

Konstantin I Momot

List of Publications by Year in descending order

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papers

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citations

516710

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61
all docs

61
docs citations

61
times ranked

1069
citing authors

#	ARTICLE	IF	CITATIONS
1	Sensing mammographic density using single-sided portable Nuclear Magnetic Resonance. Saudi Journal of Biological Sciences, 2022, 29, 2447-2454.	3.8	3
2	Portable NMR for quantification of breast density in vivo: Proof-of-concept measurements and comparison with quantitative MRI. Magnetic Resonance Imaging, 2022, 92, 212-223.	1.8	2
3	Reorientational dynamics of molecules in liquid methane: A molecular dynamics simulation study. Journal of Molecular Liquids, 2021, 324, 114727.	4.9	4
4	RASSF1A Suppression as a Potential Regulator of Mechano-Pathobiology Associated with Mammographic Density in BRCA Mutation Carriers. Cancers, 2021, 13, 3251.	3.7	1
5	Mechanical Pressure Driving Proteoglycan Expression in Mammographic Density: a Self-perpetuating Cycle?. Journal of Mammary Gland Biology and Neoplasia, 2021, 26, 277-296.	2.7	2
6	Heparanase Promotes Syndecan-1 Expression to Mediate Fibrillar Collagen and Mammographic Density in Human Breast Tissue Cultured ex vivo. Frontiers in Cell and Developmental Biology, 2020, 8, 599.	3.7	14
7	Effects of Hydrogen Bonding on the Rotational Dynamics of Water-Like Molecules in Liquids: Insights from Molecular Dynamics Simulations. Australian Journal of Chemistry, 2020, 73, 734.	0.9	3
8	Quantification of breast tissue density: Correlation between single-sided portable NMR and micro-CT measurements. Magnetic Resonance Imaging, 2019, 62, 111-120.	1.8	12
9	Structure and Dynamics of Collagen Hydration Water from Molecular Dynamics Simulations: Implications of Temperature and Pressure. Journal of Physical Chemistry B, 2019, 123, 4901-4914.	2.6	17
10	Transverse relaxation-based assessment of mammographic density and breast tissue composition by single-sided portable NMR. Magnetic Resonance in Medicine, 2019, 82, 1199-1213.	3.0	21
11	Assessment of collagen fiber orientation dispersion in articular cartilage by small-angle X-ray scattering and diffusion tensor imaging: Preliminary results. Magnetic Resonance Imaging, 2018, 48, 115-121.	1.8	6
12	Progression of Post-Traumatic Osteoarthritis in rat meniscectomy models: Comprehensive monitoring using MRI. Scientific Reports, 2018, 8, 6861.	3.3	15
13	T ₁ -based sensing of mammographic density using single-sided portable NMR. Magnetic Resonance in Medicine, 2018, 80, 1243-1251.	3.0	25
14	Looking beyond the mammogram to assess mammographic density: A narrative review. Biomedical Spectroscopy and Imaging, 2018, 7, 63-80.	1.2	4
15	Anisotropic diffusion in stretched hydrogels containing erythrocytes: evidence of cell shape distortion recorded by PGSE NMR spectroscopy. Magnetic Resonance in Chemistry, 2017, 55, 438-446.	1.9	10
16	Na ⁺ and solute diffusion in aqueous channels of Myverol bicontinuous cubic phase: PGSE NMR and computer modelling. Magnetic Resonance in Chemistry, 2017, 55, 464-471.	1.9	10
17	The distribution of the apparent diffusion coefficient as an indicator of the response to chemotherapeutics in ovarian tumour xenografts. Scientific Reports, 2017, 7, 42905.	3.3	16
18	Load-induced changes in the diffusion tensor of ovine anulus fibrosus: A pilot MRI study. Journal of Magnetic Resonance Imaging, 2017, 45, spcone-spcone.	3.4	0

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19	Load-induced changes in the diffusion tensor of ovine anulus fibrosus: A pilot MRI study. <i>Journal of Magnetic Resonance Imaging</i> , 2017, 45, 1723-1735.	3.4	10
20	MRI magic-angle effect in femorotibial cartilages of the red kangaroo. <i>Magnetic Resonance Imaging</i> , 2017, 43, 66-73.	1.8	5
21	Rotational-Diffusion Propagator of the Intramolecular Proton-Proton Vector in Liquid Water: A Molecular Dynamics Study. <i>Journal of Physical Chemistry B</i> , 2017, 121, 10893-10905.	2.6	11
22	Magnetic resonance microimaging of cancer cell spheroid constructs. <i>Biomedical Spectroscopy and Imaging</i> , 2017, 5, 41-54.	1.2	6
23	Molecular Dynamics of a Hydrated Collagen Peptide: Insights into Rotational Motion and Residence Times of Single-Water Bridges in Collagen. <i>Journal of Physical Chemistry B</i> , 2016, 120, 12432-12443.	2.6	20
24	Introduction to Cartilage. <i>New Developments in NMR</i> , 2016, , 1-43.	0.1	5
25	Further development of discrete computational techniques for calculation of restricted diffusion propagators in porous media. <i>Microporous and Mesoporous Materials</i> , 2015, 205, 24-30.	4.4	1
26	Effect of Partial H ₂ O-D ₂ O Replacement on the Anisotropy of Transverse Proton Spin Relaxation in Bovine Articular Cartilage. <i>PLoS ONE</i> , 2014, 9, e115288.	2.5	31
27	Characterization of the Microarchitecture of Direct Writing Melt Electrospun Tissue Engineering Scaffolds Using Diffusion Tensor and Computed Tomography Microimaging. <i>3D Printing and Additive Manufacturing</i> , 2014, 1, 95-103.	2.9	7
28	Simultaneous Magnetic Resonance Imaging and Consolidation Measurement of Articular Cartilage. <i>Sensors</i> , 2014, 14, 7940-7958.	3.8	21
29	A study of the diffusion characteristics of normal, delipidized and relipidized articular cartilage using magnetic resonance imaging. <i>Journal of Materials Science: Materials in Medicine</i> , 2013, 24, 1005-1013.	3.6	1
30	Diffusion tensor of water in partially aligned fibre networks. <i>Journal Physics D: Applied Physics</i> , 2013, 46, 455401.	2.8	20
31	Biomechanics of Synthetic Elastin: Insights from Magnetic Resonance Microimaging. <i>Advanced Materials Research</i> , 2013, 699, 457-463.	0.3	3
32	Diffusion-sensitive magnetic resonance spectroscopy and imaging in biomedical sciences. <i>Biomedical Spectroscopy and Imaging</i> , 2013, 2, 265-287.	1.2	3
33	Anatomical MR imaging of long bones: Comparative performance of MRI at 1.5 T and 3 T. <i>Biomedical Spectroscopy and Imaging</i> , 2013, 2, 21-35.	1.2	3
34	Langevin dynamics modeling of the water diffusion tensor in partially aligned collagen networks. <i>Physical Review E</i> , 2012, 86, 031917.	2.1	13
35	Microstructural magnetic resonance imaging of articular cartilage. <i>Biomedical Spectroscopy and Imaging</i> , 2012, 1, 27-37.	1.2	7
36	Sensitivity of the NMR density matrix to pulse sequence parameters: A simplified analytic approach. <i>Journal of Magnetic Resonance</i> , 2012, 221, 57-68.	2.1	1

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37	Quantification of the accuracy of MRI generated 3D models of long bones compared to CT generated 3D models. <i>Medical Engineering and Physics</i> , 2012, 34, 357-363.	1.7	101
38	Digital Processing of Diffusion-Tensor Images of Avascular Tissues. <i>Biological and Medical Physics Series</i> , 2011, , 341-371.	0.4	5
39	Diffusion tensor of water in model articular cartilage. <i>European Biophysics Journal</i> , 2011, 40, 81-91.	2.2	22
40	Anisotropy of spin relaxation of water protons in cartilage and tendon. <i>NMR in Biomedicine</i> , 2010, 23, 313-324.	2.8	42
41	Magnetic-Resonance Evaluation of the Suitability of Microstructured Polymer Optical Fibers As Sensors for Ionic Aqueous Solutions. <i>ACS Applied Materials & Interfaces</i> , 2009, 1, 197-203.	8.0	3
42	Anisotropy of collagen fibre alignment in bovine cartilage: comparison of polarised light microscopy and spatially resolved diffusion-tensor measurements. <i>Osteoarthritis and Cartilage</i> , 2008, 16, 689-697.	1.3	103
43	Inhomogeneous NMR Line Shape as a Probe of Microscopic Organization of Bicontinuous Cubic Phases. <i>Journal of Physical Chemistry B</i> , 2008, 112, 6636-6645.	2.6	7
44	PFG NMR diffusion experiments for complex systems. <i>Concepts in Magnetic Resonance Part A: Bridging Education and Research</i> , 2006, 28A, 249-269.	0.5	59
45	Convection-compensating diffusion experiments with phase-sensitive double-quantum filtering. <i>Journal of Magnetic Resonance</i> , 2005, 174, 229-236.	2.1	26
46	Acquisition of pure-phase diffusion spectra using oscillating-gradient spin echo. <i>Journal of Magnetic Resonance</i> , 2005, 176, 151-159.	2.1	11
47	Convection-compensating PGSE experiment incorporating excitation-sculpting water suppression (CONVEX). <i>Journal of Magnetic Resonance</i> , 2004, 169, 92-101.	2.1	37
48	Enhancement of Na ⁺ Diffusion in a Bicontinuous Cubic Phase by the Ionophore Monensin. <i>Langmuir</i> , 2004, 20, 2660-2666.	3.5	15
49	Pulsed field gradient nuclear magnetic resonance as a tool for studying drug delivery systems. <i>Concepts in Magnetic Resonance</i> , 2003, 19A, 51-64.	1.3	71
50	NMR Study of the Association of Propofol with Nonionic Surfactants. <i>Langmuir</i> , 2003, 19, 2088-2095.	3.5	76
51	Nuclear magnetic resonance radiation damping in inhomogeneous radio frequency fields: The toroid cavity detector. <i>Journal of Chemical Physics</i> , 2001, 115, 3992-4002.	3.0	3
52	Toroid Cavity Detectors for High-Resolution NMR Spectroscopy and Rotating Frame Imaging: Capabilities and Limitations. <i>Journal of Magnetic Resonance</i> , 2000, 142, 348-357.	2.1	14
53	Rate Constants and Thermodynamic Parameters of Rotation of Axial Ligands in a Bisligated Ferric Tetramesitylporphyrinate Complex Measured from the Temperature Dependence of ¹ H Transverse Relaxation Rates. <i>Journal of Physical Chemistry A</i> , 1998, 102, 10682-10688.	2.5	8
54	Investigations of Rotation of Axial Ligands in Six-Coordinate Low-Spin Iron(III) Tetraphenylporphyrinates: Measurement of Rate Constants from Saturation Transfer Experiments and Comparison to Molecular Mechanics Calculations. <i>Journal of Physical Chemistry A</i> , 1997, 101, 2787-2795.	2.5	29

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55	Proton NMR Relaxation in Six-Coordinate Low-Spin Iron(III) Tetraphenylporphyrinates: Temperature Dependence of Proton Relaxation Rates and Interpretation of NOESY Experiments. <i>Journal of Physical Chemistry A</i> , 1997, 101, 9207-9216.	2.5	14
56	Fourier Transform Ion Cyclotron Resonance Studies of Gas-Phase Reactions between Tungsten Ions and Hydrocarbons. <i>Organometallics</i> , 1994, 13, 2536-2538.	2.3	6
57	CHAPTER 3. Introduction to NMR and MRI. <i>New Developments in NMR</i> , 0, , 62-108.	0.1	1
58	CHAPTER 7. Quantification of Articular Cartilage Microstructure by the Analysis of the Diffusion Tensor. <i>New Developments in NMR</i> , 0, , 191-224.	0.1	0