Christina Andica

List of Publications by Year
in descending order

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64	1,649	279487	344852
papers	citations	23 h-index	36 g-index

65	65	65	1679
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	SyMRI of the Brain. Investigative Radiology, 2017, 52, 647-657.	3.5	154
2	Myelin Measurement: Comparison Between Simultaneous Tissue Relaxometry, Magnetization Transfer Saturation Index, and T1w/T2w Ratio Methods. Scientific Reports, 2018, 8, 10554.	1.6	91
3	Linearity, Bias, Intrascanner Repeatability, and Interscanner Reproducibility of Quantitative Multidynamic Multiecho Sequence for Rapid Simultaneous Relaxometry at 3 T. Investigative Radiology, 2019, 54, 39-47.	3.5	79
4	MR Biomarkers of Degenerative Brain Disorders Derived From Diffusion Imaging. Journal of Magnetic Resonance Imaging, 2020, 52, 1620-1636.	1.9	75
5	Synthetic MRI in the Detection of Multiple Sclerosis Plaques. American Journal of Neuroradiology, 2017, 38, 257-263.	1.2	74
6	Improving the Quality of Synthetic FLAIR Images with Deep Learning Using a Conditional Generative Adversarial Network for Pixel-by-Pixel Image Translation. American Journal of Neuroradiology, 2019, 40, 224-230.	1.2	59
7	Utility of a Multiparametric Quantitative MRI Model That Assesses Myelin and Edema for Evaluating Plaques, Periplaque White Matter, and Normal-Appearing White Matter in Patients with Multiple Sclerosis: A Feasibility Study. American Journal of Neuroradiology, 2017, 38, 237-242.	1.2	51
8	Neurite orientation dispersion and density imaging of the nigrostriatal pathway in Parkinson's disease: Retrograde degeneration observed by tract-profile analysis. Parkinsonism and Related Disorders, 2018, 51, 55-60.	1.1	47
9	Three-dimensional high-resolution simultaneous quantitative mapping of the whole brain with 3D-QALAS: An accuracy and repeatability study. Magnetic Resonance Imaging, 2019, 63, 235-243.	1.0	46
10	Free-Water Imaging in White and Gray Matter in Parkinsonâ€™s Disease. Cells, 2019, 8, 839.	1.8	44
11	Analysis of White Matter Damage in Patients with Multiple Sclerosis via a Novel In Vivo MR Method for Measuring Myelin, Axons, and G-Ratio. American Journal of Neuroradiology, 2017, 38, 1934-1940.	1.2	43
12	Review of synthetic MRI in pediatric brains: Basic principle of MR quantification, its features, clinical applications, and limitations. Journal of Neuroradiology, 2019, 46, 268-275.	0.6	39
13	Diffusion Magnetic Resonance Imaging-Based Biomarkers for Neurodegenerative Diseases. International Journal of Molecular Sciences, 2021, 22, 5216.	1.8	39
14	3D quantitative synthetic MRIâ€derived cortical thickness and subcortical brain volumes: Scanâ€“rescan repeatability and comparison with conventional T₁â€weighted images. Journal of Magnetic Resonance Imaging, 2019, 50, 1834-1842.	1.9	37
15	Convolutional neural network-based segmentation can help in assessing the substantia nigra in neuromelanin MRI. Neuroradiology, 2019, 61, 1387-1395.	1.1	36
16	Deep Learning Approach for Generating MRA Images From 3D Quantitative Synthetic MRI Without Additional Scans. Investigative Radiology, 2020, 55, 249-256.	3.5	34
17	White Matter Abnormalities in Multiple Sclerosis Evaluated by Quantitative Synthetic MRI, Diffusion Tensor Imaging, and Neurite Orientation Dispersion and Density Imaging. American Journal of Neuroradiology, 2019, 40, 1642-1648.	1.2	33
18	Age-Related Changes in Relaxation Times, Proton Density, Myelin, and Tissue Volumes in Adult Brain Analyzed by 2-Dimensional Quantitative Synthetic Magnetic Resonance Imaging. Investigative Radiology, 2021, 56, 163-172.	3.5	30

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19	The Advantage of Synthetic MRI for the Visualization of Early White Matter Change in an Infant with Sturge-Weber Syndrome. Magnetic Resonance in Medical Sciences, 2016, 15, 347-348.	1.1	28
20	Myelin Measurement Using Quantitative Magnetic Resonance Imaging: A Correlation Study Comparing Various Imaging Techniques in Patients with Multiple Sclerosis. Cells, 2020, 9, 393.	1.8	28
21	Advanced diffusion magnetic resonance imaging in patients with Alzheimer's and Parkinson's diseases. Neural Regeneration Research, 2020, 15, 1590.	1.6	28
22	An Investigation of Water Diffusivity Changes along the Perivascular Space in Elderly Subjects with Hypertension. American Journal of Neuroradiology, 2022, 43, 48-55.	1.2	28
23	MR g-ratio-weighted connectome analysis in patients with multiple sclerosis. Scientific Reports, 2019, 9, 13522.	1.6	27
24	Scanâ€“rescan and inter-vendor reproducibility of neurite orientation dispersion and density imaging metrics. Neuroradiology, 2020, 62, 483-494.	1.1	26
25	Dural Enhancement in a Patient with Sturge-Weber Syndrome Revealed by Double Inversion Recovery Contrast Using Synthetic MRI. Magnetic Resonance in Medical Sciences, 2016, 15, 151-152.	1.1	24
26	Spatial Restriction within Intracranial Epidermoid Cysts Observed Using Short Diffusion-time Diffusion-weighted Imaging. Magnetic Resonance in Medical Sciences, 2018, 17, 269-272.	1.1	24
27	The Advantage of Synthetic MRI for the Visualization of Anterior Temporal Pole Lesions on Double Inversion Recovery (DIR), Phase-sensitive Inversion Recovery (PSIR), and Myelin Images in a Patient with CADASIL. Magnetic Resonance in Medical Sciences, 2018, 17, 275-276.	1.1	24
28	Synthetic MR Imaging in the Diagnosis of Bacterial Meningitis. Magnetic Resonance in Medical Sciences, 2017, 16, 91-92.	1.1	23
29	Accelerated Isotropic Multiparametric Imaging by High Spatial Resolution 3D-QALAS With Compressed Sensing. Investigative Radiology, 2021, 56, 292-300.	3.5	23
30	Differentiation of high-grade and low-grade intra-axial brain tumors by time-dependent diffusion MRI. Magnetic Resonance Imaging, 2020, 72, 34-41.	1.0	22
31	Parkinsonâ€™s disease: deep learning with a parameter-weighted structural connectome matrix for diagnosis and neural circuit disorder investigation. Neuroradiology, 2021, 63, 1451-1462.	1.1	22
32	Brain tissue and myelin volumetric analysis in multiple sclerosis at 3T MRI with various in-plane resolutions using synthetic MRI. Neuroradiology, 2019, 61, 1219-1227.	1.1	21
33	Brain White-Matter Degeneration Due to Aging and Parkinson Disease as Revealed by Double Diffusion Encoding. Frontiers in Neuroscience, 2020, 14, 584510.	1.4	18
34	Aberrant myelination in patients with Sturge-Weber syndrome analyzed using synthetic quantitative magnetic resonance imaging. Neuroradiology, 2019, 61, 1055-1066.	1.1	17
35	Neurite orientation dispersion and density imaging reveals white matter microstructural alterations in adults with autism. Molecular Autism, 2021, 12, 48.	2.6	17
36	Gray Matter Alterations in Early and Late Relapsing-Remitting Multiple Sclerosis Evaluated with Synthetic Quantitative Magnetic Resonance Imaging. Scientific Reports, 2019, 9, 8147.	1.6	16

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37	Choroid plexus cysts analyzed using diffusion-weighted imaging with short diffusion-time. Magnetic Resonance Imaging, 2019, 57, 323-327.	1.0	16
38	3D Quantitative Synthetic MRI in the Evaluation of Multiple Sclerosis Lesions. American Journal of Neuroradiology, 2021, 42, 471-478.	1.2	16
39	Neurocognitive and psychiatric disordersâ€related axonal degeneration in Parkinson's disease. Journal of Neuroscience Research, 2020, 98, 936-949.	1.3	15
40	Changes in the ADC of diffusion-weighted MRI with the oscillating gradient spin-echo (OGSE) sequence due to differences in substrate viscosities. Japanese Journal of Radiology, 2018, 36, 415-420.	1.0	13
41	Reduced visualization of cerebral infarction on diffusion-weighted images with short diffusion times. Neuroradiology, 2018, 60, 979-982.	1.1	13
42	White matter alterations in adult with autism spectrum disorder evaluated using diffusion kurtosis imaging. Neuroradiology, 2019, 61, 1343-1353.	1.1	13
43	Microstructural white matter abnormalities in multiple sclerosis and neuromyelitis optica spectrum disorders: Evaluation by advanced diffusion imaging. Journal of the Neurological Sciences, 2022, 436, 120205.	0.3	12
44	Ventricular volumetry and free-water corrected diffusion tensor imaging of the anterior thalamic radiation in idiopathic normal pressure hydrocephalus. Journal of Neuroradiology, 2020, 47, 312-317.	0.6	10
45	White matter and nigral alterations in multiple system atrophy-parkinsonian type. Npj Parkinson's Disease, 2021, 7, 96.	2.5	10
46	Effect of Gadolinium on the Estimation of Myelin and Brain Tissue Volumes Based on Quantitative Synthetic MRI. American Journal of Neuroradiology, 2019, 40, 231-237.	1.2	9
47	Fiber-specific white matter alterations in early-stage tremor-dominant Parkinsonâ€™s disease. Npj Parkinson's Disease, 2021, 7, 51.	2.5	9
48	White matter alterations in Parkinson's disease with levodopa-induced dyskinesia. Parkinsonism and Related Disorders, 2021, 90, 8-14.	1.1	9
49	Advanced Diffusion MR Imaging for Multiple Sclerosis in the Brain and Spinal Cord. Magnetic Resonance in Medical Sciences, 2022, 21, 58-70.	1.1	9
50	Differentiation between multiple sclerosis and neuromyelitis optica spectrum disorders by multiparametric quantitative MRI using convolutional neural network. Journal of Clinical Neuroscience, 2021, 87, 55-58.	0.8	8
51	A strategy to optimize radiation exposure for non-contrast head CT: comparison with the Japanese diagnostic reference levels. Japanese Journal of Radiology, 2016, 34, 451-457.	1.0	7
52	Synthetic MRI showed increased myelin partial volume in the white matter of a patient with Sturge-Weber syndrome. Neuroradiology, 2017, 59, 1065-1066.	1.1	7
53	White matter fiber-specific degeneration in older adults with metabolic syndrome. Molecular Metabolism, 2022, 62, 101527.	3.0	7
54	Effect of hybrid of compressed sensing and parallel imaging on the quantitative values measured by 3D quantitative synthetic MRI: A phantom study. Magnetic Resonance Imaging, 2021, 78, 90-97.	1.0	6

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55	White matter microstructures in Parkinson's disease with and without impulse control behaviors. Annals of Clinical and Translational Neurology, 2022, , .	1.7	6
56	Regional brain gray matter volume in world-class artistic gymnasts. Journal of Physiological Sciences, 2020, 70, 43.	0.9	5
57	Possible Neuroprotective Effects of l-Carnitine on White-Matter Microstructural Damage and Cognitive Decline in Hemodialysis Patients. Nutrients, 2021, 13, 1292.	1.7	4
58	Multiple sclerosis plaques may undergo continuous myelin degradation: a cross-sectional study with myelin and axon-related quantitative magnetic resonance imaging metrics. Neuroradiology, 2022, 64, 465-471.	1.1	4
59	Multimodal magnetic resonance imaging quantification of gray matter alterations in relapsingâ€remitting multiple sclerosis and neuromyelitis optica spectrum disorder. Journal of Neuroscience Research, 2022, 100, 1395-1412.	1.3	3
60	Comparison of magnetization transfer contrast of conventional and simultaneous multislice turbo spin echo acquisitions focusing on excitation time interval. Japanese Journal of Radiology, 2019, 37, 579-589.	1.0	1
61	Connectome analysis of male worldâ€class gymnasts using probabilistic multishell, multitissue constrained spherical deconvolution tracking. Journal of Neuroscience Research, 2021, 99, 2558-2572.	1.3	1
62	Diffusion MRI Captures White Matter Microstructure Alterations in PRKN Disease. Journal of Parkinson's Disease, 2021, 11, 1221-1235.	1.5	1
63	White Matter Myelin Changes Related to Long-term Intensive Training in Japanese World-class Gymnasts. Juntendo Medical Journal, 2020, 66, 21-28.	0.1	0
64	Myelin Imaging Can Be Affected by a Number of Factors. American Journal of Neuroradiology, 2020, 41, E43-E44.	1.2	0