

Kenneth W Fishbein

List of Publications by Year in descending order

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91
papers

7,506
citations

172207

29
h-index

53109

85
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95
all docs

95
docs citations

95
times ranked

10630
citing authors

#	ARTICLE	IF	CITATIONS
1	Resveratrol improves health and survival of mice on a high-calorie diet. <i>Nature</i> , 2006, 444, 337-342.	13.7	3,882
2	Glycogen synthase kinase-3 β mediates convergence of protection signaling to inhibit the mitochondrial permeability transition pore. <i>Journal of Clinical Investigation</i> , 2004, 113, 1535-1549.	3.9	854
3	A Spectrometer for Dynamic Nuclear Polarization and Electron Paramagnetic Resonance at High Frequencies. <i>Journal of Magnetic Resonance Series A</i> , 1995, 117, 28-40.	1.6	163
4	Multicomponent T ₂ relaxation analysis in cartilage. <i>Magnetic Resonance in Medicine</i> , 2009, 61, 803-809.	1.9	149
5	Adenovirus-Mediated VEGF ₁₂₁ Gene Transfer Stimulates Angiogenesis in Normoperfused Skeletal Muscle and Preserves Tissue Perfusion After Induction of Ischemia. <i>Circulation</i> , 2000, 102, 565-571.	1.6	130
6	Adiposity induces lethal cytokine storm after systemic administration of stimulatory immunotherapy regimens in aged mice. <i>Journal of Experimental Medicine</i> , 2014, 211, 2373-2383.	4.2	124
7	Muscle strength mediates the relationship between mitochondrial energetics and walking performance. <i>Aging Cell</i> , 2017, 16, 461-468.	3.0	99
8	Two-dimensional solid-state proton NMR and proton exchange. <i>Journal of the American Chemical Society</i> , 1993, 115, 6254-6261.	6.6	80
9	³¹ P Magnetic Resonance Spectroscopy Assessment of Muscle Bioenergetics as a Predictor of Gait Speed in the Baltimore Longitudinal Study of Aging. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2016, 71, 1638-1645.	1.7	80
10	Measurement of Spin Lattice Relaxation Times and Concentrations in Systems with Chemical Exchange Using the One-Pulse Sequence: Breakdown of the Ernst Model for Partial Saturation in Nuclear Magnetic Resonance Spectroscopy. <i>Journal of Magnetic Resonance</i> , 2000, 142, 120-135.	1.2	69
11	Matrix fixed-charge density as determined by magnetic resonance microscopy of bioreactor-derived hyaline cartilage correlates with biochemical and biomechanical properties. <i>Arthritis and Rheumatism</i> , 2003, 48, 1047-1056.	6.7	69
12	Fourier transform infrared imaging and MR microscopy studies detect compositional and structural changes in cartilage in a rabbit model of osteoarthritis. <i>Analytical and Bioanalytical Chemistry</i> , 2007, 387, 1601-1612.	1.9	69
13	Magnetic Resonance Imaging of Chondrocytes Labeled with Superparamagnetic Iron Oxide Nanoparticles in Tissue-Engineered Cartilage. <i>Tissue Engineering - Part A</i> , 2009, 15, 3899-3910.	1.6	67
14	Effects of formalin fixation and collagen cross-linking on T2 and magnetization transfer in bovine nasal cartilage. <i>Magnetic Resonance in Medicine</i> , 2007, 57, 1000-1011.	1.9	65
15	Cytochrome b5 reductase and the control of lipid metabolism and healthspan. <i>Npj Aging and Mechanisms of Disease</i> , 2016, 2, 16006.	4.5	57
16	Cartilage formation in a hollow fiber bioreactor studied by proton magnetic resonance microscopy. <i>Matrix Biology</i> , 1998, 17, 513-523.	1.5	53
17	Insulin Resistance Is Associated With Reduced Mitochondrial Oxidative Capacity Measured by ³¹ P-Magnetic Resonance Spectroscopy in Participants Without Diabetes From the Baltimore Longitudinal Study of Aging. <i>Diabetes</i> , 2017, 66, 170-176.	0.3	48
18	A cross-sectional study of functional and metabolic changes during aging through the lifespan in male mice. <i>ELife</i> , 2021, 10, .	2.8	47

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19	Disulfiram Treatment Normalizes Body Weight in Obese Mice. <i>Cell Metabolism</i> , 2020, 32, 203-214.e4.	7.2	46
20	Combination therapy with lenalidomide and nanoceria ameliorates CNS autoimmunity. <i>Experimental Neurology</i> , 2015, 273, 151-160.	2.0	43
21	An analysis of the integration between articular cartilage and nondegradable hydrogel using magnetic resonance imaging. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2006, 77B, 144-148.	1.6	40
22	Analysis of mcDESPOT and CPMG derived parameter estimates for two component nonexchanging systems. <i>Magnetic Resonance in Medicine</i> , 2016, 75, 2406-2420.	1.9	40
23	Pulsed dynamic nuclear polarization at 5 T. <i>Chemical Physics Letters</i> , 1992, 189, 54-59.	1.2	37
24	Automated quantification of muscle and fat in the thigh from water, fat, and nonsuppressed MR images. <i>Journal of Magnetic Resonance Imaging</i> , 2012, 35, 1152-1161.	1.9	37
25	Incorporation of rician noise in the analysis of biexponential transverse relaxation in cartilage using a multiple gradient echo sequence at 3 and 7 tesla. <i>Magnetic Resonance in Medicine</i> , 2015, 73, 352-366.	1.9	37
26	Chemogenetic stimulation of the hypoglossal neurons improves upper airway patency. <i>Scientific Reports</i> , 2017, 7, 44392.	1.6	35
27	Low plasma lysophosphatidylcholines are associated with impaired mitochondrial oxidative capacity in adults in the Baltimore Longitudinal Study of Aging. <i>Aging Cell</i> , 2019, 18, e12915.	3.0	34
28	Analysis of Mitochondrial 3D-Deformation in Cardiomyocytes during Active Contraction Reveals Passive Structural Anisotropy of Orthogonal Short Axes. <i>PLoS ONE</i> , 2011, 6, e21985.	1.1	34
29	Stabilization of the inverse Laplace transform of multiexponential decay through introduction of a second dimension. <i>Journal of Magnetic Resonance</i> , 2013, 236, 134-139.	1.2	33
30	Overexpression of <i>CYB5R3</i> and <i>NQO1</i> , two <i>NAD</i> -producing enzymes, mimics aspects of caloric restriction. <i>Aging Cell</i> , 2018, 17, e12767.	3.0	32
31	Muscle mitochondrial energetics predicts mobility decline in well-functioning older adults: The baltimore longitudinal study of aging. <i>Aging Cell</i> , 2022, 21, e13552.	3.0	32
32	Multivariate analysis of cartilage degradation using the support vector machine algorithm. <i>Magnetic Resonance in Medicine</i> , 2012, 67, 1815-1826.	1.9	31
33	The Role of Muscle Perfusion in the Age-Associated Decline of Mitochondrial Function in Healthy Individuals. <i>Frontiers in Physiology</i> , 2019, 10, 427.	1.3	31
34	A central nervous system specific mouse model for thanatophoric dysplasia type II. <i>Human Molecular Genetics</i> , 2003, 12, 2863-2871.	1.4	30
35	Cryopreservation of porcine articular cartilage: MRI and biochemical results after different freezing protocols. <i>Cryobiology</i> , 2007, 54, 36-43.	0.3	28
36	Moderate to Vigorous Physical Activity Is Associated With Higher Muscle Oxidative Capacity in Older Adults. <i>Journal of the American Geriatrics Society</i> , 2019, 67, 1695-1699.	1.3	27

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37	The lever-coil: a simple, inexpensive sensor for respiratory and cardiac motion in MRI experiments. <i>Magnetic Resonance Imaging</i> , 2001, 19, 881-889.	1.0	26
38	Optimal methods for the preservation of cartilage samples in MRI and correlative biochemical studies. <i>Magnetic Resonance in Medicine</i> , 2007, 57, 866-873.	1.9	25
39	Noninvasive Assessment of Glycosaminoglycan Production in Injectable Tissue-Engineered Cartilage Constructs Using Magnetic Resonance Imaging. <i>Tissue Engineering - Part C: Methods</i> , 2008, 14, 243-249.	1.1	25
40	XRCC1 haploinsufficiency in mice has little effect on aging, but adversely modifies exposure-dependent susceptibility. <i>Nucleic Acids Research</i> , 2011, 39, 7992-8004.	6.5	25
41	Designer Receptors Exclusively Activated by Designer Drugs Approach to Treatment of Sleep-disordered Breathing. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2021, 203, 102-110.	2.5	25
42	ATP Synthase K ⁺ - and H ⁺ -Fluxes Drive ATP Synthesis and Enable Mitochondrial K ⁺ -uniporter Function: I. Characterization of Ion Fluxes. <i>Function</i> , 2022, 3, zqab065.	1.1	25
43	Metabolic abnormalities and hypoleptinemia in Δ -synuclein A53T mutant mice. <i>Neurobiology of Aging</i> , 2014, 35, 1153-1161.	1.5	23
44	Lower Mitochondrial Energy Production of the Thigh Muscles in Patients With Low Normal Ankle-Brachial Index. <i>Journal of the American Heart Association</i> , 2017, 6, .	1.6	23
45	Poor mitochondrial health and systemic inflammation? Test of a classic hypothesis in the Baltimore Longitudinal Study of Aging. <i>GeroScience</i> , 2020, 42, 1175-1182.	2.1	23
46	Ex vivo magnetic resonance microscopy of an osteochondral transfer. <i>Journal of Magnetic Resonance Imaging</i> , 2003, 17, 603-608.	1.9	22
47	Aortic Fibrosis, Induced by High Salt Intake in the Absence of Hypertensive Response, Is Reduced by a Monoclonal Antibody to Marinobufagenin. <i>American Journal of Hypertension</i> , 2016, 29, 641-646.	1.0	22
48	Topoisomerase 3 β knockout mice show transcriptional and behavioural impairments associated with neurogenesis and synaptic plasticity. <i>Nature Communications</i> , 2020, 11, 3143.	5.8	22
49	Assessment of tissue repair in full thickness chondral defects in the rabbit using magnetic resonance imaging transverse relaxation measurements. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2008, 86B, 375-380.	1.6	21
50	ATP synthase K ⁺ - and H ⁺ -fluxes drive ATP synthesis and enable mitochondrial K ⁺ -uniporter function: II. Ion and ATP synthase flux regulation. <i>Function</i> , 2022, 3, zqac001.	1.1	20
51	Bioreactor and probe system for magnetic resonance microimaging and spectroscopy of chondrocytes and neocartilage. <i>International Journal of Imaging Systems and Technology</i> , 1997, 8, 285-292.	2.7	19
52	31P NMR spectroscopy of developing cartilage produced from chick chondrocytes in a hollow-fiber bioreactor. <i>Magnetic Resonance in Medicine</i> , 2000, 44, 367-372.	1.9	18
53	Characterization of Ex Vivo Generated Bovine and Human Cartilage by Immunohistochemical, Biochemical, and Magnetic Resonance Imaging Analyses. <i>Tissue Engineering - Part A</i> , 2010, 16, 2183-2196.	1.6	18
54	Activatable interpolymer complex-superparamagnetic iron oxide nanoparticles as magnetic resonance contrast agents sensitive to oxidative stress. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 158, 578-588.	2.5	18

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55	Greater Skeletal Muscle Oxidative Capacity Is Associated With Higher Resting Metabolic Rate: Results From the Baltimore Longitudinal Study of Aging. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2020, 75, 2262-2268.	1.7	18
56	Diffusion-weighted MRI with intravoxel incoherent motion modeling for assessment of muscle perfusion in the thigh during post-exercise hyperemia in younger and older adults. <i>NMR in Biomedicine</i> , 2019, 32, e4072.	1.6	17
57	Characterization of Engineered Cartilage Constructs Using Multiexponential T ₂ Relaxation Analysis and Support Vector Regression. <i>Tissue Engineering - Part C: Methods</i> , 2012, 18, 433-443.	1.1	15
58	The effect of noise and lipid signals on determination of Gaussian and non-Gaussian diffusion parameters in skeletal muscle. <i>NMR in Biomedicine</i> , 2017, 30, e3718.	1.6	15
59	Compatibility of Gd-DTPA perfusion and histologic studies of the brain. <i>Magnetic Resonance Imaging</i> , 2006, 24, 27-31.	1.0	14
60	Age and Muscle Function Are More Closely Associated With Intracellular Magnesium, as Assessed by ³¹ P Magnetic Resonance Spectroscopy, Than With Serum Magnesium. <i>Frontiers in Physiology</i> , 2019, 10, 1454.	1.3	14
61	Rotational resonance with multiple-pulse scaling in solid-state nuclear magnetic resonance. <i>Journal of Chemical Physics</i> , 1994, 100, 5533-5545.	1.2	13
62	Classification of histologically scored human knee osteochondral plugs by quantitative analysis of magnetic resonance images at 3T. <i>Journal of Orthopaedic Research</i> , 2015, 33, 640-650.	1.2	13
63	Proteomic signatures of in vivo muscle oxidative capacity in healthy adults. <i>Aging Cell</i> , 2020, 19, e13124.	3.0	13
64	Pitfalls in the Measurement of Metabolite Concentrations Using the One-Pulse Experiment in in Vivo NMR: Commentary on "On Neglecting Chemical Exchange Effects When Correcting in Vivo ³¹ P MRS Data for Partial Saturation". <i>Journal of Magnetic Resonance</i> , 2001, 149, 251-257.	1.2	12
65	A Novel Extension to Fuzzy Connectivity for Body Composition Analysis: Applications in Thigh, Brain, and Whole Body Tissue Segmentation. <i>IEEE Transactions on Biomedical Engineering</i> , 2019, 66, 1069-1081.	2.5	12
66	Characterization of skin abnormalities in a mouse model of osteogenesis imperfecta using high resolution magnetic resonance imaging and Fourier transform infrared imaging spectroscopy. <i>NMR in Biomedicine</i> , 2012, 25, 169-176.	1.6	11
67	Differences in the Bioenergetic Response of the Isolated Perfused Rat Heart to Selective β_1 - and β_2 -Adrenergic Receptor Stimulation. <i>Circulation</i> , 2003, 107, 2146-2152.	1.6	10
68	Cardiovascular Health and Mitochondrial Function: Testing an Association. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2021, 76, 361-367.	1.7	10
69	Sensitivity and specificity of univariate MRI analysis of experimentally degraded cartilage under clinical imaging conditions. <i>Journal of Magnetic Resonance Imaging</i> , 2015, 42, 136-144.	1.9	8
70	Mitochondrial DNA copy number and heteroplasmy load correlate with skeletal muscle oxidative capacity by ³¹ P MR spectroscopy. <i>Aging Cell</i> , 2021, 20, e13487.	3.0	8
71	Compatibility of superparamagnetic iron oxide nanoparticle labeling for ¹ H MRI cell tracking with ³¹ P MRS for bioenergetic measurements. <i>NMR in Biomedicine</i> , 2010, 23, 1166-1172.	1.6	7
72	Screening of ligands for redox-active europium using magnetic resonance imaging. <i>Bioorganic and Medicinal Chemistry</i> , 2018, 26, 5274-5279.	1.4	7

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73	Image-based Tissue Distribution Modeling for Skeletal Muscle Quality Characterization. IEEE Transactions on Biomedical Engineering, 2015, 63, 1-1.	2.5	6
74	Stabilization of parameter estimates from multiexponential decay through extension into higher dimensions. Scientific Reports, 2022, 12, 5773.	1.6	5
75	Multiparametric Classification of Skin from Osteogenesis Imperfecta Patients and Controls by Quantitative Magnetic Resonance Microimaging. PLoS ONE, 2016, 11, e0157891.	1.1	4
76	Measurement of fat fraction in the human thymus by localized NMR and three-point Dixon MRI techniques. Magnetic Resonance Imaging, 2018, 50, 110-118.	1.0	4
77	Tendon and neurovascular bundle displacement in the palm with hand flexion and extension: An MRI and gross anatomy correlative study. Journal of Magnetic Resonance Imaging, 2006, 23, 742-746.	1.9	3
78	Effects of knee injection on skeletal muscle metabolism and contractile force in rats. Osteoarthritis and Cartilage, 2007, 15, 550-558.	0.6	3
79	Stabilization of T ₂ relaxation and magnetization transfer in cartilage explants by immersion in perfluorocarbon liquid. Magnetic Resonance in Medicine, 2019, 81, 3209-3217.	1.9	3
80	Contribution of Intramyocellular Lipids to Decreased Computed Tomography Muscle Density With Age. Frontiers in Physiology, 2021, 12, 632642.	1.3	3
81	Cardiac phenotype induced by a dysfunctional β -adrenergic transgene. Channels, 2011, 5, 138-147.	1.5	2
82	Ankle-Brachial Index and Energy Production in People Without Peripheral Artery Disease: The BLSA. Journal of the American Heart Association, 2022, 11, e019014.	1.6	2
83	Association of central arterial stiffness with hippocampal blood flow and N-acetyl aspartate concentration in hypertensive adult Dahl salt sensitive rats. Journal of Hypertension, 2021, 39, 2113-2121.	0.3	1
84	Adiposity As a Principal Component of Lethal Cytokine Storm Following Cancer Immunotherapy in Aged Mice. Blood, 2014, 124, 460-460.	0.6	1
85	Automated Quantification of Muscle and Fat in the Thigh from Water-, Fat- and Non-suppressed MR Images. , 2010, , .		0
86	Between a Rock and a Hard Place: Mitochondria Deform Anisotropically in Intact Cardiomyocytes During Active Contraction. Biophysical Journal, 2011, 100, 288a.	0.2	0
87	Towards segmentation of the thymus in fat and water parametric MR images. , 2011, 2011, 8078-81.		0
88	Development of cardiomyopathy in response to chronic β -adrenergic stimulation of transgenic mouse overexpressing the exon 22 isoform of the human Ca _v 1.2 channel β 1C subunit as revealed by magnetic resonance imaging. FASEB Journal, 2007, 21, A583.	0.2	0
89	Effects of Lisinopril on Arterial Stiffness, Cerebral Blood Flow and Cortical Thickness in Hypertensive Dahl S Rats. FASEB Journal, 2020, 34, 1-1.	0.2	0
90	Effects of Lisinopril on Arterial Stiffness, Cerebral Blood Flow, Neuronal Viability and Cortical Thickness in Late-Life Hypertension in Dahl S Rats. FASEB Journal, 2020, 34, 1-1.	0.2	0

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91	Targeted Retrograde Chemogenetic Approach to Treat Sleep Apnea. FASEB Journal, 2020, 34, 1-1.	0.2	0