David H Laidlaw

List of Publications by Year
in descending order

47 papers	2,557 citations	471509 17 h-index	302126 39 g-index
48 all docs	48 docs citations	48 times ranked	6597 citing authors

#	Article	IF	Citations
1	The Immunological Genome Project: networks of gene expression in immune cells. Nature Immunology, 2008, 9, 1091-1094.	14.5	1,576
2	Three-dimensional, time-resolved (4D) relative pressure mapping using magnetic resonance imaging. Journal of Magnetic Resonance Imaging, 2000, 12, 321-329.	3.4	142
3	Comparing 2D Vector Field Visualization Methods: A User Study. IEEE Transactions on Visualization and Computer Graphics, 2005, 11, 59-70.	4.4	110
4	The morphology of the thumb carpometacarpal joint does not differ between men and women, but changes with aging and early osteoarthritis. Journal of Biomechanics, 2014, 47, 2709-2714.	2.1	56
5	Brain structure and cognitive correlates of body mass index in healthy older adults. Behavioural Brain Research, 2015, 278, 342-347.	2.2	55
6	Super-resolution registration using tissue-classified distance fields. IEEE Transactions on Medical Imaging, 2006, 25, 177-187.	8.9	46
7	Kernel regression estimation of fiber orientation mixtures in diffusion MRI. NeuroImage, 2016, 127, 158-172.	4.2	39
8	Comparing 3D Vector Field Visualization Methods: A User Study. IEEE Transactions on Visualization and Computer Graphics, 2009, 15, 1219-1226.	4.4	37
9	Regional age differences in gray matter diffusivity among healthy older adults. Brain Imaging and Behavior, 2016, 10, 203-211.	2.1	33
10	In vivo recruitment patterns in the anterior oblique and dorsoradial ligaments of the first carpometacarpal joint. Journal of Biomechanics, 2015, 48, 1893-1898.	2.1	30
11	Permutation and parametric tests for effect sizes in voxel-based morphometry of gray matter volume in brain structural MRI. Magnetic Resonance Imaging, 2015, 33, 1299-1305.	1.8	28
12	MAGI: visualization and collaborative annotation of genomic aberrations. Nature Methods, 2015, 12, 483-484.	19.0	25
13	Gremlin: An Interactive Visualization Model for Analyzing Genomic Rearrangements. IEEE Transactions on Visualization and Computer Graphics, 2010, 16, 918-926.	4.4	24
14	A Comparative evaluation of voxel-based spatial mapping in diffusion tensor imaging. NeuroImage, 2017, 146, 100-112.	4.2	22
15	White matter changes with age utilizing quantitative diffusion MRI. Neurology, 2014, 83, 247-252.	1.1	21
16	Fiber bundle length and cognition: a length-based tractography MRI study. Brain Imaging and Behavior, 2015, 9, 765-775.	2.1	20
17	Tech-note: Dynamic Dragging for Input of 3D Trajectories. , 2008, , .		19
18	Older asymptomatic women exhibit patterns of thumb carpometacarpal joint space narrowing that precede changes associated with early osteoarthritis. Journal of Biomechanics, 2015, 48, 3634-3640.	2.1	19

#	Article	IF	Citations
19	Imaging signatures of meningioma and low-grade glioma: a diffusion tensor, magnetization transfer and quantitative longitudinal relaxation time MRI study. Magnetic Resonance Imaging, 2016, 34, 596-602.	1.8	19
20	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
21	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
22	Elongation of the Dorsal Carpal Ligaments: A Computational Study of In Vivo Carpal Kinematics. Journal of Hand Surgery, 2012, 37, 1393-1399.	1.6	16
23	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
24	Relating Task Demand, Mental Effort and Task Difficulty with Physicians' Performance during Interactions with Electronic Health Records (EHRs). International Journal of Human-Computer Interaction, 2018, 34, 467-475.	4.8	16
25	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
26	Topological Organization of Whole-Brain White Matter in HIV Infection. Brain Connectivity, 2017, 7, 115-122.	1.7	15
27	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
28	Neuroimaging abnormalities in clade C HIV are independent of Tat genetic diversity. Journal of NeuroVirology, 2017, 23, 319-328.	2.1	14
29	A Coloring Solution to the Edge Crossing Problem. , 2009, , .		12
30	Neuromarkers of the common angiotensinogen polymorphism in healthy older adults: A comprehensive assessment of white matter integrity and cognition. Behavioural Brain Research, 2016, 296, 85-93.	2.2	11
31	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
32	Application of uncertainty visualization methods to meteorological trajectories. Earth Science Informatics, 2010, 3, 119-126.	3.2	10
33	Thumb carpometacarpal joint congruence during functional tasks and thumb range-of-motion activities. , 2014, 2014, 4354-7.		8
34	Virtual and augmented reality: New tools for visualizing, analyzing, and communicating complex morphology. Journal of Morphology, 2021, 282, 1785-1800.	1.2	5
35	Estimating Constrained Multi-fiber Diffusion MR Volumes by Orientation Clustering. Lecture Notes in Computer Science, 2013, 16, 82-89.	1.3	5
36	Topic-Based Exploration and Embedded Visualizations for Research Idea Generation. IEEE Transactions on Visualization and Computer Graphics, 2020, 26, 1592-1607.	4.4	4

#	Article	IF	Citations
37	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
38	Genetic markers of cholesterol transport and gray matter diffusion: a preliminary study of the CETP I405V polymorphism. Journal of Neural Transmission, 2015, 122, 1581-1592.	2.8	3
39	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
40	Neuroimaging biomarkers of cognitive decline in healthy older adults via unified learning. , 2017, , .		3
41	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
42	Tractography Processing with the Sparse Closest Point Transform. Neuroinformatics, 2021, 19, 367-378.	2.8	3
43	Poster: A hybrid direct visual editing method for architectural massing study in virtual environments. , 2009, , .		2
44	Incorporating GOMS analysis into the design of an EEG data visual analysis tool. , 2012, , .		2
45	Behavioral inhibition corresponds to white matter fiber bundle integrity in older adults. Brain Imaging and Behavior, 2019, 13, 1602-1611.	2.1	1
46	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
47	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