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List of Publications by Year
in descending order

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43 papers	1,033 citations	471061 17 h-index	433756 31 g-index
43 all docs	43 docs citations	43 times ranked	1525 citing authors

#	Article	IF	Citations
1	Elabela/Toddler Is an Endogenous Agonist of the Apelin APJ Receptor in the Adult Cardiovascular System, and Exogenous Administration of the Peptide Compensates for the Downregulation of Its Expression in Pulmonary Arterial Hypertension. Circulation, 2017, 135, 1160-1173.	1.6	183
2	MR fingerprinting with simultaneous B1 estimation. Magnetic Resonance in Medicine, 2016, 76, 1127-1135.	1.9	124
3	Multi-site repeatability and reproducibility of MR fingerprinting of the healthy brain at 1.5 and 3.0â€T. NeuroImage, 2019, 195, 362-372.	2.1	67
4	Monoamine oxidase-dependent endoplasmic reticulum-mitochondria dysfunction and mast cell degranulation lead to adverse cardiac remodeling in diabetes. Cell Death and Differentiation, 2018, 25, 1671-1685.	5.0	54
5	Complex I Deficiency Due to Selective Loss of Ndufs4 in the Mouse Heart Results in Severe Hypertrophic Cardiomyopathy. PLoS ONE, 2014, 9, e94157.	1.1	41
6	Mitochondria selective S â€nitrosation by mitochondriaâ€targeted S â€nitrosothiol protects against postâ€infarct heart failure in mouse hearts. European Journal of Heart Failure, 2014, 16, 712-717.	2.9	39
7	Magnetic resonance fingerprinting with dictionaryâ€based fat and water separation (DBFW MRF): A multiâ€component approach. Magnetic Resonance in Medicine, 2019, 81, 3032-3045.	1.9	39
8	Spiral MR fingerprinting at 7 T with simultaneous B1 estimation. Magnetic Resonance Imaging, 2017, 41, 1-6.	1.0	37
9	Riociguat Reduces Infarct Size and Post-Infarct Heart Failure in Mouse Hearts: Insights from MRI/PET Imaging. PLoS ONE, 2013, 8, e83910.	1.1	36
10	A novel cyclic biased agonist of the apelin receptor, MM07, is disease modifying in the rat monocrotaline model of pulmonary arterial hypertension. British Journal of Pharmacology, 2019, 176, 1206-1221.	2.7	32
11	Direct Evidence of Progressive Cardiac Dysfunction in a Transgenic Mouse Model of Huntington's Disease. Journal of Huntington's Disease, 2012, 1, 57-64.	0.9	31
12	Rapid three-dimensional multiparametric MRI with quantitative transient-state imaging. Scientific Reports, 2020, 10, 13769.	1.6	29
13	Impaired Limbic Cortico-Striatal Structure and Sustained Visual Attention in a Rodent Model of Schizophrenia. International Journal of Neuropsychopharmacology, 2015, 18, pyu010-pyu010.	1.0	28
14	Three dimensional MRF obtains highly repeatable and reproducible multi-parametric estimations in the healthy human brain at 1.5T and 3T. NeuroImage, 2021, 226, 117573.	2.1	26
15	Flexible and efficient optimization of quantitative sequences using automatic differentiation of Bloch simulations. Magnetic Resonance in Medicine, 2019, 82, 1438-1451.	1.9	24
16	Retrospective rigid motion correction of threeâ€dimensional magnetic resonance fingerprinting of the human brain. Magnetic Resonance in Medicine, 2020, 84, 2606-2615.	1.9	23
17	Quantitative imaging metrics derived from magnetic resonance fingerprinting using ISMRM/NIST MRI system phantom: An international multicenter repeatability and reproducibility study. Medical Physics, 2021, 48, 2438-2447.	1.6	20
18	Right Ventricular Dysfunction in the R6/2 Transgenic Mouse Model of Huntington's Disease is Unmasked by Dobutamine. Journal of Huntington's Disease, 2014, 3, 25-32.	0.9	17

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19	Designing contrasts for rapid, simultaneous parameter quantification and flow visualization with quantitative transient-state imaging. Scientific Reports, 2019, 9, 8468.	1.6	15
20	Accelerated 3D whole-brain T1, T2, and proton density mapping: feasibility for clinical glioma MR imaging. Neuroradiology, 2021, 63, 1831-1851.	1.1	15
21	Compressive MRI quantification using convex spatiotemporal priors and deep encoder-decoder networks. Medical Image Analysis, 2021, 69, 101945.	7.0	15
22	Feasibility of Quantitative Magnetic Resonance Fingerprinting in Ovarian Tumors for T₁ and T₂ Mapping in a PET/MR Setting. IEEE Transactions on Radiation and Plasma Medical Sciences, 2019, 3, 509-515.	2.7	13
23	Repeatability and reproducibility of human brain morphometry using threeâ€dimensional magnetic resonance fingerprinting. Human Brain Mapping, 2021, 42, 275-285.	1.9	13
24	A fast protocol for infarct quantification in mice. Journal of Magnetic Resonance Imaging, 2013, 38, 468-473.	1.9	12
25	Magnetic resonance fingerprinting of the pancreas at 1.5ÂT and 3.0ÂT. Scientific Reports, 2020, 10, 17563.	1.6	12
26	Trajectory correction for free-breathing radial cine MRI. Magnetic Resonance Imaging, 2014, 32, 961-964.	1.0	11
27	Functional assessment of the mouse heart by MRI with a 1-min acquisition. NMR in Biomedicine, 2014, 27, 733-737.	1.6	10
28	MRI and PET in Mouse Models of Myocardial Infarction. Journal of Visualized Experiments, 2013, , e50806.	0.2	8
29	Silent T₂[*] and T₂ encoding using ZTE combined with BURST. Magnetic Resonance in Medicine, 2019, 81, 2277-2287.	1.9	8
30	Quadrature birdcage coil with distributed capacitors for 7.0 T magnetic resonance data acquisition of small animals. Concepts in Magnetic Resonance Part B, 2014, 44, 83-88.	0.3	7
31	Learning residual motion correction for fast and robust 3D multiparametric MRI. Medical Image Analysis, 2022, 77, 102387.	7.0	7
32	PET/MRI in the infarcted mouse heart with the Cambridge split magnet. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 702, 47-49.	0.7	6
33	PET/MRI assessment of the infarcted mouse heart. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 734, 152-155.	0.7	6
34	Accuracy and repeatability of QRAPMASTER and MRF-vFA. Magnetic Resonance Imaging, 2021, 83, 196-207.	1.0	6
35	RF coil design for low and high field MRI: Numerical methods and measurements. , 2011, , .		4
36	Simultaneous relaxometry and morphometry of human brain structures with 3D magnetic resonance fingerprinting: a multicenter, multiplatform, multifield-strength study. Cerebral Cortex, 2023, 33, 729-739.	1.6	4

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37	Comparison of first pass bolus AIFs extracted from sequential 18F-FDG PET and DSC-MRI of mice. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 734, 137-140.	0.7	3
38	Combining MRI With PET for Partial Volume Correction Improves Image-Derived Input Functions in Mice. IEEE Transactions on Nuclear Science, 2015, 62, 628-633.	1.2	3
39	An Aristotelian View on MR-Based Attenuation Correction (ARISTOMRAC): Combining the Four Elements. IEEE Transactions on Radiation and Plasma Medical Sciences, 2019, 3, 491-497.	2.7	3
40	Combining MRI with PET for partial volume correction improves image-derived input functions in mice. EJNMMI Physics, 2014, 1, A84.	1.3	1
41	Direct Evaluation of MR-Derived Attenuation Correction Maps for PET/MR of the Mouse Myocardium. IEEE Transactions on Nuclear Science, 2016, 63, 195-202.	1.2	1
42	Fast Quantitative Magnetic Resonance Imaging. Synthesis Lectures on Biomedical Engineering, 2020, 15, i-124.	0.1	0
43	Pattern-Matching Unit for Medical Applications. IEEE Transactions on Nuclear Science, 2021, 68, 2140-2145.	1.2	0