

# Vikas Gulani

## List of Publications by Year in descending order

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94  
papers

6,498  
citations

94269

37  
h-index

66788

78  
g-index

95  
all docs

95  
docs citations

95  
times ranked

6792  
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetic resonance fingerprinting. <i>Nature</i> , 2013, 495, 187-192.	13.7	1,132
2	Gadolinium deposition in the brain: summary of evidence and recommendations. <i>Lancet Neurology</i> , 2017, 16, 564-570.	4.9	600
3	Parallel MR imaging. <i>Journal of Magnetic Resonance Imaging</i> , 2012, 36, 55-72.	1.9	402
4	MR fingerprinting using fast imaging with steady state precession (FISP) with spiral readout. <i>Magnetic Resonance in Medicine</i> , 2015, 74, 1621-1631.	1.9	309
5	Hepatic Fat Fraction: MR Imaging for Quantitative Measurement and Display—Early Experience. <i>Radiology</i> , 2005, 237, 1048-1055.	3.6	258
6	Inversion recovery TrueFISP: Quantification of T <sub>1</sub> , T <sub>2</sub> , and spin density. <i>Magnetic Resonance in Medicine</i> , 2004, 51, 661-667.	1.9	217
7	SVD Compression for Magnetic Resonance Fingerprinting in the Time Domain. <i>IEEE Transactions on Medical Imaging</i> , 2014, 33, 2311-2322.	5.4	214
8	MR Fingerprinting for Rapid Quantitative Abdominal Imaging. <i>Radiology</i> , 2016, 279, 278-286.	3.6	169
9	MR Fingerprinting of Adult Brain Tumors: Initial Experience. <i>American Journal of Neuroradiology</i> , 2017, 38, 492-499.	1.2	133
10	Slice profile and B <sub>1</sub> corrections in 2D magnetic resonance fingerprinting. <i>Magnetic Resonance in Medicine</i> , 2017, 78, 1781-1789.	1.9	131
11	Development of a Combined MR Fingerprinting and Diffusion Examination for Prostate Cancer. <i>Radiology</i> , 2017, 283, 729-738.	3.6	125
12	Repeatability of magnetic resonance fingerprinting T <sub>1</sub> and T <sub>2</sub> estimates assessed using the ISMRM/NIST MRI system phantom. <i>Magnetic Resonance in Medicine</i> , 2017, 78, 1452-1457.	1.9	123
13	Radiomic features for prostate cancer detection on MRI differ between the transition and peripheral zones: Preliminary findings from a multi-institutional study. <i>Journal of Magnetic Resonance Imaging</i> , 2017, 46, 184-193.	1.9	114
14	Fast 3D magnetic resonance fingerprinting for a whole-brain coverage. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 2190-2197.	1.9	113
15	Use of Diffusion Tensor MRI to Identify Early Changes in Diabetic Nephropathy. <i>American Journal of Nephrology</i> , 2011, 34, 476-482.	1.4	100
16	Phase I dose-escalation study of stereotactic body radiotherapy (SBRT) for poor surgical candidates with localized renal cell carcinoma. <i>Radiotherapy and Oncology</i> , 2015, 117, 183-187.	0.3	93
17	IR TrueFISP with a golden-ratio-based radial readout: Fast quantification of T <sub>1</sub> , T <sub>2</sub> , and proton density. <i>Magnetic Resonance in Medicine</i> , 2013, 69, 71-81.	1.9	91
18	Non-Cartesian parallel imaging reconstruction. <i>Journal of Magnetic Resonance Imaging</i> , 2014, 40, 1022-1040.	1.9	90

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19	Sparse Reconstruction Techniques in Magnetic Resonance Imaging. Investigative Radiology, 2016, 51, 349-364.	3.5	81
20	Magnetic resonance fingerprinting: a technical review. Magnetic Resonance in Medicine, 2019, 81, 25-46.	1.9	80
21	Value of MRI in medicine: More than just another test?. Journal of Magnetic Resonance Imaging, 2019, 49, e14-e25.	1.9	78
22	Reproducibility and Repeatability of MR Fingerprinting Relaxometry in the Human Brain. Radiology, 2019, 292, 429-437.	3.6	78
23	Magnetic resonance fingerprinting “ An overview. Current Opinion in Biomedical Engineering, 2017, 3, 56-66.	1.8	75
24	Development of high-resolution 3D MR fingerprinting for detection and characterization of epileptic lesions. Journal of Magnetic Resonance Imaging, 2019, 49, 1333-1346.	1.9	70
25	Simultaneous T1 and T2 Brain Relaxometry in Asymptomatic Volunteers Using Magnetic Resonance Fingerprinting. Tomography, 2015, 1, 136-144.	0.8	68
26	Cost-effectiveness of MR Imaging-guided Strategies for Detection of Prostate Cancer in Biopsy-Naive Men. Radiology, 2017, 285, 157-166.	3.6	66
27	Investigating and reducing the effects of confounding factors for robust T1 and T2 mapping with cardiac MR fingerprinting. Magnetic Resonance Imaging, 2018, 53, 40-51.	1.0	60
28	MR Fingerprinting and ADC Mapping for Characterization of Lesions in the Transition Zone of the Prostate Gland. Radiology, 2019, 292, 685-694.	3.6	59
29	Three-dimensional MR Fingerprinting for Quantitative Breast Imaging. Radiology, 2019, 290, 33-40.	3.6	59
30	A multiple echo pulse sequence for diffusion tensor imaging and its application in excised rat spinal cords. Magnetic Resonance in Medicine, 1997, 38, 868-873.	1.9	58
31	Magnetic resonance fingerprinting Part 1: Potential uses, current challenges, and recommendations. Journal of Magnetic Resonance Imaging, 2020, 51, 675-692.	1.9	58
32	Vascular dynamics and BOLD fMRI: CBF level effects and analysis considerations. NeuroImage, 2006, 32, 1642-1655.	2.1	56
33	Music-based magnetic resonance fingerprinting to improve patient comfort during MRI examinations. Magnetic Resonance in Medicine, 2016, 75, 2303-2314.	1.9	46
34	Targeted Biopsy Validation of Peripheral Zone Prostate Cancer Characterization With Magnetic Resonance Fingerprinting and Diffusion Mapping. Investigative Radiology, 2019, 54, 485-493.	3.5	46
35	MR Molecular Imaging of Prostate Cancer with a Peptide-Targeted Contrast Agent in a Mouse Orthotopic Prostate Cancer Model. Pharmaceutical Research, 2012, 29, 953-960.	1.7	44
36	Magnetic resonance fingerprinting review part 2: Technique and directions. Journal of Magnetic Resonance Imaging, 2020, 51, 993-1007.	1.9	42

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37	Bayesian estimation of multicomponent relaxation parameters in magnetic resonance fingerprinting. <i>Magnetic Resonance in Medicine</i> , 2018, 80, 159-170.	1.9	40
38	Clinical evaluation of CAIPIRINHA: Comparison against a GRAPPA standard. <i>Journal of Magnetic Resonance Imaging</i> , 2014, 39, 189-194.	1.9	37
39	Applications of Time-Resolved MR Angiography. <i>American Journal of Roentgenology</i> , 2011, 196, W613-W620.	1.0	36
40	Towards a Single-Sequence Neurologic Magnetic Resonance Imaging Examination: Multiple-Contrast Images From an IR TrueFISP Experiment. <i>Investigative Radiology</i> , 2004, 39, 767-774.	3.5	35
41	Estimation of perfusion properties with MR Fingerprinting Arterial Spin Labeling. <i>Magnetic Resonance Imaging</i> , 2018, 50, 68-77.	1.0	34
42	Diagnostic Accuracy of a Rapid Biparametric MRI Protocol for Detection of Histologically Proven Prostate Cancer. <i>Urology</i> , 2018, 122, 133-138.	0.5	34
43	Repeatability and reproducibility of 3D MR fingerprinting relaxometry measurements in normal breast tissue. <i>Journal of Magnetic Resonance Imaging</i> , 2019, 50, 1133-1143.	1.9	34
44	Clinical applications of dual-channel transmit MRI: A review. <i>Journal of Magnetic Resonance Imaging</i> , 2015, 42, 855-869.	1.9	32
45	Magnetic Resonance Fingerprinting to Characterize Childhood and Young Adult Brain Tumors. <i>Pediatric Neurosurgery</i> , 2019, 54, 310-318.	0.4	32
46	Magnetic resonance field fingerprinting. <i>Magnetic Resonance in Medicine</i> , 2019, 81, 2347-2359.	1.9	32
47	Simultaneous Mapping of $T_1$ and $T_2$ Using Cardiac Magnetic Resonance Fingerprinting in a Cohort of Healthy Subjects at 1.5T. <i>Journal of Magnetic Resonance Imaging</i> , 2020, 52, 1044-1052.	1.9	31
48	Radiomic analysis of magnetic resonance fingerprinting in adult brain tumors. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2021, 48, 683-693.	3.3	31
49	Free-Breathing Liver Perfusion Imaging Using 3-Dimensional Through-Time Spiral Generalized Autocalibrating Partially Parallel Acquisition Acceleration. <i>Investigative Radiology</i> , 2015, 50, 367-375.	3.5	30
50	MR fingerprinting using the quick echo splitting NMR imaging technique. <i>Magnetic Resonance in Medicine</i> , 2017, 77, 979-988.	1.9	30
51	Partial volume mapping using magnetic resonance fingerprinting. <i>NMR in Biomedicine</i> , 2019, 32, e4082.	1.6	29
52	Diffusion Tensor Magnetic Resonance Imaging. <i>Journal of Neuro-Ophthalmology</i> , 2006, 26, 51-60.	0.4	28
53	Time-Resolved and Bolus-Chase MR Angiography of the Leg: Branching Pattern Analysis and Identification of Septocutaneous Perforators. <i>American Journal of Roentgenology</i> , 2010, 195, 858-864.	1.0	28
54	Rapid volumetric $T_1$ mapping of the abdomen using three-dimensional through-time spiral GRAPPA. <i>Magnetic Resonance in Medicine</i> , 2016, 75, 1457-1465.	1.9	27

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55	Gadolinium Deposition in the Brain: Do We Know Enough to Change Practice?. <i>Radiology</i> , 2016, 279, 323-326.	3.6	26
56	Multiparametric MR Imaging in Abdominal Malignancies. <i>Magnetic Resonance Imaging Clinics of North America</i> , 2016, 24, 157-186.	0.6	26
57	T1 and T2 MR fingerprinting measurements of prostate cancer and prostatitis correlate with deep learning-derived estimates of epithelium, lumen, and stromal composition on corresponding whole mount histopathology. <i>European Radiology</i> , 2021, 31, 1336-1346.	2.3	24
58	Quantitative High-Resolution Renal Perfusion Imaging Using 3-Dimensional Through-Time Radial Generalized Autocalibrating Partially Parallel Acquisition. <i>Investigative Radiology</i> , 2014, 49, 666-674.	3.5	21
59	Diffusion-prepared fast imaging with steady-state free precession (DP-FISP): A rapid diffusion MRI technique at 7 T. <i>Magnetic Resonance in Medicine</i> , 2012, 68, 868-873.	1.9	20
60	Parallel Imaging-Based Reduction of Acoustic Noise for Clinical Magnetic Resonance Imaging. <i>Investigative Radiology</i> , 2014, 49, 620-626.	3.5	19
61	Simultaneous magnetic resonance angiography and perfusion (MRAP) measurement: Initial application in lower extremity skeletal muscle. <i>Journal of Magnetic Resonance Imaging</i> , 2013, 38, 1237-1244.	1.9	18
62	Normalized T1 Magnetic Resonance Imaging for Assessment of Regional Lung Function in Adult Cystic Fibrosis Patients - A Cross-Sectional Study. <i>PLoS ONE</i> , 2013, 8, e73286.	1.1	18
63	Contrast-induced nephropathy and nephrogenic systemic fibrosis: minimizing the risk. <i>Canadian Journal of Urology</i> , 2012, 19, 6074-80.	0.0	17
64	Three-dimensional through-time radial GRAPPA for renal MR angiography. <i>Journal of Magnetic Resonance Imaging</i> , 2014, 40, 864-874.	1.9	16
65	Molecular Imaging of Tumors Using a Quantitative T1 Mapping Technique via Magnetic Resonance Imaging. <i>Diagnostics</i> , 2015, 5, 318-332.	1.3	15
66	Realistic 4D MRI abdominal phantom for the evaluation and comparison of acquisition and reconstruction techniques. <i>Magnetic Resonance in Medicine</i> , 2019, 81, 1863-1875.	1.9	14
67	Effect of contrast media on single-shot echo planar imaging: Implications for abdominal diffusion imaging. <i>Journal of Magnetic Resonance Imaging</i> , 2009, 30, 1203-1208.	1.9	12
68	Single breath-hold 3D cardiac T1 mapping using through-time spiral GRAPPA. <i>NMR in Biomedicine</i> , 2018, 31, e3923.	1.6	12
69	Recommendations for Imaging Patients With Cardiac Implantable Electronic Devices (CIEDs). <i>Journal of Magnetic Resonance Imaging</i> , 2021, 53, 1311-1317.	1.9	12
70	Time-Resolved MR Angiography of the Legs at 3 T Using a Low Dose of Gadolinium: Initial Experience and Contrast Dynamics. <i>American Journal of Roentgenology</i> , 2012, 198, 686-691.	1.0	10
71	Dynamic Quantitative T1 Mapping in Orthotopic Brain Tumor Xenografts. <i>Translational Oncology</i> , 2016, 9, 147-154.	1.7	10
72	Multicenter Repeatability and Reproducibility of MR Fingerprinting in Phantoms and in Prostatic Tissue. <i>Magnetic Resonance in Medicine</i> , 2022, 88, 1818-1827.	1.9	10

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73	Apparent wall thickening of cystic renal lesions on MRI. Journal of Magnetic Resonance Imaging, 2008, 28, 103-110.	1.9	9
74	Free-Breathing 3D Liver Perfusion Quantification Using a Dual-Input Two-Compartment Model. Scientific Reports, 2017, 7, 17502.	1.6	7
75	Magnetic Resonance Fingerprinting: Implications and Opportunities for PET/MR. IEEE Transactions on Radiation and Plasma Medical Sciences, 2019, 3, 388-399.	2.7	7
76	Quantitative MRI: Rationale and Challenges. Advances in Magnetic Resonance Technology and Applications, 2020, , xxxvii-li.	0.0	6
77	Diagnostic Yield of Incremental Biopsy Cores and Second Lesion Sampling for In-Gantry MRI-Guided Prostate Biopsy. American Journal of Roentgenology, 2021, 217, 908-918.	1.0	6
78	Device localization and dynamic scan plane selection using a wireless magnetic resonance imaging detector array. Magnetic Resonance in Medicine, 2014, 71, 2243-2249.	1.9	5
79	Chelated or dechelated gadolinium deposition – Authors' reply. Lancet Neurology, The, 2017, 16, 955-956.	4.9	5
80	Promoting Collaborations Between Radiologists and Scientists. Academic Radiology, 2018, 25, 9-17.	1.3	4
81	Observed racial disparity in the negative predictive value of multi-parametric MRI for the diagnosis for prostate cancer. International Urology and Nephrology, 2019, 51, 1343-1348.	0.6	4
82	Inflammatory pseudotumor of kidney: a challenging diagnostic entity. International Braz J Urol: Official Journal of the Brazilian Society of Urology, 2018, 44, 196-198.	0.7	4
83	Quantifying Perfusion Properties with DCE-MRI Using a Dictionary Matching Approach. Scientific Reports, 2020, 10, 10210.	1.6	3
84	<sc>Magnetic Resonance</sc> Imaging During a Pandemic: Recommendations by the <sc>ISMRM</sc> Safety Committee. Journal of Magnetic Resonance Imaging, 2022, 55, 1322-1339.	1.9	3
85	A System for Real-Time, Online Mixed-Reality Visualization of Cardiac Magnetic Resonance Images. Journal of Imaging, 2021, 7, 274.	1.7	3
86	Hypertension and a missing kidney. CKJ: Clinical Kidney Journal, 2012, 5, 327-330.	1.4	2
87	MR fingerprinting using fast imaging with steady state precession (FISP) with spiral readout. Magnetic Resonance in Medicine, 2015, 74, spcone-spcone.	1.9	2
88	Quantitative Imaging of Prostate: Scope and Future Directions. , 2020, , 97-108.		2
89	MR fingerprinting of the prostate. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2022, 35, 557-571.	1.1	2
90	NI-07 * MAGNETIC RESONANCE FINGERPRINTING OF BRAIN TUMORS: INITIAL CLINICAL RESULTS. Neuro-Oncology, 2014, 16, v139-v139.	0.6	1

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91	NIMG-15. VOLUMETRIC 3D MR FINGERPRINTING OF ADULT BRAIN TUMORS: INITIAL RESULTS. Neuro-Oncology, 2017, 19, vi145-vi145.	0.6	1
92	Advantages of time-resolved contrast-enhanced 4D MR angiography in splenic arterial steal syndrome. Clinical Imaging, 2018, 49, 169-173.	0.8	1
93	Editorial on "ACR Guidance Document on MR Safe Practices: Updates and Critical Information 2019". Journal of Magnetic Resonance Imaging, 2020, 51, 339-340.	1.9	1
94	Feasibility of Magnetic Resonance Fingerprinting on Aging MRI Hardware. Tomography, 2022, 8, 10-21.	0.8	1