Sean B Fain

List of Publications by Year
in descending order

180 papers	7,397 citations	50276 46 h-index	64796 79 g-index
187 all docs	187 docs citations	187 times ranked	6572 citing authors

#	Article	IF	Citations
1	Inflammatory and Comorbid Features of Patients with Severe Asthma and Frequent Exacerbations. American Journal of Respiratory and Critical Care Medicine, 2017, 195, 302-313.	5.6	346
2	Mucus plugs in patients with asthma linked to eosinophilia and airflow obstruction. Journal of Clinical Investigation, 2018, 128, 997-1009.	8.2	337
3	Optimized 3D ultrashort echo time pulmonary MRI. Magnetic Resonance in Medicine, 2013, 70, 1241-1250.	3.0	266
4	Airway Remodeling Measured by Multidetector CT Is Increased in Severe Asthma and Correlates With Pathology. Chest, 2008, 134, 1183-1191.	0.8	260
5	A Multivariate Analysis of Risk Factors for the Air-Trapping Asthmatic Phenotype as Measured by Quantitative CT Analysis. Chest, 2009, 135, 48-56.	0.8	260
6	Severe Asthma. American Journal of Respiratory and Critical Care Medicine, 2012, 185, 356-362.	5.6	242
7	Early Emphysematous Changes in Asymptomatic Smokers: Detection with3He MR Imaging. Radiology, 2006, 239, 875-883.	7.3	194
8	Imaging of lung function using hyperpolarized heliumâ€3 magnetic resonance imaging: Review of current and emerging translational methods and applications. Journal of Magnetic Resonance Imaging, 2010, 32, 1398-1408.	3.4	185
9	Functional lung imaging using hyperpolarized gas MRI. Journal of Magnetic Resonance Imaging, 2007, 25, 910-923.	3.4	180
10	Evaluation of Structure-Function Relationships in Asthma using Multidetector CT and Hyperpolarized He-3 MRI. Academic Radiology, 2008, 15, 753-762.	2.5	139
11	Carotid Artery: Elliptic Centric Contrast-enhanced MR Angiography Compared with Conventional Angiography. Radiology, 2001, 218, 138-143.	7.3	137
12	Effect of windowing and zero-filled reconstruction of MRI data on spatial resolution and acquisition strategy. Journal of Magnetic Resonance Imaging, 2001, 14, 270-280.	3.4	134
13	Assessment of Acute Renal Transplant Rejection with Blood Oxygen Levelâ€"Dependent MR Imaging: Initial Experience. Radiology, 2005, 236, 911-919.	7.3	130
14	Carotid Arteries: Maximizing Arterial to Venous Contrast in Fluoroscopically Triggered Contrast-enhanced MR Angiography with Elliptic Centric View Ordering. Radiology, 1999, 211, 265-273.	7.3	123
15	High-Spatial-Resolution Contrast-enhanced MR Angiography of the Renal Arteries: A Prospective Comparison with Digital Subtraction Angiography. Radiology, 2001, 218, 481-490.	7.3	123
16	Three-dimensional Contrast-enhanced MR Angiography with Real-time Fluoroscopic Triggering: Design Specifications and Technical Reliability in 330 Patient Studies. Radiology, 2000, 215, 584-593.	7.3	122
17	Detection of Age-Dependent Changes in Healthy Adult Lungs With Diffusion-Weighted 3He MRI. Academic Radiology, 2005, 12, 1385-1393.	2.5	117
18	BOLD-MRI assessment of intrarenal oxygenation and oxidative stress in patients with chronic kidney allograft dysfunction. American Journal of Physiology - Renal Physiology, 2007, 292, F513-F522.	2.7	109

#	Article	IF	Citations
19	Functional imaging of the lungs with gas agents. Journal of Magnetic Resonance Imaging, 2016, 43, 295-315.	3.4	98
20	Lung imaging in asthmatic patients: The picture is clearer. Journal of Allergy and Clinical Immunology, 2011, 128, 467-478.	2.9	94
21	Neonatal Pulmonary Magnetic Resonance Imaging of Bronchopulmonary Dysplasia Predicts Short-Term Clinical Outcomes. American Journal of Respiratory and Critical Care Medicine, 2018, 198, 1302-1311.	5.6	93
22	Retrospective respiratory selfâ€gating and removal of bulk motion in pulmonary <scp>UTE MRI</scp> of neonates and adults. Magnetic Resonance in Medicine, 2017, 77, 1284-1295.	3.0	87
23	New magnetic resonance imaging methods in nephrology. Kidney International, 2014, 85, 768-778.	5.2	84
24	Consensus-based technical recommendations for clinical translation of renal ASL MRI. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2020, 33, 141-161.	2.0	80
25	Arterial spin labeling MRI for assessment of perfusion in native and transplanted kidneys. Magnetic Resonance Imaging, 2011, 29, 74-82.	1.8	79
26	Quantitative computed tomographic imagingâ€“based clustering differentiates asthmatic subgroups with distinctive clinical phenotypes. Journal of Allergy and Clinical Immunology, 2017, 140, 690-700.e8.	2.9	79
27	Blood oxygen level-dependent and perfusion magnetic resonance imaging: detecting differences in oxygen bioavailability and blood flow in transplanted kidneys. Magnetic Resonance Imaging, 2010, 28, 56-64.	1.8	78
28	Time-resolved, undersampled projection reconstruction imaging for high-resolution CE-MRA of the distal runoff vessels. Magnetic Resonance in Medicine, 2002, 48, 516-522.	3.0	74
29	Quantitative Magnetic Resonance Imaging of Bronchopulmonary Dysplasia in the Neonatal Intensive Care Unit Environment. American Journal of Respiratory and Critical Care Medicine, 2015, 192, 1215-1222.	5.6	74
30	Theoretical limits of spatial resolution in elliptical-centric contrast-enhanced 3D-MRA. Magnetic Resonance in Medicine, 1999, 42, 1106-1116.	3.0	71
31	Quantitative Magnetic Resonance Imaging of Pulmonary Hypertension. Journal of Thoracic Imaging, 2014, 29, 68-79.	1.5	68
32	Pulmonary MRI of neonates in the intensive care unit using 3D ultrashort echo time and a small footprint MRI system. Journal of Magnetic Resonance Imaging, 2017, 45, 463-471.	3.4	68
33	Consensus-based technical recommendations for clinical translation of renal BOLD MRI. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2020, 33, 199-215.	2.0	68
34	Noninvasive Assessment of Early Kidney Allograft Dysfunction by Blood Oxygen Level-Dependent Magnetic Resonance Imaging. Transplantation, 2006, 82, 621-628.	1.0	67
35	Quantitative assessment of multiscale structural and functional alterations in asthmatic populations. Journal of Applied Physiology, 2015, 118, 1286-1298.	2.5	67
36	Oxygenâ€enhanced 3D radial ultrashort echo time magnetic resonance imaging in the healthy human lung. NMR in Biomedicine, 2014, 27, 1535-1541.	2.8	62

#	Article	IF	Citations
37	Quantification of neonatal lung parenchymal density via ultrashort echo time MRI with comparison to CT. Journal of Magnetic Resonance Imaging, 2017, 46, 992-1000.	3.4	61
38	Reproducibility of renal perfusion MR imaging in native and transplanted kidneys using nonâ€contrast arterial spin labeling. Journal of Magnetic Resonance Imaging, 2011, 33, 1414-1421.	3.4	54
39	The role of hyperpolarized 129xenon in MR imaging of pulmonary function. European Journal of Radiology, 2017, 86, 343-352.	2.6	53
40	Pulmonary 3He magnetic resonance imaging of childhood asthma. Journal of Allergy and Clinical Immunology, 2013, 131, 369-376.e5.	2.9	52
41	Pruning of the Pulmonary Vasculature in Asthma. The Severe Asthma Research Program (SARP) Cohort. American Journal of Respiratory and Critical Care Medicine, 2018, 198, 39-50.	5.6	51
42	Iterative projection reconstruction of time-resolved images using highly-constrained back-projection (HYPR). Magnetic Resonance in Medicine, 2008, 59, 132-139.	3.0	50
43	3D hyperpolarized Heâ€3 MRI of ventilation using a multiâ€echo projection acquisition. Magnetic Resonance in Medicine, 2008, 59, 1062-1071.	3.0	48
44	Transfer of Tolerance to Collagen Type V Suppresses T-Helper-Cell-17 Lymphocyte-Mediated Acute Lung Transplant Rejection. Transplantation, 2009, 88, 1341-1348.	1.0	48
45	Hyperpolarized Helium-3 MRI of exercise-induced bronchoconstriction during challenge and therapy. Journal of Magnetic Resonance Imaging, 2014, 39, 1230-1237.	3.4	48
46	¹⁹F-MRI for monitoring human NK cellsin vivo. OncoImmunology, 2016, 5, e1143996.	4.6	48
47	Standardizing <scp>CT</scp> lung density measure across scanner manufacturers. Medical Physics, 2017, 44, 974-985.	3.0	48
48	Comparing Kidney Perfusion Using Noncontrast Arterial Spin Labeling MRI and Microsphere Methods in an Interventional Swine Model. Investigative Radiology, 2011, 46, 124-131.	6.2	47
49	Pulmonary ventilation imaging in asthma and cystic fibrosis using oxygenâ€enhanced 3D radial ultrashort echo time MRI. Journal of Magnetic Resonance Imaging, 2018, 47, 1287-1297.	3.4	45
50	Magnetic resonance imaging with hyperpolarized agents: methods and applications. Physics in Medicine and Biology, 2017, 62, R81-R123.	3.0	43
51	Measurement and comparison of T1 relaxation times in native and transplanted kidney cortex and medulla. Journal of Magnetic Resonance Imaging, 2011, 33, 1241-1247.	3.4	40
52	Longitudinal Changes in Airway Remodeling and Air Trapping in Severe Asthma. Academic Radiology, 2014, 21, 986-993.	2.5	40
53	Imaging of lung ventilation and respiratory dynamics in a single ventilation cycle using hyperpolarized Heâ€3 MRI. Journal of Magnetic Resonance Imaging, 2007, 26, 630-636.	3.4	39
54	Mucus Plugs Persist in Asthma, and Changes in Mucus Plugs Associate with Changes in Airflow over Time. American Journal of Respiratory and Critical Care Medicine, 2022, 205, 1036-1045.	5.6	39

#	Article	IF	Citations
55	Combined time-resolved and high-spatial-resolution 3D MRA using an extended adaptive acquisition. Journal of Magnetic Resonance Imaging, 2002, 15, 291-301.	3.4	38
56	Longitudinal Assessment of Renal Perfusion and Oxygenation in Transplant Donor-Recipient Pairs Using Arterial Spin Labeling and Blood Oxygen Level-Dependent Magnetic Resonance Imaging. Investigative Radiology, 2016, 51, 113-120.	6.2	38
57	â€œStructure-Function Imaging of Lung Disease Using Ultrashort Echo Time MRIâ€. Academic Radiology, 2019, 26, 431-441.	2.5	37
58	Quantitative Assessment of Regional Dynamic Airway Collapse in Neonates via Retrospectively Respiratoryâ€Gated ¹H Ultrashort Echo Time MRI. Journal of Magnetic Resonance Imaging, 2019, 49, 659-667.	3.4	37
59	Ventilation defect percent in helium-3 magnetic resonance imaging as a biomarker of severe outcomes in asthma. Journal of Allergy and Clinical Immunology, 2018, 141, 1140-1141.e4.	2.9	36
60	Elevated lung volumes in neonates with bronchopulmonary dysplasia measured via MRI. Pediatric Pulmonology, 2019, 54, 1311-1318.	2.0	35
61	Increased Work of Breathing due to Tracheomalacia in Neonates. Annals of the American Thoracic Society, 2020, 17, 1247-1256.	3.2	35
62	Protocols for multiâ€site trials using hyperpolarized ¹²⁹Xe MRI for imaging of ventilation, alveolarâ€airspace size, and gas exchange: A position paper from the ¹²⁹Xe MRI clinical trials consortium. Magnetic Resonance in Medicine, 2021, 86, 2966-2986.	3.0	35
63	Threeâ€dimensional imaging of ventilation dynamics in asthmatics using multiecho projection acquisition with constrained reconstruction. Magnetic Resonance in Medicine, 2009, 62, 1543-1556.	3.0	34
64	Quantitative MR Measures of Intrarenal Perfusion in the Assessment of Transplanted Kidneys. Academic Radiology, 2009, 16, 1077-1085.	2.5	34
65	On the Use of Hyperpolarized Helium MRI for Conformal Avoidance Lung Radiotherapy. Medical Dosimetry, 2010, 35, 297-303.	0.9	34
66	Exercise-induced Bronchoconstriction: Reproducibility of Hyperpolarized³He MR Imaging. Radiology, 2013, 266, 618-625.	7.3	34
67	Floating table isotropic projection (FLIPR) acquisition: A time-resolved 3D method for extended field-of-view MRI during continuous table motion. Magnetic Resonance in Medicine, 2004, 52, 1093-1102.	3.0	31
68	Effect of lanthanide ions on dynamic nuclear polarization enhancement and liquidâ€state T₁ relaxation. Magnetic Resonance in Medicine, 2012, 68, 1949-1954.	3.0	31
69	Hyperpolarized helium-3 magnetic resonance lung imaging of non-sedated infants and young children: a proof-of-concept study. Clinical Imaging, 2017, 45, 105-110.	1.5	31
70	Differentiation of quantitative CT imaging phenotypes in asthma versus COPD. BMJ Open Respiratory Research, 2017, 4, e000252.	3.0	30
71	Quantitative CT metrics are associated with longitudinal lung function decline and future asthma exacerbations: Results from SARP-3. Journal of Allergy and Clinical Immunology, 2021, 148, 752-762.	2.9	30
72	Regional Heterogeneity of Lobar Ventilation in Asthma Using Hyperpolarized Helium-3 MRI. Academic Radiology, 2018, 25, 169-178.	2.5	29

#	Article	IF	Citations
73	Ventilation defects on hyperpolarized helium-3 MRI in asthma are predictive of 2-year exacerbation frequency. Journal of Allergy and Clinical Immunology, 2020, 146, 831-839.e6.	2.9	29
74	Pulmonary Functional Imaging: Part 1â€"State-of-the-Art Technical and Physiologic Underpinnings. Radiology, 2021, 299, 508-523.	7.3	29
75	In Vivo Imaging and Spectroscopy of Dynamic Metabolism Using Simultaneous ^{13}C and ^{1}H MRI. IEEE Transactions on Biomedical Engineering, 2012, 59, 45-49.	4.2	28
76	Threeâ€dimensional pulmonary perfusion MRI with radial ultrashort echo time and spatialâ€"temporal constrained reconstruction. Magnetic Resonance in Medicine, 2015, 73, 555-564.	3.0	28
77	Semiautomated Ventilation Defect Quantification in Exercise-induced Bronchoconstriction Using Hyperpolarized Helium-3 Magnetic Resonance Imaging. Academic Radiology, 2016, 23, 1104-1114.	2.5	28
78	Effects of Atorvastatin on Cerebral Blood Flow in Middle-Aged Adults at Risk for Alzheimerâ€™s Disease: A Pilot Study. Current Alzheimer Research, 2012, 9, 990-997.	1.4	27
79	Relationship between Emphysema Progression at CT and Mortality in Ever-Smokers: Results from the COPDGene and ECLIPSE Cohorts. Radiology, 2021, 299, 222-231.	7.3	27
80	Markers of Vascular Perturbation Correlate with Airway Structural Change in Asthma. American Journal of Respiratory and Critical Care Medicine, 2013, 188, 167-178.	5.6	26
81	Joint spatialâ€spectral reconstruction and kâ€t spirals for accelerated 2D spatial/1D spectral imaging of ¹³C dynamics. Magnetic Resonance in Medicine, 2014, 71, 1435-1445.	3.0	26
82	Phenotype of asthmatics with increased airway S-nitrosoglutathione reductase activity. European Respiratory Journal, 2015, 45, 87-97.	6.7	26
83	Repeatability of regional pulmonary functional metrics of Hyperpolarized ¹²⁹Xe dissolvedâ€phase MRI. Journal of Magnetic Resonance Imaging, 2019, 50, 1182-1190.	3.4	24
84	Three-dimensional Isotropic Functional Imaging of Cystic Fibrosis Using Oxygen-enhanced MRI: Comparison with Hyperpolarized ³He MRI. Radiology, 2019, 290, 229-237.	7.3	24
85	The Precision Interventions for Severe and/or Exacerbation-Prone (PrecISE) Asthma Network: An overview of Network organization, procedures, and interventions. Journal of Allergy and Clinical Immunology, 2022, 149, 488-516.e9.	2.9	24
86	Simultaneous MRI of lung structure and perfusion in a single breathhold. Journal of Magnetic Resonance Imaging, 2015, 41, 52-59.	3.4	23
87	Perfusion of the placenta assessed using arterial spin labeling and ferumoxytol dynamic contrast enhanced magnetic resonance imaging in the rhesus macaque. Magnetic Resonance in Medicine, 2019, 81, 1964-1978.	3.0	23
88	The effects of iterative reconstruction and kernel selection on quantitative computed tomography measures of lung density. Medical Physics, 2017, 44, 2267-2280.	3.0	22
89	Deep convolutional neural networks with multiplane consensus labeling for lung function quantification using UTE proton MRI. Journal of Magnetic Resonance Imaging, 2019, 50, 1169-1181.	3.4	22
90	Mucus Plugs in Asthma at CT Associated with Regional Ventilation Defects at ³He MRI. Radiology, 2022, 303, 184-190.	7.3	22

#	Article	IF	Citations
91	A Comparison of Two Hyperpolarized 129Xe MRI Ventilation Quantification Pipelines: The Effect of Signal to Noise Ratio. Academic Radiology, 2019, 26, 949-959.	2.5	21
92	Application of flow sensitive gradients for improved measures of metabolism using hyperpolarized ¹³c MRI. Magnetic Resonance in Medicine, 2016, 75, 1242-1248.	3.0	20
93	The effects of SNR on ADC measurements in diffusion-weighted hyperpolarized He-3 MRI. Journal of Magnetic Resonance, 2007, 185, 42-49.	2.1	19
94	Measurement of lung airways in three dimensions using hyperpolarized helium-3 MRI. Physics in Medicine and Biology, 2011, 56, 3107-3122.	3.0	19
95	MR measures of renal perfusion, oxygen bioavailability and total renal blood flow in a porcine model: noninvasive regional assessment of renal function. Nephrology Dialysis Transplantation, 2012, 27, 128-135.	0.7	19
96	Redistribution of inhaled hyperpolarized ³He gas during breath-hold differs by asthma severity. Journal of Applied Physiology, 2016, 120, 526-536.	2.5	19
97	A flexible view ordering technique for high-quality real-time 2DFT MR fluoroscopy. Magnetic Resonance in Medicine, 1999, 42, 69-81.	3.0	18
98	Heliumâ€3 MR qâ€space imaging with radial acquisition and iterative highly constrained backâ€projection. Magnetic Resonance in Medicine, 2010, 63, 41-50.	3.0	18
99	Comparison of Models and Contrast Agents for Improved Signal and Signal Linearity in Dynamic Contrast-Enhanced Pulmonary Magnetic Resonance Imaging. Investigative Radiology, 2015, 50, 174-178.	6.2	18
100	Embedded MR fluoroscopy: High temporal resolution real-time imaging during high spatial resolution 3D MRA acquisition. Magnetic Resonance in Medicine, 2001, 46, 690-698.	3.0	16
101	SNR improvement for multiinjection time-resolved high-resolution CE-MRA of the peripheral vasculature. Magnetic Resonance in Medicine, 2003, 49, 909-917.	3.0	16
102	CT reconstruction techniques for improved accuracy of lung CT airway measurement. Medical Physics, 2014, 41, 111911.	3.0	16
103	Evaluation of renal metabolic response to partial ureteral obstruction with hyperpolarized ¹³C MRI. NMR in Biomedicine, 2018, 31, e3846.	2.8	16
104	Artifact reduction in undersampled projection reconstruction MRI of the peripheral vessels using selective excitation. Magnetic Resonance in Medicine, 2004, 51, 1071-1076.	3.0	15
105	Removal of hyperpolarized ¹²⁹Xe gasâ€phase contamination in spectroscopic imaging of the lungs. Magnetic Resonance in Medicine, 2018, 80, 2586-2597.	3.0	15
106	Noise reduction in MR angiography with nonlinear anisotropic filtering. Journal of Magnetic Resonance Imaging, 2004, 19, 632-639.	3.4	14
107	Effect of Reducing Field of View on Multidetector Quantitative Computed Tomography Parameters of Airway Wall Thickness in Asthma. Journal of Computer Assisted Tomography, 2015, 39, 584-590.	0.9	14
108	Time-resolved contrast-enhanced carotid imaging using undersampled projection reconstruction acquisition. Journal of Magnetic Resonance Imaging, 2007, 25, 1093-1099.	3.4	13

#	Article	IF	Citations
109	Simultaneous imaging of ¹³C metabolism and ¹H structure: technical considerations and potential applications. NMR in Biomedicine, 2015, 28, 576-582.	2.8	13
110	Lumen area change (Delta Lumen) between inspiratory and expiratory multidetector computed tomography as a measure of severe outcomes in asthmatic patients. Journal of Allergy and Clinical Immunology, 2018, 142, 1773-1780.e9.	2.9	13
111	Quantitative ferumoxytol-enhanced MRI in pregnancy: A feasibility study in the nonhuman primate. Magnetic Resonance Imaging, 2020, 65, 100-108.	1.8	13
112	Structural and Functional Features on Quantitative Chest Computed Tomography in the Korean Asian versus the White American Healthy Non-Smokers. Korean Journal of Radiology, 2019, 20, 1236.	3.4	13
113	Experimental Estimates of the Constants Relating Signal Change to Contrast Concentration for Cerebral Blood Volume by T2* MRI. Journal of Cerebral Blood Flow and Metabolism, 2006, 26, 760-770.	4.3	12
114	A novel bioreactor for combined magnetic resonance spectroscopy and optical imaging of metabolism in 3D cell cultures. Magnetic Resonance in Medicine, 2019, 81, 3379-3391.	3.0	12
115	Noninvasive mapping of regional response to segmental allergen challenge using magnetic resonance imaging and [F-18]fluorodeoxyglucose positron emission tomography. Magnetic Resonance in Medicine, 2005, 53, 1243-1250.	3.0	11
116	Hyperpolarized 13Carbon MR. Current Pharmaceutical Biotechnology, 2010, 11, 709-719.	1.6	11
117	Signalâ€toâ€noise ratio for hyperpolarized ³He MR imaging of human lungs: A 1.5 T and 3 T comparison. Magnetic Resonance in Medicine, 2011, 66, 1400-1404.	3.0	11
118	Effect of anesthesia on renal R₂* measured by blood oxygen levelâ€dependent MRI. NMR in Biomedicine, 2015, 28, 811-817.	2.8	11
119	QIBA guidance: Computed tomography imaging for COVID-19 quantitative imaging applications. Clinical Imaging, 2021, 77, 151-157.	1.5	11
120	Dependence of venous enhancement on the field of view in 3D contrast-enhanced MRA using the elliptical centric view order. Magnetic Resonance in Medicine, 2001, 45, 1134-1141.	3.0	10
121	A novel MR-guided interventional device for 3D circumferential access to breast tissue. Medical Physics, 2008, 35, 3779-3786.	3.0	10
122	A chemical shift encoding (CSE) approach for spectral selection in fluorineâ€19 MRI. Magnetic Resonance in Medicine, 2018, 79, 2183-2189.	3.0	10
123	Patient-specific modeling of aerosol delivery in healthy and asthmatic adults. Journal of Applied Physiology, 2019, 127, 1720-1732.	2.5	10
124	Interactive three-point localization of double-oblique sections using MR fluoroscopy. Magnetic Resonance in Medicine, 1999, 41, 846-849.	3.0	9
125	Dynamic nuclear polarization system output volume reduction using inert fluids. Journal of Magnetic Resonance Imaging, 2011, 33, 1003-1008.	3.4	9
126	Nox2 and Cyclosporine-Induced Renal Hypoxia. Transplantation, 2016, 100, 1198-1210.	1.0	9

#	Article	IF	Citations
127	Interâ€•and intraâ€‐software reproducibility of computed tomography lung density measurements. Medical Physics, 2020, 47, 2962-2969.	3.0	9
128	Transverse relaxation rates of pulmonary dissolvedâ€‐phase Hyperpolarized ¹²⁹Xe as a biomarker of lung injury in idiopathic pulmonary fibrosis. Magnetic Resonance in Medicine, 2020, 84, 1857-1867.	3.0	9
129	Dynamic contrast enhanced MRI for the evaluation of lung perfusion in idiopathic pulmonary fibrosis. European Respiratory Journal, 2022, 60, 2102058.	6.7	9
130	Potential role of the glycolytic oscillator in acute hypoxia in tumors. Physics in Medicine and Biology, 2015, 60, 9215-9225.	3.0	8
131	Evaluation of a motionâ€‐robust 2D chemical shiftâ€‐encoded technique for R2* and field map quantification in ferumoxytolâ€‐enhanced MRI of the placenta in pregnant rhesus macaques. Journal of Magnetic Resonance Imaging, 2020, 51, 580-592.	3.4	8
132	Hyperpolarized 13C Magnetic Resonance Spectroscopic Imaging of Pyruvate Metabolism in Murine Breast Cancer Models of Different Metastatic Potential. Metabolites, 2021, 11, 274.	2.9	8
133	Ultrashort TE spectroscopic imaging (UTESI) using complex highlyâ€‐constrained backprojection with local reconstruction (HYPR LR). Magnetic Resonance in Medicine, 2009, 62, 127-134.	3.0	7
134	Serum HSP27 is associated with medullary perfusion in kidney allografts. Journal of Nephrology, 2012, 25, 1075-1080.	2.0	7
135	Sex-related differences in pulmonary physiologic outcome measures in a high-risk birth cohort. Journal of Allergy and Clinical Immunology, 2015, 136, 282-287.	2.9	7
136	3D contrast-enhanced MR angiography using fluoroscopic triggering and an elliptical centric view order. International Journal of Cardiovascular Imaging, 1999, 15, 117-129.	0.6	6
137	Pilot study of improved lesion characterization in breast MRI using a 3D radial balanced SSFP technique with isotropic resolution and efficient fatâ€‐water separation. Journal of Magnetic Resonance Imaging, 2009, 30, 135-144.	3.4	6
138	Compressive air trapping in asthma: effects of age, sex, and severity. Journal of Applied Physiology, 2019, 126, 1265-1271.	2.5	6
139	Pulmonary Microvascular Changes in Adult Survivors of Prematurity: Utility of Dynamic Contrastâ€“enhanced Magnetic Resonance Imaging. American Journal of Respiratory and Critical Care Medicine, 2020, 202, 1471-1473.	5.6	6
140	Characterization of and tissue density in the human lung: Application to neonatal imaging in the intensive care unit. Magnetic Resonance in Medicine, 2020, 84, 920-927.	3.0	6
141	Dynamic imaging using motion-compensated smoothness regularization on manifolds (MoCo-SToRM). Physics in Medicine and Biology, 2022, 67, 144001.	3.0	6
142	Atorvastatin Therapy is Associated with Greater and Faster Cerebral Hemodynamic Response. Brain Imaging and Behavior, 2008, 2, 94-104.	2.1	5
143	Modeling Endovascular MRI Coil Coupling With Transmit RF Excitation. IEEE Transactions on Biomedical Engineering, 2017, 64, 70-77.	4.2	5
144	Patient-Specific Computational Simulations of Hyperpolarized ^{3}He MRI Ventilation Defects in Healthy and Asthmatic Subjects. IEEE Transactions on Biomedical Engineering, 2019, 66, 1318-1327.	4.2	5

#	Article	IF	Citations
145	Neonates With Tracheomalacia Generate Auto-Positive End-Expiratory Pressure via Glottis Closure. Chest, 2021, 160, 2168-2177.	0.8	5
146	Excite and receive solenoid radiofrequency coil for MRIâ€guided breast interventions. Magnetic Resonance in Medicine, 2011, 65, 1799-1804.	3.0	4
147	An open source, 3D printed preclinical MRI phantom for repeated measures of contrast agents and reference standards. Biomedical Physics and Engineering Express, 2018, 4, 027005.	1.2	4
148	Estimated Ventricular Size, Asthma Severity,Âand Exacerbations. Chest, 2020, 157, 258-267.	0.8	4
149	Alveolar Airspace Size in Healthy and Diseased Infant Lungs Measured via Hyperpolarized ³He Gas Diffusion Magnetic Resonance Imaging. Neonatology, 2020, 117, 704-712.	2.0	4
150	Safety of repeated hyperpolarized helium 3 magnetic resonance imaging in pediatric asthma patients. Pediatric Radiology, 2020, 50, 646-655.	2.0	4
151	Invited Commentary on â€œQuantitative CT Analysis of Diffuse Lung Diseaseâ€. Radiographics, 2020, 40, E1-E3.	3.3	3
152	Detection and viability of murine NK cells in vivo in a lymphoma model using fluorineâ€19 MRI. NMR in Biomedicine, 2021, 34, e4600.	2.8	3
153	Quantitative CT Characteristics of Cluster Phenotypes in the Severe Asthma Research Program Cohorts. Radiology, 2022, 304, 450-459.	7.3	3
154	Real-time imaging and triggering of 3D contrast-enhanced MR angiograms using MR fluoroscopy. Magnetic Resonance Materials in Physics, Biology, and Medicine, 1999, 8, 196-206.	2.0	2
155	Early emphysematous changes in asymptomatic smokers: Detection with 3He MR imaging. Respiratory Medicine: COPD Update, 2006, 2, 108-109.	0.0	2
156	Using MRI to Reveal (and Resolve) the Complexity of Obstructive Lung Disease. Academic Radiology, 2016, 23, 393-395.	2.5	2
157	Experimental Protocol for MRI Mapping of the Blood Oxygenation-Sensitive Parameters T2* and T2 in the Kidney. Methods in Molecular Biology, 2021, 2216, 403-417.	0.9	2
158	TEM transmission line coil with double nuclear capability. Magnetic Resonance in Medicine, 2007, 58, 800-807.	3.0	1
159	Machine Learning Reveals the Texture of Regional Lung Ventilation at CT. Radiology, 2019, 293, 685-686.	7.3	1
160	Improved reconstruction stability for chemical shift encoded hyperpolarized 13 C magnetic resonance spectroscopic imaging using kâ€t spiral acquisitions. Magnetic Resonance in Medicine, 2020, 84, 25-38.	3.0	1
161	Quantitative CT Imaging in Adults with Asthma Can Predict Both Future Lung Function Decline and Asthma Morbidity: Results from the SARP III Study. , 2020, , .		1
162	Hyperpolarized Noble Gas Ventilation MRI in COPD. Radiology, 2020, 297, 211-213.	7.3	1

#	Article	IF	Citations
163	Hyperpolarized Gas MRI Technology Breaks Through. Chest, 2020, 158, 1293-1295.	0.8	1
164	Measuring the link between cardiac mechanical function and metabolism during hyperpolarized 13C-pyruvate magnetic resonance experiments. Magnetic Resonance Imaging, 2020, 68, 9-17.	1.8	1
165	Effects of neonatal lung abnormalities on parenchymal R 2 * estimates. Journal of Magnetic Resonance Imaging, 2021, 53, 1853-1861.	3.4	1
166	Basics and Clinical Application of the MR Assessment of Ventilation. Medical Radiology, 2021, , 59-89.	0.1	1
167	Quantitative cardiopulmonary magnetic resonance imaging in neonatalÂcongenital diaphragmatic hernia. Pediatric Radiology, 2022, 52, 2306-2318.	2.0	1
168	Aortic Arch and Carotid Artery Single-Shot Gadolinium-Enhanced 3D MR Angiography with an Elliptical Centric Acquisition Order. The Neuroradiology Journal, 1998, 11, 179-183.	0.1	0
169	Exploring new heights with pulmonary functional imaging: insights into high-altitude pulmonary edema. Journal of Applied Physiology, 2017, 122, 853-854.	2.5	0
170	Hyperpolarized Gas MRI of the Lung in Asthma. , 2017, , 223-237.		0
171	Elevated Work of Breathing in Neonates with Tracheomalacia Using Computational Fluid Dynamics. , 2020, , .		0
172	Quantitative Magnetic Resonance Imaging and Computed Tomography Measures of Progression in Idiopathic Pulmonary Fibrosis. , 2020, , .		0
173	Functional MRI of Regional Gas Exchange in IPF Disease Progression. , 2020, , .		0
174	Abnormal Breathing Patterns in Neonatal Lung Disease via 4D Dynamic Chest MRI. , 2021, , .		0
175	Ensemble Machine Learning Using Quantitative Chest CT and Clinical Biomarkers to Predict Asthma Severity and Outcomes. , 2021, , .		0
176	Neonates with Tracheomalacia Generate Auto-PEEP via Glottis Closure Measured by MRI-Based Computational Fluid Dynamics. , 2021, , .		0
177	Signal to concentration proportionality constants for dynamic contrast T2* MRI cerebral blood volume measurements. Journal of Cerebral Blood Flow and Metabolism, 2005, 25, S328-S328.	4.3	0
178	Endothelium in the allograft. Kidney International, 2009, , .	5.2	0
179	Lung Imaging. , 2014, , 1056-1065.		0
180	MO-A-BRD-03: Quantifying 19F-Labeled Human Natural Killer Cell-Trafficking with MRI. Medical Physics, 2014, 41, 408-408.	3.0	0