

Samuel Patz

List of Publications by Year in descending order

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84
papers

6,002
citations

136740

32
h-index

76769

74
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87
all docs

87
docs citations

87
times ranked

6581
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetic resonance elastography to study the effect of amyloid plaque accumulation in a mouse model. <i>Journal of Neuroimaging</i> , 2022, , .	1.0	2
2	MRI in the Assessment of Cardiopulmonary Interaction. , 2021, , 619-631.		1
3	REVIEW: MR elastography of brain tumors. <i>NeuroImage: Clinical</i> , 2020, 25, 102109.	1.4	65
4	Magnetic Resonance Elastography reveals effects of anti-angiogenic glioblastoma treatment on tumor stiffness and captures progression in an orthotopic mouse model. <i>Cancer Imaging</i> , 2020, 20, 35.	1.2	11
5	Imaging localized neuronal activity at fast time scales through biomechanics. <i>Science Advances</i> , 2019, 5, eaav3816.	4.7	32
6	Characterization of glioblastoma in an orthotopic mouse model with magnetic resonance elastography. <i>NMR in Biomedicine</i> , 2018, 31, e3840.	1.6	25
7	Cover image, Volume 31 Issue 10. <i>NMR in Biomedicine</i> , 2018, 31, e3825.	1.6	0
8	Relationship between Cough-Associated Changes in CSF Flow and Disease Severity in Chiari I Malformation: An Exploratory Study Using Real-Time MRI. <i>American Journal of Neuroradiology</i> , 2018, 39, 1267-1272.	1.2	11
9	Hyperpolarized ¹²⁹ Xenon MRI of the Lung. <i>Medical Radiology</i> , 2017, , 99-124.	0.0	0
10	Cough-Associated Changes in CSF Flow in Chiari I Malformation Evaluated by Real-Time MRI. <i>American Journal of Neuroradiology</i> , 2016, 37, 825-830.	1.2	17
11	Novel MR Imaging Applications for Pleural evaluation. <i>Magnetic Resonance Imaging Clinics of North America</i> , 2015, 23, 179-195.	0.6	15
12	Chapter 19. Xenon Septal Uptake. <i>New Developments in NMR</i> , 2015, , 336-364.	0.1	0
13	XeNA: An automated "open-source"™ ¹²⁹ Xe hyperpolarizer for clinical use. <i>Magnetic Resonance Imaging</i> , 2014, 32, 541-550.	1.0	57
14	A portable single-sided magnet system for remote NMR measurements of pulmonary function. <i>NMR in Biomedicine</i> , 2014, 27, 1479-1489.	1.6	14
15	Physiology-Based MR Imaging Assessment of CSF Flow at the Foramen Magnum with a Valsalva Maneuver. <i>American Journal of Neuroradiology</i> , 2013, 34, 1857-1862.	1.2	27
16	Single-breath xenon polarization transfer contrast (SB-PTC): Implementation and initial results in healthy humans. <i>Journal of Magnetic Resonance Imaging</i> , 2013, 37, 457-470.	1.9	31
17	Near-unity nuclear polarization with an open-source ¹²⁹ Xe hyperpolarizer for NMR and MRI. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 14150-14155.	3.3	193
18	The Kety-Schmidt Technique for Quantitative Perfusion and Oxygen Metabolism Measurements in the MR Imaging Environment. <i>American Journal of Neuroradiology</i> , 2013, 34, E100-E102.	1.2	2

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19	Quantification of Age-Related and per Diopter Accommodative Changes of the Lens and Ciliary Muscle in the Emmetropic Human Eye. , 2013, 54, 1095.		88
20	Evidence of Adult Lung Growth in Humans. New England Journal of Medicine, 2012, 367, 1566-1567.	13.9	5
21	Evidence for Adult Lung Growth in Humans. New England Journal of Medicine, 2012, 367, 244-247.	13.9	237
22	The relationship between plasma amyloid- β peptides and the medial temporal lobe in the homebound elderly. International Journal of Geriatric Psychiatry, 2011, 26, 593-601.	1.3	11
23	Diffusion of hyperpolarized ^{129}Xe in the lung: a simplified model of ^{129}Xe septal uptake and experimental results. New Journal of Physics, 2011, 13, 015009.	1.2	78
24	Cough-Associated Headache in Patients with Chiari I Malformation: CSF Flow Analysis by Means of Cine Phase-Contrast MR Imaging. American Journal of Neuroradiology, 2011, 32, 739-742.	1.2	29
25	Inhalation heterogeneity from subresidual volumes in elite divers. Journal of Applied Physiology, 2010, 109, 1969-1973.	1.2	12
26	25-Hydroxyvitamin D, dementia, and cerebrovascular pathology in elders receiving home services. Neurology, 2010, 74, 18-26.	1.5	273
27	Quantitative Assessment of Bronchial Wall Attenuation With Thin-Section CT: An Indicator of Airflow Limitation in Chronic Obstructive Pulmonary Disease. American Journal of Roentgenology, 2010, 195, 363-369.	1.0	40
28	Quantitative CT Measurement of Cross-sectional Area of Small Pulmonary Vessel in COPD. Academic Radiology, 2010, 17, 93-99.	1.3	123
29	Exploring collagen self-assembly by NMR. Physical Chemistry Chemical Physics, 2010, 12, 14169.	1.3	4
30	Toward ^{13}C hyperpolarized biomarkers produced by thermal mixing with hyperpolarized ^{129}Xe . Journal of Chemical Physics, 2009, 131, 044508.	1.2	10
31	Diffusion Tensor Imaging, White Matter Lesions, the Corpus Callosum, and Gait in the Elderly. Stroke, 2009, 40, 3816-3820.	1.0	95
32	Science to Practice: How Do We Interpret the Transfer of Hyperpolarized ^{129}Xe from Blood into Alveolar Gas?. Radiology, 2009, 252, 319-321.	3.6	2
33	Lung Motion and Volume Measurement by Dynamic 3D MRI Using a 128-Channel Receiver Coil. Academic Radiology, 2009, 16, 22-27.	1.3	34
34	Hyperpolarized Gas MR Imaging of the Lung: Current Status as a Research Tool. Journal of Thoracic Imaging, 2009, 24, 181-188.	0.8	32
35	MRI of Pulmonary Ventilation. Medical Radiology, 2009, , 35-90.	0.0	0
36	Human Pulmonary Imaging and Spectroscopy with Hyperpolarized ^{129}Xe at 0.2T. Academic Radiology, 2008, 15, 713-727.	1.3	121

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37	Functional MR Imaging of the Lung. Magnetic Resonance Imaging Clinics of North America, 2008, 16, 275-289.	0.6	23
38	Large Production System for Hyperpolarized ^{129}Xe for Human Lung Imaging Studies. Academic Radiology, 2008, 15, 683-692.	1.3	137
39	Posture-dependent Human ^3He Lung Imaging in an Open-access MRI System. Academic Radiology, 2008, 15, 728-739.	1.3	17
40	Hyperpolarized ^{129}Xe MRI: A viable functional lung imaging modality?. European Journal of Radiology, 2007, 64, 335-344.	1.2	130
41	Dr Bert et al replies. Academic Radiology, 2007, 14, 117-118.	1.3	0
42	T_1 and T_2 measurements of the fine structures of the in vivo and enucleated human eye. Journal of Magnetic Resonance Imaging, 2007, 26, 510-518.	1.9	32
43	High-Resolution MR Imaging of the Human Eye 2005. Academic Radiology, 2006, 13, 368-378.	1.3	33
44	Pilocarpine's effects on the blood-aqueous barrier of the human eye as assessed by high-resolution, contrast magnetic resonance imaging. Experimental Eye Research, 2006, 82, 458-464.	1.2	21
45	Demonstration of an Anterior Diffusional Pathway for Solutes in the Normal Human Eye with High Spatial Resolution Contrast-Enhanced Dynamic MR Imaging. , 2006, 47, 5153.		47
46	Orbitofrontal correlates of aggression and impulsivity in psychiatric patients. Psychiatry Research - Neuroimaging, 2006, 147, 213-220.	0.9	64
47	The Nutrition, Aging, and Memory in Elders (NAME) study: design and methods for a study of micronutrients and cognitive function in a homebound elderly population. International Journal of Geriatric Psychiatry, 2006, 21, 519-528.	1.3	66
48	Magnetic resonance imaging of the cervix during pregnancy: Effect of gestational age and prior vaginal birth. American Journal of Obstetrics and Gynecology, 2005, 193, 1554-1560.	0.7	22
49	Magnetic resonance imaging of the cervix during pregnancy: Effect of gestational age and prior vaginal birth. American Journal of Obstetrics and Gynecology, 2004, 191, S175.	0.7	0
50	Homocysteine and B vitamins relate to brain volume and white-matter changes in geriatric patients with psychiatric disorders. American Journal of Geriatric Psychiatry, 2004, 12, 631-8.	0.6	54
51	Measuring surface-area-to-volume ratios in soft porous materials using laser-polarized xenon interphase exchange nuclear magnetic resonance. Journal of Physics Condensed Matter, 2002, 14, L297-L304.	0.7	66
52	A position-sensitive neutron spectrometer/dosimeter based on pressurized superheated drop (bubble) detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2002, 476, 113-118.	0.7	10
53	Tortuosity measurement and the effects of finite pulse widths on xenon gas diffusion NMR studies of porous media. Magnetic Resonance Imaging, 2001, 19, 345-351.	1.0	58
54	Reduced xenon diffusion for quantitative lung study?the role of SF6. NMR in Biomedicine, 2000, 13, 229-233.	1.6	15

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55	Analytic reconstruction of magnetic resonance imaging signal obtained from a periodic encoding field. <i>Medical Physics</i> , 2000, 27, 2060-2064.	1.6	0
56	Reconstruction algorithm for novel ultrafast magnetic resonance imaging. <i>International Journal of Imaging Systems and Technology</i> , 1999, 10, 209-215.	2.7	5
57	Probing Porous Media with Gas Diffusion NMR. <i>Physical Review Letters</i> , 1999, 83, 3324-3327.	2.9	187
58	Pulsed-Field-Gradient Measurements of Time-Dependent Gas Diffusion. <i>Journal of Magnetic Resonance</i> , 1998, 135, 478-486.	1.2	79
59	Line scan diffusion imaging: characterization in healthy subjects and stroke patients.. <i>American Journal of Roentgenology</i> , 1998, 171, 85-93.	1.0	133
60	Skeletal muscle chemoreflex and pHi in exercise ventilatory control. <i>Journal of Applied Physiology</i> , 1998, 84, 676-682.	1.2	33
61	5572132 MRI probe for external imaging. <i>Magnetic Resonance Imaging</i> , 1997, 15, XVII.	1.0	0
62	Line scan diffusion imaging. <i>Magnetic Resonance in Medicine</i> , 1996, 36, 509-519.	1.9	241
63	Simultaneous calculation of flow and diffusion sensitivity in steady-state free precession imaging. <i>Magnetic Resonance in Medicine</i> , 1995, 34, 567-579.	1.9	34
64	The rician distribution of noisy mri data. <i>Magnetic Resonance in Medicine</i> , 1995, 34, 910-914.	1.9	2,061
65	NMR diffusion simulation based on conditional random walk. <i>IEEE Transactions on Medical Imaging</i> , 1995, 14, 636-642.	5.4	19
66	Chemical shift imaging of particle filtration in sandstone cores. <i>Magnetic Resonance Imaging</i> , 1994, 12, 313-315.	1.0	2
67	Prototype Miniature Endoluminal MR Imaging Catheter. <i>Journal of Vascular and Interventional Radiology</i> , 1993, 4, 419-427.	0.2	68
68	Application of single species chemical shift imaging to sandstone cores. <i>Magnetic Resonance Imaging</i> , 1991, 9, 797-802.	1.0	2
69	Analytical solution and verification of diffusion effect in SSFP. <i>Magnetic Resonance in Medicine</i> , 1991, 19, 240-246.	1.9	29
70	Application of missing pulse steady state free precession to the study of renal microcirculation. <i>Magnetic Resonance in Medicine</i> , 1991, 20, 66-77.	1.9	10
71	Missing pulse steady-state free precession. <i>Magnetic Resonance in Medicine</i> , 1989, 10, 194-209.	1.9	32
72	Spin-lock techniques and CPMG imaging sequences: A critical appraisal of T1p contrast at 0.15 T. <i>Magnetic Resonance Imaging</i> , 1989, 7, 437-444.	1.0	19

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73	MRI of pulsatile CSF motion within arachnoid cysts. <i>Magnetic Resonance Imaging</i> , 1988, 6, 575-584.	1.0	31
74	Clinical experience with rapid 2DFT SSFP imaging at low field strength. <i>Magnetic Resonance Imaging</i> , 1988, 6, 397-403.	1.0	9
75	Some factors that influence the steady state in steady-state free precession. <i>Magnetic Resonance Imaging</i> , 1988, 6, 405-413.	1.0	67
76	Magnetic Resonance Imaging of Immiscible-Fluid Displacement in Porous Media. <i>Physical Review Letters</i> , 1988, 61, 1489-1492.	2.9	51
77	Fast Imaging of CSF Flow/Motion Patterns Using Steady-State Free Precession (SSFP). <i>Investigative Radiology</i> , 1987, 22, 761-771.	3.5	26
78	Rapid Fourier imaging using steady-state free precession. <i>Magnetic Resonance in Medicine</i> , 1987, 4, 9-23.	1.9	91
79	The application of steady-state free precession to the study of very slow fluid flow. <i>Magnetic Resonance in Medicine</i> , 1986, 3, 140-145.	1.9	71
80	Basic physics of nuclear magnetic resonance. <i>CardioVascular and Interventional Radiology</i> , 1986, 8, 225-237.	0.9	2
81	Mapping of normal and abnormal cerebrospinal fluid flow/motion patterns using steady state free precession imaging. <i>Acta Radiologica Supplementum</i> , 1986, 369, 302-4.	0.5	1
82	The placing of many large superconducting magnets in a limited space. <i>Magnetic Resonance in Medicine</i> , 1985, 2, 262-274.	1.9	1
83	High field NMR studies of static ordering and spin energy coupling in MnF ₂ . <i>Journal of Applied Physics</i> , 1981, 52, 1938-1940.	1.1	4
84	Towards Posture-Dependent Human Pulmonary Oxygen Mapping Using Hyperpolarized Helium and an Open-Access MRI System. , 0, , 117-127.		0