Victor D Schepkin

List of Publications by Year
in descending order

32 papers	895 citations	471477 17 h-index	454934 30 g-index
32 all docs	32 docs citations	32 times ranked	1054 citing authors

#	Article	IF	Citations
1	Protein conformational changes affect the sodium tripleâ€quantum MR signal. NMR in Biomedicine, 2020, 33, e4367.	2.8	5
2	Intracellular Sodium Changes in Cancer Cells Using a Microcavity Array-Based Bioreactor System and Sodium Triple-Quantum MR Signal. Processes, 2020, 8, 1267.	2.8	2
3	Statistical tensor analysis of the MQ MR signals generated by weak quadrupole interactions. Zeitschrift Fur Medizinische Physik, 2019, 29, 326-336.	1.5	7
4	Variability and uncertainty in the rodent controlled cortical impact model of traumatic brain injury. Journal of Neuroscience Methods, 2019, 312, 37-42.	2.5	5
5	Use of MRI, metabolomic, and genomic biomarkers to identify mechanisms of chemoresistance in glioma. , 2019, 2, 862-876.		1
6	Comparison of potassium and sodium binding in vivo and in agarose samples using TQTPPI pulse sequence. Journal of Magnetic Resonance, 2017, 277, 162-168.	2.1	18
7	Tracking protein function with sodium multi quantumÂspectroscopy in a 3D-tissue culture based on microcavity arrays. Scientific Reports, 2017, 7, 3943.	3.3	10
8	³⁹K and²³Na relaxation times and MRI of rat head at 21.1â€‰T. NMR in Biomedicine, 2016, 29, 759-766.	2.8	37
9	Toward 20ÂT magnetic resonance for human brain studies: opportunities for discovery and neuroscience rationale. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2016, 29, 617-639.	2.0	66
10	Polyelectrolyte-Stabilized Nanotemplates Based on Gd(III) Complexes with Macrocyclic Tetra-1,3-diketones as a Positive MR Contrast Agents. ChemistrySelect, 2016, 1, 1377-1383.	1.5	15
11	Sodium MRI of glioma in animal models at ultrahigh magnetic fields. NMR in Biomedicine, 2016, 29, 175-186.	2.8	31
12	A Decade of Experience With the UltraWide-Bore 900-MHz NMR Magnet. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-5.	1.7	5
13	In vivo chlorine and sodium MRI of rat brain at 21.1 T. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2014, 27, 63-70.	2.0	25
14	Sodium 3D COncentration MApping (COMA 3D) using 23Na and proton MRI. Journal of Magnetic Resonance, 2014, 247, 88-95.	2.1	0
15	In vivo magnetic resonance imaging of sodium and diffusion in rat glioma at 21.1 T. Magnetic Resonance in Medicine, 2012, 67, 1159-1166.	3.0	35
16	MRI of adsorbed water in solid foams at 21.1 T. International Journal of Heat and Mass Transfer, 2012, 55, 69-72.	4.8	2
17	Sodium MRI in a rat migraine model and a NEURON simulation study support a role for sodium in migraine. Cephalalgia, 2011, 31, 1254-1265.	3.9	34
18	Initial in vivo rodent sodium and proton MR imaging at 21.1 T. Magnetic Resonance Imaging, 2010, 28, 400-407.	1.8	54

#	Article	IF	Citations
19	Sodium and proton diffusion MRI as biomarkers for early therapeutic response in subcutaneous tumors. Magnetic Resonance Imaging, 2006, 24, 273-278.	1.8	56
20	Proton and sodium MRI assessment of emerging tumor chemotherapeutic resistance. NMR in Biomedicine, 2006, 19, 1035-1042.	2.8	34
21	Sodium magnetic resonance imaging of chemotherapeutic response in a rat glioma. Magnetic Resonance in Medicine, 2005, 53, 85-92.	3.0	64
22	The use of 19F spectroscopy and diffusion-weighted MRI to evaluate differences in gene-dependent enzyme prodrug therapies. Molecular Therapy, 2004, 10, 916-928.	8.2	78
23	A Conjugate of a Tumor-Targeting Ligand and a T Cell Costimulatory Antibody To Treat Brain Tumors. Bioconjugate Chemistry, 2004, 15, 1137-1145.	3.6	6
24	Multi-dose Crystalloid Cardioplegia Preserves Intracellular Sodium Homeostasis in Myocardium. Journal of Molecular and Cellular Cardiology, 1999, 31, 1643-1651.	1.9	13
25	Sodium TQF NMR and intracellular sodium in isolated crystalloid perfused rat heart. Magnetic Resonance in Medicine, 1998, 39, 557-563.	3.0	38
26	Effects of Specific Sodium/Hydrogen Exchange Inhibitor During Cardioplegic Arrest. Annals of Thoracic Surgery, 1997, 64, 94-99.	1.3	25
27	In vivo NMR and MRI using injection delivery of laser-polarized xenon. Proceedings of the National Academy of Sciences of the United States of America, 1997, 94, 14725-14729.	7.1	62
28	Four-Dimensional1H and23Na Imaging Using Continuously Oscillating Gradients. Journal of Magnetic Resonance, 1997, 124, 420-438.	2.1	11
29	Iron coordination by catechol derivative antioxidants. Biochemical Pharmacology, 1996, 51, 1569-1577.	4.4	66
30	2D NMR of the Metabolic Antioxidant Dihydrolipoic Acid and its Derivatives. Free Radical Research, 1996, 25, 195-205.	3.3	6
31	Sodium alterations in isolated rat heart during cardioplegic arrest. Journal of Applied Physiology, 1996, 81, 2696-2702.	2.5	20
32	Measurement of 129Xe T1 in Blood to Explore the Feasibility of Hyperpolarized 129Xe MRI. Journal of Computer Assisted Tomography, 1995, 19, 975-978.	0.9	64