Cristian Tejos

List of Publications by Year in descending order

69 papers	1,100 citations	361413 20 h-index	454955 30 g-index
72 all docs	72 docs citations	72 times ranked	1782 citing authors

#	Article	IF	Citations
1	How feedback, motor imagery, and reward influence brain selfâ€regulation using realâ€time fMRI. Human Brain Mapping, 2016, 37, 3153-3171.	3.6	71
2	Characterization of relapsing-remitting multiple sclerosis patients using support vector machine classifications of functional and diffusion MRI data. NeuroImage: Clinical, 2018, 20, 724-730.	2.7	65
3	A robust multi-scale approach to quantitative susceptibility mapping. NeuroImage, 2018, 183, 7-24.	4.2	60
4	Fast nonlinear susceptibility inversion with variational regularization. Magnetic Resonance in Medicine, 2018, 80, 814-821.	3.0	55
5	Assessment of normal flow patterns in the pulmonary circulation by using 4D magnetic resonance velocity mapping. Magnetic Resonance Imaging, 2013, 31, 178-188.	1.8	52
6	Caval Blood Flow Distribution in Patients with Fontan Circulation: Quantification by Using Particle Traces from 4D Flow MR Imaging. Radiology, 2013, 267, 67-75.	7.3	49
7	Sensitivity analysis of geometric errors in additive manufacturing medical models. Medical Engineering and Physics, 2015, 37, 328-334.	1.7	47
8	3D Quantification of Wall Shear Stress and Oscillatory Shear Index Using a Finite-Element Method in 3D CINE PC-MRI Data of the Thoracic Aorta. IEEE Transactions on Medical Imaging, 2016, 35, 1475-1487.	8.9	42
9	A subject-independent pattern-based Brain-Computer Interface. Frontiers in Behavioral Neuroscience, 2015, 9, 269.	2.0	39
10	Noise in magnitude magnetic resonance images. Concepts in Magnetic Resonance Part A: Bridging Education and Research, 2008, 32A, 409-416.	0.5	35
11	Congenital Heart Disease in Children: Coronary MR Angiography during Systole and Diastole with Dual Cardiac Phase Whole-Heart Imaging. Radiology, 2011, 260, 232-240.	7.3	31
12	Embolization of Incompetent Pelvic Veins for the Treatment of Recurrent Varicose Veins in Lower Limbs and Pelvic Congestion Syndrome. CardioVascular and Interventional Radiology, 2013, 36, 128-132.	2.0	31
13	Red Wine Grape Pomace Attenuates Atherosclerosis and Myocardial Damage and Increases Survival in Association with Improved Plasma Antioxidant Activity in a Murine Model of Lethal Ischemic Heart Disease. Nutrients, 2019, 11, 2135.	4.1	30
14	Realistic aortic phantom to study hemodynamics using MRI and cardiac catheterization in normal and aortic coarctation conditions. Journal of Magnetic Resonance Imaging, 2016, 44, 683-697.	3.4	28
15	Using magnetic resonance phase-contrast velocity mapping for diagnosing pelvic congestion syndrome. Phlebology, 2011, 26, 157-161.	1.2	27
16	Simultaneous left and right ventricle segmentation using topology preserving level sets. Biomedical Signal Processing and Control, 2017, 33, 88-95.	5.7	26
17	ÂHigh prevalence of undiagnosed liver cirrhosis and advanced fibrosis in type 2 diabetic patients. Annals of Hepatology, 2016, 15, 721-8.	1.5	26
18	Threeâ€dimensional quantification of vorticity and helicity from 3D cine PCâ€MRI using finiteâ€element interpolations. Magnetic Resonance in Medicine, 2018, 79, 541-553.	3.0	24

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19	Variability of 4D flow parameters when subjected to changes in MRI acquisition parameters using a realistic thoracic aortic phantom. Magnetic Resonance in Medicine, 2018, 79, 1882-1892.	3.0	23
20	Application of the fractional Fourier transform to image reconstruction in MRI. Magnetic Resonance in Medicine, 2012, 68, 17-29.	3.0	20
21	A Survey on Deep Learning and Explainability for Automatic Report Generation from Medical Images. ACM Computing Surveys, 2022, 54, 1-40.	23.0	20
22	Quantitative assessments of geometric errors for rapid prototyping in medical applications. Rapid Prototyping Journal, 2012, 18, 431-442.	3.2	19
23	Weakâ€harmonic regularization for quantitative susceptibility mapping. Magnetic Resonance in Medicine, 2019, 81, 1399-1411.	3.0	19
24	Cardiovascular magnetic resonance findings in a pediatric population with isolated left ventricular non-compaction. Journal of Cardiovascular Magnetic Resonance, 2012, 14, 5.	3.3	18
25	Hemodynamic Assessment in Patients with One-and-a-Half Ventricle Repair Revealed by Four-Dimensional Flow Magnetic Resonance Imaging. Pediatric Cardiology, 2013, 34, 447-451.	1.3	18
26	The 2016 QSM Challenge: Lessons learned and considerations for a future challenge design. Magnetic Resonance in Medicine, 2020, 84, 1624-1637.	3.0	18
27	Simplex Mesh Diffusion Snakes: Integrating 2D and 3D Deformable Models and Statistical Shape Knowledge inÂaÂVariational Framework. International Journal of Computer Vision, 2009, 85, 19-34.	15.6	17
28	Effects of, and corrections for, cross-term interactions in q-space MRI. Magnetic Resonance in Medicine, 2004, 51, 1048-1054.	3.0	16
29	Quantification of wall shear stress using a finite-element method in multidimensional phase-contrast MR data of the thoracic aorta. Journal of Biomechanics, 2015, 48, 1817-1827.	2.1	15
30	Self-Regulation of the Fusiform Face Area in Autism Spectrum: A Feasibility Study With Real-Time fMRI Neurofeedback. Frontiers in Human Neuroscience, 2019, 13, 446.	2.0	15
31	DeepSPIO: Super Paramagnetic Iron Oxide Particle Quantification Using Deep Learning in Magnetic Resonance Imaging. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 143-153.	13.9	12
32	Comparison of parameter optimization methods for quantitative susceptibility mapping. Magnetic Resonance in Medicine, 2021, 85, 480-494.	3.0	12
33	New respiratory gating technique for whole heart cine imaging: Integration of a navigator slice in steady state free precession sequences. Journal of Magnetic Resonance Imaging, 2011, 34, 211-219.	3.4	10
34	The fractional Fourier transform and quadratic field magnetic resonance imaging. Computers and Mathematics With Applications, 2011, 62, 1576-1590.	2.7	8
35	Chemical species separation with simultaneous estimation of field map and T using a kâ€space formulation. Magnetic Resonance in Medicine, 2012, 68, 400-408.	3.0	8
36	Total liver fat quantification using threeâ€dimensional respiratory selfâ€navigated MRI sequence. Magnetic Resonance in Medicine, 2016, 76, 1400-1409.	3.0	8

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37	Enhancing the Velocity Data From 4D Flow MR Images by Reducing its Divergence. IEEE Transactions on Medical Imaging, 2016, 35, 2353-2364.	8.9	7
38	Intrahepatic portal vein blood volume estimated by non-contrast magnetic resonance imaging for the assessment of portal hypertension. Magnetic Resonance Imaging, 2015, 33, 970-977.	1.8	6
39	Quantification of pulmonary regurgitation in patients with repaired Tetralogy of Fallot by 2D phase-contrast MRI: Differences between the standard method of velocity averaging and a pixel-wise analysis. JRSM Cardiovascular Disease, 2017, 6, 204800401773198.	0.7	5
40	Noise estimation for the velocity in MRI phase-contrast. Magnetic Resonance Imaging, 2019, 63, 250-257.	1.8	5
41	GOFOS, ground optical fog observation system for monitoring the vertical stratocumulus-fog cloud distribution in the coast of the Atacama Desert, Chile. Journal of Hydrology, 2021, 597, 126190.	5.4	5
42	Streaking artifact suppression of quantitative susceptibility mapping reconstructions via L1â€norm data fidelity optimization (L1â€QSM). Magnetic Resonance in Medicine, 2022, 87, 457-473.	3.0	5
43	Segmentation of articular cartilage using active contours and prior knowledge. , 2004, 2004, 1648-51.		4
44	Multiple echo multiâ€shot diffusion sequence. Journal of Magnetic Resonance Imaging, 2014, 39, 1027-1032.	3.4	4
45	TRIO a Technique for Reconstruction Using Intensity Order: Application to Undersampled MRI. IEEE Transactions on Medical Imaging, 2011, 30, 1566-1576.	8.9	3
46	Quantitative description of the morphology and ossification center in the axial skeleton of 20â€week gestation formalinâ€fixed human fetuses using magnetic resonance images. Prenatal Diagnosis, 2012, 32, 252-258.	2.3	3
47	MAPL1: q â€space reconstruction using â€regularized mean apparent propagator. Magnetic Resonance in Medicine, 2020, 84, 2219-2230.	3.0	3
48	A Spatial Off-Resonance Correction in Spirals for Magnetic Resonance Fingerprinting. IEEE Transactions on Medical Imaging, 2021, 40, 3832-3842.	8.9	3
49	Algebraic Reconstruction of Source and Attenuation in SPECT Using First Scattering Measurements. Trends in Mathematics, 2018, , 53-66.	0.1	3
50	Enhancement of Visual Perception with Use of Dynamic Cues. Radiology, 2009, 250, 551-557.	7.3	2
51	4D FLOW: Una nueva herramienta de diagnÃ³stico para cardiopatÃas congÃ©nitas. Revista Chilena De Radiologia, 2011, 17, 134-140.	0.2	2
52	Quantization error in magnetic resonance imaging. Concepts in Magnetic Resonance Part A: Bridging Education and Research, 2014, 43A, 79-89.	0.5	2
53	Comparison of q-Space Reconstruction Methods for Undersampled Diffusion Spectrum Imaging Data. Magnetic Resonance in Medical Sciences, 2020, 19, 108-118.	2.0	2
54	Level set segmentation with shape prior knowledge using intrinsic rotation, translation and scaling alignment. Biomedical Signal Processing and Control, 2021, 63, 102241.	5.7	2

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55	Weighted neurofeedback facilitates greater self-regulation of functional connectivity between the primary motor area and cerebellum. Journal of Neural Engineering, 2021, 18, 056059.	3.5	2
56	3D Non-Destructive Evaluation Techniques for Wood Analysis. , 2014, , 247-280.		2
57	Abnormal nodal and global network organization in resting state functional MRI from subjects with the 22q11 deletion syndrome. Scientific Reports, 2021, 11, 21623.	3.3	2
58	Functional Dysconnectivity in Ventral Striatocortical Systems in 22q11.2 Deletion Syndrome. Schizophrenia Bulletin, 2022, 48, 485-494.	4.3	2
59	Hybrid data fidelity term approach for quantitative susceptibility mapping. Magnetic Resonance in Medicine, 2022, , .	3.0	2
60	AnÃ¡lisis cuantitativo de variables hemodinÃ¡micas de la aorta obtenidas de 4D flow. Revista Chilena De Radiologia, 2012, 18, 62-67.	0.2	1
61	Calcium (Ca2+) waves data calibration and analysis using image processing techniques. BMC Bioinformatics, 2013, 14, 162.	2.6	1
62	A realistic MR compatible aortic phantom to validate hemodynamic parameters from MRI data: aortic coarctation patients comparison using catheterization. Journal of Cardiovascular Magnetic Resonance, 2015, 17, P199.	3.3	1
63	Multiscale gradient domain compression for astronomical high dynamic range imaging. Imaging Science Journal, 2016, 64, 353-363.	0.5	1
64	Accelerating dual cardiac phase images using undersampled radial phase encoding trajectories. Magnetic Resonance Imaging, 2016, 34, 1017-1025.	1.8	1
65	A new discrete dipole kernel for quantitative susceptibility mapping. Magnetic Resonance Imaging, 2018, 51, 7-13.	1.8	1
66	Leptin and adiponectin have opposite effect on ciliary activity, calcium wave velocity and ovum transport velocity in the rat oviduct. FASEB Journal, 2013, 27, 734.1.	0.5	1
67	Phyllotaxis transition over the lifespan of a palm tree using Magnetic Resonance Imaging (MRI) and Terrestrial Laser Scanning (TLS): the case of Jubaea chilensis. Plant Methods, 2022, 18, .	4.3	1
68	MediciÃ³n volumÃ©trica de grasa visceral abdominal con RM y su relaciÃ³n con elastografÃa hepÃ¡tica en una poblaciÃ³n diabÃ©tica. Revista Chilena De Radiologia, 2011, 17, 183-191.	0.2	0
69	Velocity Variability in MRI Phase-Contrast. , 2018, , .		0