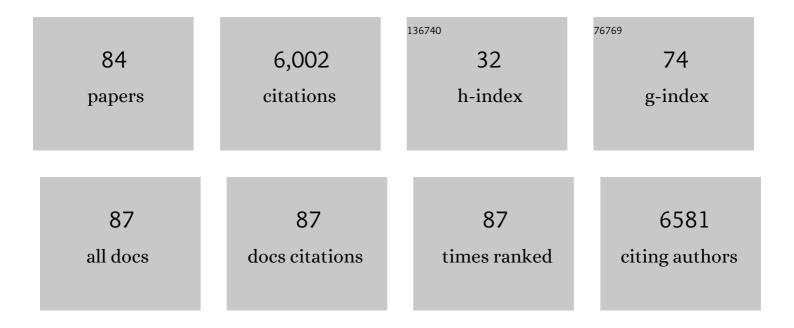
## Samuel Patz

List of Publications by Year in descending order

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SAMILEL DATZ

#	Article	IF	CITATIONS
1	The rician distribution of noisy mri data. Magnetic Resonance in Medicine, 1995, 34, 910-914.	1.9	2,061
2	25-Hydroxyvitamin D, dementia, and cerebrovascular pathology in elders receiving home services. Neurology, 2010, 74, 18-26.	1.5	273
3	Line scan diffusion imaging. Magnetic Resonance in Medicine, 1996, 36, 509-519.	1.9	241
4	Evidence for Adult Lung Growth in Humans. New England Journal of Medicine, 2012, 367, 244-247.	13.9	237
5	Near-unity nuclear polarization with an open-source <sup>129</sup> Xe hyperpolarizer for NMR and MRI. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 14150-14155.	3.3	193
6	Probing Porous Media with Gas Diffusion NMR. Physical Review Letters, 1999, 83, 3324-3327.	2.9	187
7	Large Production System for Hyperpolarized 129Xe for Human Lung Imaging Studies. Academic Radiology, 2008, 15, 683-692.	1.3	137
8	Line scan diffusion imaging: characterization in healthy subjects and stroke patients American Journal of Roentgenology, 1998, 171, 85-93.	1.0	133
9	Hyperpolarized 129Xe MRI: A viable functional lung imaging modality?. European Journal of Radiology, 2007, 64, 335-344.	1.2	130
10	Quantitative CT Measurement of Cross-sectional Area of Small Pulmonary Vessel in COPD. Academic Radiology, 2010, 17, 93-99.	1.3	123
11	Human Pulmonary Imaging and Spectroscopy with Hyperpolarized 129Xe at 0.2T. Academic Radiology, 2008, 15, 713-727.	1.3	121
12	Diffusion Tensor Imaging, White Matter Lesions, the Corpus Callosum, and Gait in the Elderly. Stroke, 2009, 40, 3816-3820.	1.0	95
13	Rapid Fourier imaging using steady-state free precession. Magnetic Resonance in Medicine, 1987, 4, 9-23.	1.9	91
14	Quantification of Age-Related and per Diopter Accommodative Changes of the Lens and Ciliary Muscle in the Emmetropic Human Eye. , 2013, 54, 1095.		88
15	Pulsed-Field-Gradient Measurements of Time-Dependent Gas Diffusion. Journal of Magnetic Resonance, 1998, 135, 478-486.	1.2	79
16	Diffusion of hyperpolarized <sup>129</sup> Xe in the lung: a simplified model of <sup>129</sup> Xe septal uptake and experimental results. New Journal of Physics, 2011, 13, 015009.	1.2	78
17	The application of steady-state free precession to the study of very slow fluid flow. Magnetic Resonance in Medicine, 1986, 3, 140-145.	1.9	71
18	Prototype Miniature Endoluminal MR Imaging Catheter. Journal of Vascular and Interventional Radiology, 1993, 4, 419-427.	0.2	68

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19	Some factors that influence the steady state in steady-state free precession. Magnetic Resonance Imaging, 1988, 6, 405-413.	1.0	67
20	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
21	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
22	REVIEW: MR elastography of brain tumors. NeuroImage: Clinical, 2020, 25, 102109.	1.4	65
23	Orbitofrontal correlates of aggression and impulsivity in psychiatric patients. Psychiatry Research - Neuroimaging, 2006, 147, 213-220.	0.9	64
24	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
25	XeNA: An automated â€~open-source' 129Xe hyperpolarizer for clinical use. Magnetic Resonance Imaging, 2014, 32, 541-550.	1.0	57
26	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
27	Magnetic Resonance Imaging of Immiscible-Fluid Displacement in Porous Media. Physical Review Letters, 1988, 61, 1489-1492.	2.9	51
28	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
29	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
30	Simultaneous calculation of flow and diffusion sensitivity in steady-state free precession imaging. Magnetic Resonance in Medicine, 1995, 34, 567-579.	1.9	34
31	Lung Motion and Volume Measurement by Dynamic 3D MRI Using a 128-Channel Receiver Coil. Academic Radiology, 2009, 16, 22-27.	1.3	34
32	Skeletal muscle chemoreflex and pHi in exercise ventilatory control. Journal of Applied Physiology, 1998, 84, 676-682.	1.2	33
33	High-Resolution MR Imaging of the Human Eye 2005. Academic Radiology, 2006, 13, 368-378.	1.3	33
34	Missing pulse steady-state free precession. Magnetic Resonance in Medicine, 1989, 10, 194-209.	1.9	32
35	<i>T</i> <sub>1</sub> and <i>T</i> <sub>2</sub> 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
36	Hyperpolarized Gas MR Imaging of the Lung: Current Status as a Research Tool. Journal of Thoracic Imaging, 2009, 24, 181-188.	0.8	32

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37	Imaging localized neuronal activity at fast time scales through biomechanics. Science Advances, 2019, 5, eaav3816.	4.7	32
38	MRI of pulsatile CSF motion within arachnoid cysts. Magnetic Resonance Imaging, 1988, 6, 575-584.	1.0	31
39	Singleâ€breath xenon polarization transfer contrast (SBâ€XTC): Implementation and initial results in healthy humans. Journal of Magnetic Resonance Imaging, 2013, 37, 457-470.	1.9	31
40	Analytical solution and verification of diffusion effect in SSFP. Magnetic Resonance in Medicine, 1991, 19, 240-246.	1.9	29
41	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
42	Physiology-Based MR Imaging Assessment of CSF Flow at the Foramen Magnum with a Valsalva Maneuver. American Journal of Neuroradiology, 2013, 34, 1857-1862.	1.2	27
43	Fast Imaging of CSF Flow/Motion Patterns Using Steady-State Free Precession (SSFP). Investigative Radiology, 1987, 22, 761-771.	3.5	26
44	Characterization of glioblastoma in an orthotopic mouse model with magnetic resonance elastography. NMR in Biomedicine, 2018, 31, e3840.	1.6	25
45	Functional MR Imaging of the Lung. Magnetic Resonance Imaging Clinics of North America, 2008, 16, 275-289.	0.6	23
46	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
47	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
48	Spin-lock techniques and CPMG imaging sequences: A critical appraisal of T1p contrast at 0.15 T. Magnetic Resonance Imaging, 1989, 7, 437-444.	1.0	19
49	NMR diffusion simulation based on conditional random walk. IEEE Transactions on Medical Imaging, 1995, 14, 636-642.	5.4	19
50	Posture-dependent Human 3He Lung Imaging in an Open-access MRI System. Academic Radiology, 2008, 15, 728-739.	1.3	17
51	Cough-Associated Changes in CSF Flow in Chiari I Malformation Evaluated by Real-Time MRI. American Journal of Neuroradiology, 2016, 37, 825-830.	1.2	17
52	Reduced xenon diffusion for quantitative lung study?the role of SF6. NMR in Biomedicine, 2000, 13, 229-233.	1.6	15
53	Novel MR Imaging Applications for Pleural evaluation. Magnetic Resonance Imaging Clinics of North America, 2015, 23, 179-195.	0.6	15
54	A portable singleâ€ <b>s</b> ided magnet system for remote NMR measurements of pulmonary function. NMR in Biomedicine, 2014, 27, 1479-1489.	1.6	14

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55	Inhalation heterogeneity from subresidual volumes in elite divers. Journal of Applied Physiology, 2010, 109, 1969-1973.	1.2	12
56	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
57	Relationship between Cough-Associated Changes in CSF Flow and Disease Severity in Chiari I Malformation: An Exploratory Study Using Real-Time MRI. American Journal of Neuroradiology, 2018, 39, 1267-1272.	1.2	11
58	Magnetic Resonance Elastography reveals effects of anti-angiogenic glioblastoma treatment on tumor stiffness and captures progression in an orthotopic mouse model. Cancer Imaging, 2020, 20, 35.	1.2	11
59	Application of missing pulse steady state free precession to the study of renal microcirculation. Magnetic Resonance in Medicine, 1991, 20, 66-77.	1.9	10
60	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
61	Toward C13 hyperpolarized biomarkers produced by thermal mixing with hyperpolarized X129e. Journal of Chemical Physics, 2009, 131, 044508.	1.2	10
62	Clinical experience with rapid 2DFT SSFP imaging at low field strength. Magnetic Resonance Imaging, 1988, 6, 397-403.	1.0	9
63	Reconstruction algorithm for novel ultrafast magnetic resonance imaging. International Journal of Imaging Systems and Technology, 1999, 10, 209-215.	2.7	5
64	Evidence of Adult Lung Growth in Humans. New England Journal of Medicine, 2012, 367, 1566-1567.	13.9	5
65	High field NMR studies of static ordering and spin energy coupling in MnF2. Journal of Applied Physics, 1981, 52, 1938-1940.	1.1	4
66	Exploring collagen self-assembly by NMR. Physical Chemistry Chemical Physics, 2010, 12, 14169.	1.3	4
67	Basic physics of nuclear magnetic resonance. CardioVascular and Interventional Radiology, 1986, 8, 225-237.	0.9	2
68	Application of single species chemical shift imaging to sandstone cores. Magnetic Resonance Imaging, 1991, 9, 797-802.	1.0	2
69	Chemical shift imaging of particle filtration in sandstone cores. Magnetic Resonance Imaging, 1994, 12, 313-315.	1.0	2
70	Science to Practice: How Do We Interpret the Transfer of Hyperpolarized <sup>129</sup> Xe from Blood into Alveolar Gas?. Radiology, 2009, 252, 319-321.	3.6	2
71	The Kety-Schmidt Technique for Quantitative Perfusion and Oxygen Metabolism Measurements in the MR Imaging Environment. American Journal of Neuroradiology, 2013, 34, E100-E102.	1.2	2
72	Magnetic resonance elastography to study the effect of amyloid plaque accumulation in a mouse model. Journal of Neuroimaging, 2022, , .	1.0	2

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73	The placing of many large superconducting magnets in a limited space. Magnetic Resonance in Medicine, 1985, 2, 262-274.	1.9	1
74	MRI in the Assessment of Cardiopulmonary Interaction. , 2021, , 619-631.		1
75	Mapping of normal and abnormal cerebrospinal fluid flow/motion patterns using steady state free precession imaging. Acta Radiologica Supplementum, 1986, 369, 302-4.	0.5	1
76	5572132 MRI probe for external imaging. Magnetic Resonance Imaging, 1997, 15, XVII.	1.0	0
77	Analytic reconstruction of magnetic resonance imaging signal obtained from a periodic encoding field. Medical Physics, 2000, 27, 2060-2064.	1.6	Ο
78	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
79	Dr Bert et al replies. Academic Radiology, 2007, 14, 117-118.	1.3	Ο
80	Hyperpolarized 129Xenon MRI of the Lung. Medical Radiology, 2017, , 99-124.	0.0	0
81	Cover image, Volume 31 Issue 10. NMR in Biomedicine, 2018, 31, e3825.	1.6	Ο
82	Chapter 19. Xenon Septal Uptake. New Developments in NMR, 2015, , 336-364.	0.1	0
83	MRI of Pulmonary Ventilation. Medical Radiology, 2009, , 35-90.	0.0	Ο
84	Towards Posture-Dependent Human Pulmonary Oxygen Mapping Using Hyperpolarized Helium and an Open-Access MRI System. , 0, , 117-127.		0