

David H Laidlaw

List of Publications by Year in descending order

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47
papers

2,557
citations

471509

17
h-index

302126

39
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48
all docs

48
docs citations

48
times ranked

6597
citing authors

#	ARTICLE	IF	CITATIONS
1	A Virtual Reality Memory Palace Variant Aids Knowledge Retrieval from Scholarly Articles. IEEE Transactions on Visualization and Computer Graphics, 2021, 27, 4359-4373.	4.4	11
2	Visualization of 3D Stress Tensor Fields Using Superquadric Glyphs on Displacement Streamlines. IEEE Transactions on Visualization and Computer Graphics, 2021, 27, 3264-3276.	4.4	3
3	Tractography Processing with the Sparse Closest Point Transform. Neuroinformatics, 2021, 19, 367-378.	2.8	3
4	Virtual and augmented reality: New tools for visualizing, analyzing, and communicating complex morphology. Journal of Morphology, 2021, 282, 1785-1800.	1.2	5
5	Topic-Based Exploration and Embedded Visualizations for Research Idea Generation. IEEE Transactions on Visualization and Computer Graphics, 2020, 26, 1592-1607.	4.4	4
6	Measuring the Effects of Scalar and Spherical Colormaps on Ensembles of DMRI Tubes. IEEE Transactions on Visualization and Computer Graphics, 2020, 26, 2818-2833.	4.4	4
7	Predicting Carpal Bone Kinematics Using an Expanded Digital Database of Wrist Carpal Bone Anatomy and Kinematics. Journal of Orthopaedic Research, 2019, 37, 2661-2670.	2.3	19
8	Behavioral inhibition corresponds to white matter fiber bundle integrity in older adults. Brain Imaging and Behavior, 2019, 13, 1602-1611.	2.1	1
9	Preliminary mapping of the structural effects of age in pediatric bipolar disorder with multimodal MR imaging. Psychiatry Research - Neuroimaging, 2018, 273, 54-62.	1.8	15
10	Relating Task Demand, Mental Effort and Task Difficulty with Physiciansâ€™ Performance during Interactions with Electronic Health Records (EHRs). International Journal of Human-Computer Interaction, 2018, 34, 467-475.	4.8	16
11	Cognitive reserve moderates the relationship between neuropsychological performance and white matter fiber bundle length in healthy older adults. Brain Imaging and Behavior, 2017, 11, 632-639.	2.1	19
12	Topological Organization of Whole-Brain White Matter in HIV Infection. Brain Connectivity, 2017, 7, 115-122.	1.7	15
13	Vulnerability of white matter tracts and cognition to the SOD2 polymorphism: A preliminary study of antioxidant defense genes in brain aging. Behavioural Brain Research, 2017, 329, 111-119.	2.2	16
14	Neuroimaging abnormalities in clade C HIV are independent of Tat genetic diversity. Journal of NeuroVirology, 2017, 23, 319-328.	2.1	14
15	A Comparative evaluation of voxel-based spatial mapping in diffusion tensor imaging. NeuroImage, 2017, 146, 100-112.	4.2	22
16	Neuroimaging biomarkers of cognitive decline in healthy older adults via unified learning. , 2017, , .		3
17	Application of a Novel Quantitative Tractography-based Analysis of Diffusion Tensor Imaging to Examine Fiber Bundle Length In Human Cerebral White Matter. Technology and Innovation, 2016, 18, 21-29.	0.2	3
18	Kernel regression estimation of fiber orientation mixtures in diffusion MRI. NeuroImage, 2016, 127, 158-172.	4.2	39

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19	Imaging signatures of meningioma and low-grade glioma: a diffusion tensor, magnetization transfer and quantitative longitudinal relaxation time MRI study. <i>Magnetic Resonance Imaging</i> , 2016, 34, 596-602.	1.8	19
20	Neuromarkers of the common angiotensinogen polymorphism in healthy older adults: A comprehensive assessment of white matter integrity and cognition. <i>Behavioural Brain Research</i> , 2016, 296, 85-93.	2.2	11
21	Regional age differences in gray matter diffusivity among healthy older adults. <i>Brain Imaging and Behavior</i> , 2016, 10, 203-211.	2.1	33
22	MAGI: visualization and collaborative annotation of genomic aberrations. <i>Nature Methods</i> , 2015, 12, 483-484.	19.0	25
23	Fiber bundle length and cognition: a length-based tractography MRI study. <i>Brain Imaging and Behavior</i> , 2015, 9, 765-775.	2.1	20
24	In vivo recruitment patterns in the anterior oblique and dorsoradial ligaments of the first carpometacarpal joint. <i>Journal of Biomechanics</i> , 2015, 48, 1893-1898.	2.1	30
25	Permutation and parametric tests for effect sizes in voxel-based morphometry of gray matter volume in brain structural MRI. <i>Magnetic Resonance Imaging</i> , 2015, 33, 1299-1305.	1.8	28
26	Genetic markers of cholesterol transport and gray matter diffusion: a preliminary study of the CETP I405V polymorphism. <i>Journal of Neural Transmission</i> , 2015, 122, 1581-1592.	2.8	3
27	Older asymptomatic women exhibit patterns of thumb carpometacarpal joint space narrowing that precede changes associated with early osteoarthritis. <i>Journal of Biomechanics</i> , 2015, 48, 3634-3640.	2.1	19
28	Brain structure and cognitive correlates of body mass index in healthy older adults. <i>Behavioural Brain Research</i> , 2015, 278, 342-347.	2.2	55
29	White matter changes with age utilizing quantitative diffusion MRI. <i>Neurology</i> , 2014, 83, 247-252.	1.1	21
30	Thumb carpometacarpal joint congruence during functional tasks and thumb range-of-motion activities. , 2014, 2014, 4354-7.		8
31	The morphology of the thumb carpometacarpal joint does not differ between men and women, but changes with aging and early osteoarthritis. <i>Journal of Biomechanics</i> , 2014, 47, 2709-2714.	2.1	56
32	Estimating Constrained Multi-fiber Diffusion MR Volumes by Orientation Clustering. <i>Lecture Notes in Computer Science</i> , 2013, 16, 82-89.	1.3	5
33	Incorporating GOMS analysis into the design of an EEG data visual analysis tool. , 2012, , .		2
34	Elongation of the Dorsal Carpal Ligaments: A Computational Study of In Vivo Carpal Kinematics. <i>Journal of Hand Surgery</i> , 2012, 37, 1393-1399.	1.6	16
35	Application of uncertainty visualization methods to meteorological trajectories. <i>Earth Science Informatics</i> , 2010, 3, 119-126.	3.2	10
36	Gremlin: An Interactive Visualization Model for Analyzing Genomic Rearrangements. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2010, 16, 918-926.	4.4	24

#	ARTICLE	IF	CITATIONS
37	A Coloring Solution to the Edge Crossing Problem. , 2009, , .		12
38	Comparing 3D Vector Field Visualization Methods: A User Study. IEEE Transactions on Visualization and Computer Graphics, 2009, 15, 1219-1226.	4.4	37
39	Poster: A hybrid direct visual editing method for architectural massing study in virtual environments. , 2009, , .		2
40	The Immunological Genome Project: networks of gene expression in immune cells. Nature Immunology, 2008, 9, 1091-1094.	14.5	1,576
41	Tech-note: Dynamic Dragging for Input of 3D Trajectories. , 2008, , .		19
42	Super-resolution registration using tissue-classified distance fields. IEEE Transactions on Medical Imaging, 2006, 25, 177-187.	8.9	46
43	Subjective Quantification of Perceptual Interactions among some 2D Scientific Visualization Methods. IEEE Transactions on Visualization and Computer Graphics, 2006, 12, 1133-1140.	4.4	15
44	A Kinematics-Based Method For Generating Cartilage Maps and Deformations in the Multi-Articulating Wrist Joint From CT Images. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2006, , .	0.5	1
45	Sampling DTI fibers in the human brain based on DWI forward modeling. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2006, , .	0.5	0
46	Comparing 2D Vector Field Visualization Methods: A User Study. IEEE Transactions on Visualization and Computer Graphics, 2005, 11, 59-70.	4.4	110
47	Three-dimensional, time-resolved (4D) relative pressure mapping using magnetic resonance imaging. Journal of Magnetic Resonance Imaging, 2000, 12, 321-329.	3.4	142