

Kenneth W Fishbein

List of Publications by Year in descending order

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92
papers

7,506
citations

159585

30
h-index

53230

85
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docs citations

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times ranked

10630
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	2.3	20
2	Muscle mitochondrial energetics predicts mobility decline in well-functioning older adults: The Baltimore longitudinal study of aging. <i>Aging Cell</i> , 2022, 21, e13552.	6.7	32
3	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.	2.3	25
4	Ankle-Brachial Index and Energy Production in People Without Peripheral Artery Disease: The BLSA. <i>Journal of the American Heart Association</i> , 2022, 11, e019014.	3.7	2
5	Stabilization of parameter estimates from multiexponential decay through extension into higher dimensions. <i>Scientific Reports</i> , 2022, 12, 5773.	3.3	5
6	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.	5.6	25
7	Cardiovascular Health and Mitochondrial Function: Testing an Association. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2021, 76, 361-367.	3.6	10
8	A cross-sectional study of functional and metabolic changes during aging through the lifespan in male mice. <i>ELife</i> , 2021, 10, .	6.0	47
9	Association of central arterial stiffness with hippocampal blood flow and N-acetyl aspartate concentration in hypertensive adult Dahl salt sensitive rats. <i>Journal of Hypertension</i> , 2021, 39, 2113-2121.	0.5	1
10	Contribution of Intramyocellular Lipids to Decreased Computed Tomography Muscle Density With Age. <i>Frontiers in Physiology</i> , 2021, 12, 632642.	2.8	3
11	Mitochondrial DNA copy number and heteroplasmy load correlate with skeletal muscle oxidative capacity by P31 MR spectroscopy. <i>Aging Cell</i> , 2021, 20, e13487.	6.7	8
12	Disulfiram Treatment Normalizes Body Weight in Obese Mice. <i>Cell Metabolism</i> , 2020, 32, 203-214.e4.	16.2	46
13	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.	4.6	23
14	Topoisomerase 3 ^β knockout mice show transcriptional and behavioural impairments associated with neurogenesis and synaptic plasticity. <i>Nature Communications</i> , 2020, 11, 3143.	12.8	22
15	Proteomic signatures of in vivo muscle oxidative capacity in healthy adults. <i>Aging Cell</i> , 2020, 19, e13124.	6.7	13
16	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.	3.6	18
17	Effects of Lisinopril on Arterial Stiffness, Cerebral Blood Flow and Cortical Thickness in Hypertensive Dahl Rats. <i>FASEB Journal</i> , 2020, 34, 1-1.	0.5	0
18	Effects of Lisinopril on Arterial Stiffness, Cerebral Blood Flow, Neuronal Viability and Cortical Thickness in Late-Life Hypertension in Dahl Rats. <i>FASEB Journal</i> , 2020, 34, 1-1.	0.5	0

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19	Targeted Retrograde Chemogenetic Approach to Treat Sleep Apnea. <i>FASEB Journal</i> , 2020, 34, 1-1.	0.5	0
20	Stabilization of T ₂ relaxation and magnetization transfer in cartilage explants by immersion in perfluorocarbon liquid. <i>Magnetic Resonance in Medicine</i> , 2019, 81, 3209-3217.	3.0	3
21	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.	6.7	34
22	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.	2.6	27
23	The Role of Muscle Perfusion in the Age-Associated Decline of Mitochondrial Function in Healthy Individuals. <i>Frontiers in Physiology</i> , 2019, 10, 427.	2.8	31
24	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.	2.8	17
25	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.	2.8	14
26	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.	4.2	12
27	Screening of ligands for redox-active europium using magnetic resonance imaging. <i>Bioorganic and Medicinal Chemistry</i> , 2018, 26, 5274-5279.	3.0	7
28	Measurement of fat fraction in the human thymus by localized NMR and three-point Dixon MRI techniques. <i>Magnetic Resonance Imaging</i> , 2018, 50, 110-118.	1.8	4
29	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.	6.7	32
30	Muscle strength mediates the relationship between mitochondrial energetics and walking performance. <i>Aging Cell</i> , 2017, 16, 461-468.	6.7	99
31	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.	2.8	15
32	Chemogenetic stimulation of the hypoglossal neurons improves upper airway patency. <i>Scientific Reports</i> , 2017, 7, 44392.	3.3	35
33	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, .	3.7	23
34	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.	5.0	18
35	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.	0.6	48
36	Multiparametric Classification of Skin from Osteogenesis Imperfecta Patients and Controls by Quantitative Magnetic Resonance Microimaging. <i>PLoS ONE</i> , 2016, 11, e0157891.	2.5	4

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37	Analysis of mcDESPOT and CPMG derived parameter estimates for two-component nonexchanging systems. <i>Magnetic Resonance in Medicine</i> , 2016, 75, 2406-2420.	3.0	40
38	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
39	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.	3.6	80
40	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.	2.0	22
41	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.	3.4	8
42	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.	3.0	37
43	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.	2.3	13
44	Combination therapy with lenalidomide and nanoceria ameliorates CNS autoimmunity. <i>Experimental Neurology</i> , 2015, 273, 151-160.	4.1	43
45	Image-based Tissue Distribution Modeling for Skeletal Muscle Quality Characterization. <i>IEEE Transactions on Biomedical Engineering</i> , 2015, 63, 1-1.	4.2	6
46	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.	8.5	124
47	Metabolic abnormalities and hypoleptinemia in α -synuclein A53T mutant mice. <i>Neurobiology of Aging</i> , 2014, 35, 1153-1161.	3.1	23
48	Adiposity As a Principal Component of Lethal Cytokine Storm Following Cancer Immunotherapy in Aged Mice. <i>Blood</i> , 2014, 124, 460-460.	1.4	1
49	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.	2.1	33
50	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.	2.1	15
51	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.	3.4	37
52	Multivariate analysis of cartilage degradation using the support vector machine algorithm. <i>Magnetic Resonance in Medicine</i> , 2012, 67, 1815-1826.	3.0	31
53	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.	2.8	11
54	Between a Rock and a Hard Place: Mitochondria Deform Anisotropically in Intact Cardiomyocytes During Active Contraction. <i>Biophysical Journal</i> , 2011, 100, 288a.	0.5	0

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55	Towards segmentation of the thymus in fat and water parametric MR images. , 2011, 2011, 8078-81.		0
56	XRCC1 haploinsufficiency in mice has little effect on aging, but adversely modifies exposure-dependent susceptibility. Nucleic Acids Research, 2011, 39, 7992-8004.	14.5	25
57	Cardiac phenotype induced by a dysfunctional $\text{I}\kappa\text{B}\alpha$ transgene. Channels, 2011, 5, 138-147.	2.8	2
58	Analysis of Mitochondrial 3D-Deformation in Cardiomyocytes during Active Contraction Reveals Passive Structural Anisotropy of Orthogonal Short Axes. PLoS ONE, 2011, 6, e21985.	2.5	34
59	Compatibility of superparamagnetic iron oxide nanoparticle labeling for ^1H MRI cell tracking with ^31P MRS for bioenergetic measurements. NMR in Biomedicine, 2010, 23, 1166-1172.	2.8	7
60	Characterization of <i>Ex Vivo</i> Generated Bovine and Human Cartilage by Immunohistochemical, Biochemical, and Magnetic Resonance Imaging Analyses. Tissue Engineering - Part A, 2010, 16, 2183-2196.	3.1	18
61	Automated Quantification of Muscle and Fat in the Thigh from Water-, Fat- and Non-suppressed MR Images. , 2010, , .		0
62	Magnetic Resonance Imaging of Chondrocytes Labeled with Superparamagnetic Iron Oxide Nanoparticles in Tissue-Engineered Cartilage. Tissue Engineering - Part A, 2009, 15, 3899-3910.	3.1	67
63	Multicomponent T_2 relaxation analysis in cartilage. Magnetic Resonance in Medicine, 2009, 61, 803-809.	3.0	149
64	Assessment of tissue repair in full thickness chondral defects in the rabbit using magnetic resonance imaging transverse relaxation measurements. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2008, 86B, 375-380.	3.4	21
65	Noninvasive Assessment of Glycosaminoglycan Production in Injectable Tissue-Engineered Cartilage Constructs Using Magnetic Resonance Imaging. Tissue Engineering - Part C: Methods, 2008, 14, 243-249.	2.1	25
66	Cryopreservation of porcine articular cartilage: MRI and biochemical results after different freezing protocols. Cryobiology, 2007, 54, 36-43.	0.7	28
67	Optimal methods for the preservation of cartilage samples in MRI and correlative biochemical studies. Magnetic Resonance in Medicine, 2007, 57, 866-873.	3.0	25
68	Effects of formalin fixation and collagen cross-linking on T_2 and magnetization transfer in bovine nasal cartilage. Magnetic Resonance in Medicine, 2007, 57, 1000-1011.	3.0	65
69	Effects of knee injection on skeletal muscle metabolism and contractile force in rats. Osteoarthritis and Cartilage, 2007, 15, 550-558.	1.3	3
70	Fourier transform infrared imaging and MR microscopy studies detect compositional and structural changes in cartilage in a rabbit model of osteoarthritis. Analytical and Bioanalytical Chemistry, 2007, 387, 1601-1612.	3.7	69
71	Development of cardiomyopathy in response to chronic β -adrenergic stimulation of transgenic mouse overexpressing the exon 22 isoform of the human $\text{Ca}_v1.2$ channel $\text{I}\kappa\text{B}\alpha$ subunit as revealed by magnetic resonance imaging. FASEB Journal, 2007, 21, A583.	0.5	0
72	Resveratrol improves health and survival of mice on a high-calorie diet. Nature, 2006, 444, 337-342.	27.8	3,882

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73	Compatibility of Gd-DTPA perfusion and histologic studies of the brain. <i>Magnetic Resonance Imaging</i> , 2006, 24, 27-31.	1.8	14
74	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.	3.4	40
75	Tendon and neurovascular bundle displacement in the palm with hand flexion and extension: An MRI and gross anatomy correlative study. <i>Journal of Magnetic Resonance Imaging</i> , 2006, 23, 742-746.	3.4	3
76	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.	8.2	854
77	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.	8.2	118
78	Ex vivo magnetic resonance microscopy of an osteochondral transfer. <i>Journal of Magnetic Resonance Imaging</i> , 2003, 17, 603-608.	3.4	22
79	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
80	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
81	A central nervous system specific mouse model for thanatophoric dysplasia type II. <i>Human Molecular Genetics</i> , 2003, 12, 2863-2871.	2.9	30
82	The lever-coil: a simple, inexpensive sensor for respiratory and cardiac motion in MRI experiments. <i>Magnetic Resonance Imaging</i> , 2001, 19, 881-889.	1.8	26
83	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 31P MRS Data for Partial Saturation". <i>Journal of Magnetic Resonance</i> , 2001, 149, 251-257.	2.1	12
84	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.	2.1	69
85	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.	3.0	18
86	Adenovirus-Mediated VEGF β 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
87	Cartilage formation in a hollow fiber bioreactor studied by proton magnetic resonance microscopy. <i>Matrix Biology</i> , 1998, 17, 513-523.	3.6	53
88	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.	4.1	19
89	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
90	Rotational resonance with multiple pulse scaling in solid state nuclear magnetic resonance. <i>Journal of Chemical Physics</i> , 1994, 100, 5533-5545.	3.0	13

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91	Two-dimensional solid-state proton NMR and proton exchange. Journal of the American Chemical Society, 1993, 115, 6254-6261.	13.7	80
92	Pulsed dynamic nuclear polarization at 5 T. Chemical Physics Letters, 1992, 189, 54-59.	2.6	37