Christof Karmonik

List of Publications by Year
in descending order

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71	1,721	218677	302126
papers	citations	26 h-index	39 g-index

72	72	72	2585
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Preliminary Analysis of Brain Footprints in Multiple Sclerosis Females With Detrusor Sphincter Dyssynergia: A Concurrent Urodynamic and Functional Magnetic Resonance Imaging Study. International Neurourology Journal, 2022, 26, S38-46.	1.2	2
2	Music to My Ears: Neural modularity and flexibility differ in response to real-world music stimuli. IBRO Neuroscience Reports, 2022, 12, 98-107.	1.6	2
3	Review of Recent Results using Computational Fluid Dynamics Simulations in Patients Receiving Mechanical Assist Devices for End-Stage Heart Failure. Methodist DeBakey Cardiovascular Journal, 2021, 10, 185.	1.0	17
4	Are White Matter Tract Integrities Different in Multiple Sclerosis Women With Voiding Dysfunction?. Female Pelvic Medicine and Reconstructive Surgery, 2021, 27, e101-e105.	1.1	6
5	Similarity of individual functional brain connectivity patterns formed by music listening quantified with a data-driven approach. International Journal of Computer Assisted Radiology and Surgery, 2020, 15, 703-713.	2.8	5
6	Growth Hormone Alters Brain Morphometry, Connectivity, and Behavior in Subjects with Fatigue after Mild Traumatic Brain Injury. Journal of Neurotrauma, 2020, 37, 1052-1066.	3.4	19
7	Brain activation patterns of female multiple sclerosis patients with voiding dysfunction. Neurourology and Urodynamics, 2020, 39, 969-977.	1.5	12
8	Wall Enhancement, Hemodynamics, and Morphology in Unruptured Intracranial Aneurysms with High Rupture Risk. Translational Stroke Research, 2020, 11, 882-889.	4.2	42
9	Relationship Between Aneurysm Wall Enhancement in Vessel Wall Magnetic Resonance Imaging and Rupture Risk of Unruptured Intracranial Aneurysms. Neurosurgery, 2019, 84, E385-E391.	1.1	50
10	Application of three-dimensional printing for pre-operative planning in hip preservation surgery. Journal of Hip Preservation Surgery, 2019, 6, 164-169.	1.3	14
11	Characterization of functional brain connectivity towards optimization of music selection for therapy: a fMRI study. International Journal of Neuroscience, 2019, 129, 882-889.	1.6	7
12	Similarity of functional connectivity patterns in patients with multiple sclerosis who void spontaneously versus patients with voiding dysfunction. Neurourology and Urodynamics, 2019, 38, 239-247.	1.5	13
13	Data-Driven Machine-Learning Quantifies Differences in the Voiding Initiation Network in Neurogenic Voiding Dysfunction in Women With Multiple Sclerosis. International Neurourology Journal, 2019, 23, 195-204.	1.2	20
14	Workflow for Visualization of Neuroimaging Data with an Augmented Reality Device. Journal of Digital Imaging, 2018, 31, 26-31.	2.9	17
15	Hemodynamic Changes Caused by Multiple Stenting in Vertebral Artery Fusiform Aneurysms: A Patient-Specific Computational Fluid Dynamics Study. American Journal of Neuroradiology, 2018, 39, 118-122.	2.4	23
16	Multiple Aneurysms AnaTomy CHallenge 2018 (MATCH): Phase I: Segmentation. Cardiovascular Engineering and Technology, 2018, 9, 565-581.	1.6	59
17	Concurrent EEG and Functional MRI Recording and Integration Analysis for Dynamic Cortical Activity Imaging. Journal of Visualized Experiments, 2018, , .	0.3	5
18	Four-Dimensional Phase Contrast Magnetic Resonance Imaging Protocol Optimization Using Patient-Specific 3-Dimensional Printed Replicas for InÂVivo Imaging Before and After Flow Diverter Placement. World Neurosurgery, 2017, 105, 775-782.	1.3	10

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19	Functional Magnetic Resonance Imaging with Concurrent Urodynamic Testing Identifies Brain Structures Involved in Micturition Cycle in Patients with Multiple Sclerosis. Journal of Urology, 2017, 197, 438-444.	0.4	42
20	[ICâ€03â€“05]: NONâ€FLUENT PRIMARY PROGRESSIVE APHASIA: PRIONâ€LIKE BEHAVIOR OF MISFOLDED PROTEINS IN THE SYNTACTIC NETWORK. Alzheimer's and Dementia, 2017, 13, P10.	0.8	0
21	P1â€277: Older Healthy People Have Increased Vascular Permeability in Regions Showing â€˜Offâ€Targetâ€™ [¹⁸F]AVâ€1451 UPTAKE. Alzheimer's and Dementia, 2016, 12, P523.	0.8	1
22	Music Listening Modulates Functional Connectivity and Information Flow in the Human Brain. Brain Connectivity, 2016, 6, 632-641.	1.7	37
23	Development of a Severe Mitral Valve Stenosis Secondary to the Treatment of Mitral Regurgitation with a Single MitraClip. Journal of Cardiac Surgery, 2016, 31, 153-155.	0.7	6
24	Paramagnetic Gd3+ labeled red blood cells for magnetic resonance angiography. Biomaterials, 2016, 98, 163-170.	11.4	28
25	Three-dimensional printing of anatomically accurate, patient specific intracranial aneurysm models. Journal of NeuroInterventional Surgery, 2016, 8, 517-520.	3.3	73
26	Hemodynamic and morphological characteristics of unruptured posterior communicating artery aneurysms with oculomotor nerve palsy. Journal of Neurosurgery, 2016, 125, 264-268.	1.6	27
27	Morphological and Hemodynamic Discriminators for Rupture Status in Posterior Communicating Artery Aneurysms. PLoS ONE, 2016, 11, e0149906.	2.5	34
28	Combined Effects of Flow Diverting Strategies and Parent Artery Curvature on Aneurysmal Hemodynamics: A CFD Study. PLoS ONE, 2015, 10, e0138648.	2.5	20
29	A Naturally Occurring Single Amino Acid Replacement in Multiple Gene Regulator of Group A Streptococcus Significantly Increases Virulence. American Journal of Pathology, 2015, 185, 462-471.	3.8	19
30	Hemodynamic assessment of partial mechanical circulatory support: data derived from computed tomography angiographic images and computational fluid dynamics. Cardiovascular Diagnosis and Therapy, 2015, 5, 160-5.	1.7	5
31	Toward Improving Fidelity of Computational Fluid Dynamics Simulations: Boundary Conditions Matter. American Journal of Neuroradiology, 2014, 35, 1549-1550.	2.4	9
32	Comparison of Hemodynamics in the Ascending Aorta Between Pulsatile and Continuous Flow Left Ventricular Assist Devices Using Computational Fluid Dynamics Based on Computed Tomography Images. Artificial Organs, 2014, 38, 142-148.	1.9	34
33	Functional Magnetic Resonance Imaging during Urodynamic Testing Identifies Brain Structures Initiating Micturition. Journal of Urology, 2014, 192, 1149-1154.	0.4	61
34	Fractional anisotropy asymmetry and the side of seizure origin for partial onset-temporal lobe epilepsy. Computerized Medical Imaging and Graphics, 2014, 38, 481-489.	5.8	6
35	Computational fluid dynamics in patients with continuous-flow left ventricular assist device support show hemodynamic alterations in the ascending aorta. Journal of Thoracic and Cardiovascular Surgery, 2014, 147, 1326-1333.e1.	0.8	65
36	Magnetic resonance imaging as a tool to assess reliability in simulating hemodynamics in cerebral aneurysms with a dedicated computational fluid dynamics prototype: preliminary results. Cardiovascular Diagnosis and Therapy, 2014, 4, 207-12.	1.7	7

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37	New horizons in cardiovascular magnetic resonance imaging. Cardiovascular Diagnosis and Therapy, 2014, 4, 54-5.	1.7	0
38	Integration of the computational fluid dynamics technique with MRI in aortic dissections. Magnetic Resonance in Medicine, 2013, 69, 1438-1442.	3.0	20
39	ECG-triggered non-enhanced MR angiography of peripheral arteries in comparison to DSA in patients with peripheral artery occlusive disease. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2013, 26, 271-280.	2.0	19
40	Quantification of speed-up and accuracy of multi-CPU computational flow dynamics simulations of hemodynamics in a posterior communicating artery aneurysm of complex geometry. Journal of NeuroInterventional Surgery, 2013, 5, iii48-iii55.	3.3	8
41	MRIâ€based prediction of pulsed highâ€intensity focused ultrasound effect on tissue transport in rabbit muscle. Journal of Magnetic Resonance Imaging, 2013, 38, 1094-1102.	3.4	10
42	Computational Fluid Dynamics Investigation of Chronic Aortic Dissection Hemodynamics Versus Normal Aorta. Vascular and Endovascular Surgery, 2013, 47, 625-631.	0.7	35
43	State-of-the-art aortic imaging: Part I - fundamentals and perspectives of CT and MRI. Vasa - European Journal of Vascular Medicine, 2013, 42, 395-412.	1.4	30
44	Hemodynamic Changes in Patient-Specific Models of Cerebral Aneurysms With and Without Virtual Flow Diverters Investigated With a Dedicated CFD Research Prototype. , 2013, , .		0
45	Influence of LVAD Cannula Outflow Tract Location on Hemodynamics in the Ascending Aorta. ASAIO Journal, 2012, 58, 562-567.	1.6	46
46	Clinical implications of skeletal muscle blood-oxygenation-level-dependent (BOLD) MRI. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2012, 25, 251-261.	2.0	31
47	Enhanced MRI relaxivity of Gd³⁺â€based contrast agents geometrically confined within porous nanoconstructs. Contrast Media and Molecular Imaging, 2012, 7, 501-508.	0.8	46
48	Estimation of thermal dose from MR thermometry during application of nonablative pulsed high intensity focused ultrasound. Journal of Magnetic Resonance Imaging, 2012, 35, 1169-1178.	3.4	11
49	Blood oxygenation levelâ€dependent (BOLD) MRI of human skeletal muscle at 1.5 and 3 T. Journal of Magnetic Resonance Imaging, 2012, 35, 1227-1232.	3.4	30
50	Aneurysm Volume-to-Ostium Area Ratio: A Parameter Useful for Discriminating the Rupture Status of Intracranial Aneurysms. Neurosurgery, 2011, 68, 310-318.	1.1	68
51	Tetrahedral vs. polyhedral mesh size evaluation on flow velocity and wall shear stress for cerebral hemodynamic simulation. Computer Methods in Biomechanics and Biomedical Engineering, 2011, 14, 9-22.	1.6	116
52	A Computational Fluid Dynamics Study Pre- and Post-Stent Graft Placement in an Acute Type B Aortic Dissection. Vascular and Endovascular Surgery, 2011, 45, 157-164.	0.7	53
53	Temporal variations of wall shear stress parameters in intracranial aneurysmsâ€"importance of patient-specific inflow waveforms for CFD calculations. Acta Neurochirurgica, 2010, 152, 1391-1398.	1.7	49
54	An image analysis pipeline for the semi-automated analysis of clinical fMRI images based on freely available software. Computers in Biology and Medicine, 2010, 40, 279-287.	7.0	8

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55	Impact of tear location on hemodynamics in a type B aortic dissection investigated with computational fluid dynamics. , 2010, 2010, 3138-41.		14
56	Brain activation in complex partial seizures during switching from a the goal-directed task to a resting state: Comparison of fMRI maps to the default mode network. , 2010, 2010, 5685-8.		2
57	Cost function evaluation for the registration of clinical DTI images onto the ICBM DTI81 white matter atlas. Technology and Health Care, 2010, 18, 145-156.	1.2	2
58	An image processing algorithm for the in-vivo quantification and visualization of septum motion in type III B - aortic dissections with cine magnetic resonance imaging. , 2009, 2009, 4391-4.		3
59	Quantitative Segmentation of Principal Carotid Atherosclerotic Lesion Components by Feature Space Analysis Based on Multicontrast MRI at 1.5 T. IEEE Transactions on Biomedical Engineering, 2009, 56, 352-360.	4.2	14
60	Intra-aneurysmal flow patterns and wall shear stresses calculated with computational flow dynamics in an anterior communicating artery aneurysm depend on knowledge of patient-specific inflow rates. Acta Neurochirurgica, 2009, 151, 479-485.	1.7	57
61	Translational studies of pulsed HIFU enhanced tissue permeability: Mechanisms in mouse and rabbit models. , 2009, , .		2
62	Computational Fluid Dynamics As A Tool For Visualizing Hemodynamic Flow Patterns. Methodist DeBakey Cardiovascular Journal, 2009, 5, 26-33.	1.0	9
63	Comparison of velocity patterns in an AComA aneurysm measured with 2D phase contrast MRI and simulated with CFD. Technology and Health Care, 2008, 16, 119-128.	1.2	36
64	Comparison of velocity patterns in an AComA aneurysm measured with 2D phase contrast MRI and simulated with CFD. Technology and Health Care, 2008, 16, 119-28.	1.2	14
65	Computational hemodynamics in the human aorta: a computational fluid dynamics study of three cases with patient-specific geometries and inflow rates. Technology and Health Care, 2008, 16, 343-54.	1.2	13
66	Parallel Image-Based Hemodynamic Simulator. , 2007, , .		3
67	Quantitation and Localization of Matrix Metalloproteinases and Their Inhibitors in Human Carotid Endarterectomy Tissues. Arteriosclerosis, Thrombosis, and Vascular Biology, 2006, 26, 2351-2358.	2.4	93
68	Wall Shear Stress Variations in Basilar Tip Aneurysms investigated with Computational Fluid Dynamics. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2006, , .	0.5	0
69	Stent-assisted coiling of intracranial aneurysms aided by virtual parent artery reconstruction. American Journal of Neuroradiology, 2005, 26, 2368-70.	2.4	9
70	Tracking regression and progression of atherosclerosis in human carotid arteries using high-resolution magnetic resonance imaging. Magnetic Resonance Imaging, 2004, 22, 1249-1258.	1.8	55
71	A technique for improved quantitative characterization of intracranial aneurysms. American Journal of Neuroradiology, 2004, 25, 1158-61.	2.4	18