , .		2
34	Reconstruction for free-space fluorescence tomography using a novel hybrid adaptive finite element algorithm. Optics Express, 2007, 15, 18300.	1.7	126
35	A Fast Reconstruction Algorithm for Fluorescence Optical Diffusion Tomography Based on Preiteration. International Journal of Biomedical Imaging, 2007, 2007, 1-6.	3.0	2
36	A Parallel Reconstruction Scheme in Fluorescence Tomography Based on Contrast of Independent Inversed Absorption Properties. International Journal of Biomedical Imaging, 2006, 2006, 1-7.	3.0	5

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37	A Fast Reconstruction Algorithm for Fluorescence Diffusion Optical Tomography. , 2005, 2005, 1476-9.		0