Daniel Baum

List of Publications by Year in descending order

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430874 361022 1,374 48 18 35 h-index citations g-index papers 52 52 52 1901 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Scattering and phase-contrast X-ray methods reveal damage to glass fibers in endodontic posts following dental bur trimming. Dental Materials, 2021, 37, 201-211.	3.5	6
2	Thinâ€Volume Visualization on Curved Domains. Computer Graphics Forum, 2021, 40, 147-157.	3.0	1
3	Revisiting the Jerash Silver Scroll: A new visual data analysis approach. Digital Applications in Archaeology and Cultural Heritage, 2021, 21, e00186.	1.3	1
4	Semiâ€automatic stitching of filamentous structures in image stacks from serialâ€section electron tomography. Journal of Microscopy, 2021, 284, 25-44.	1.8	18
5	Virtual unfolding of folded papyri. Journal of Cultural Heritage, 2020, 41, 264-269.	3.3	12
6	In-Situ Defect Detection in Laser Powder Bed Fusion by Using Thermography and Optical Tomographyâ€"Comparison to Computed Tomography. Metals, 2020, 10, 103.	2.3	90
7	D'Arcy W. Thompson's Cartesian transformations: a critical evaluation. Zoomorphology, 2020, 139, 293-308.	0.8	2
8	Image analysis pipeline for segmentation of a biological porosity network, the lacuno-canalicular system in stingray tesserae. MethodsX, 2020, 7, 100905.	1.6	1
9	Adapting spherical-harmonics-based geometric morphometrics (SPHARM) for 3D images containing large cavity openings using ambient occlusion: a study with hermit crab claw shape variability. Zoomorphology, 2020, 139, 421-432.	0.8	1
10	4D imaging of lithium-batteries using correlative neutron and X-ray tomography with a virtual unrolling technique. Nature Communications, 2020, 11, 777.	12.8	104
11	Co-aligned chondrocytes: Zonal morphological variation and structured arrangement of cell lacunae in tessellated cartilage. Bone, 2020, 134, 115264.	2.9	20
12	Exposure to Odors Increases Pain Threshold in Chronic Low Back Pain Patients. Pain Medicine, 2020, 21, 2546-2551.	1.9	11
13	A comparative description of the mesosomal musculature in Sphecidae and Ampulicidae (Hymenoptera,) Tj ETQq1 Entomologische Zeitschrift, 2020, 67, 51-67.		14 rgBT /Ov 6
14	High-Throughput Segmentation of Tiled Biological Structures using Random-Walk Distance Transforms. Integrative and Comparative Biology, 2019, 59, 1700-1712.	2.0	16
15	Muscle internal structure revealed by contrast-enhanced νCT and fibre recognition: The hindlimb extensors of an arboreal and a fossorial squirrel. Mammalian Biology, 2019, 99, 71-80.	1.5	8
16	Interactive Visualization of RNA and DNA Structures. IEEE Transactions on Visualization and Computer Graphics, 2019, 25, 967-976.	4.4	11
17	Dust and gas emission from cometary nuclei: the case of comet 67P/Churyumov–Gerasimenko. Advances in Physics: X, 2018, 3, 1404436.	4.1	8
18	Ambient occlusion $\hat{a}\in$ A powerful algorithm to segment shell and skeletal intrapores in computed tomography data. Computers and Geosciences, 2018, 115, 75-87.	4.2	11

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19	Revealing hidden text in rolled and folded papyri. Applied Physics A: Materials Science and Processing, 2017, 123, 1.	2.3	19
20	Adapting trabecular structures for 3D printing: an image processing approach based on $\hat{l}\frac{1}{4}$ CT data. Biomedical Physics and Engineering Express, 2017, 3, 035027.	1.2	2
21	Comparative Visual Analysis of Structureâ€Performance Relations in Complex Bulkâ€Heterojunction Morphologies. Computer Graphics Forum, 2017, 36, 329-339.	3.0	7
22	Visualization of Biomolecular Structures: State of the Art Revisited. Computer Graphics Forum, 2017, 36, 178-204.	3.0	69
23	Automated segmentation of complex patterns in biological tissues: Lessons from stingray tessellated cartilage. PLoS ONE, 2017, 12, e0188018.	2.5	7
24	Long-term macrobioerosion in the Mediterranean Sea assessed by micro-computed tomography. Biogeosciences, 2016, 13, 3461-3474.	3.3	21
25	Mediterranean coldâ€water corals – an important regional carbonate factory?. Depositional Record, 2016, 2, 74-96.	1.7	39
26	Visual Analysis of Biomolecular Cavities: State of the Art. Computer Graphics Forum, 2016, 35, 527-551.	3.0	46
27	A Novel Framework for Visual Detection and Exploration of Performance Bottlenecks in Organic Photovoltaic Solar Cell Materials. Computer Graphics Forum, 2015, 34, 401-410.	3.0	5
28	Aggradation and carbonate accumulation of Holocene Norwegian coldâ€water coral reefs. Sedimentology, 2015, 62, 1873-1898.	3.1	54
29	Two new species of erect Bryozoa (Gymnolaemata: Cheilostomata) andÂthe application of non-destructive imaging methods for quantitative taxonomy. Zootaxa, 2015, 4020, 81-100.	0.5	14
30	Registering 2D and 3D imaging data of bone during healing. Connective Tissue Research, 2015, 56, 133-143.	2.3	9
31	Membrane Protein Structure, Function, and Dynamics: a Perspective from Experiments and Theory. Journal of Membrane Biology, 2015, 248, 611-640.	2.1	157
32	Non-sexual abdominal appendages in adult insects challenge a 300 million year old bauplan. Current Biology, 2014, 24, R16-R17.	3.9	10
33	Ligand Excluded Surface: A New Type of Molecular Surface. IEEE Transactions on Visualization and Computer Graphics, 2014, 20, 2486-2495.	4.4	14
34	The Segmentation of Microtubules in Electron Tomograms Using Amira. Methods in Molecular Biology, 2014, 1136, 261-278.	0.9	29
35	Definition, Extraction, and Validation of Pore Structures in Porous Materials. Mathematics and Visualization, 2014, , 235-248.	0.6	7
36	Automated Stitching of Microtubule Centerlines across Serial Electron Tomograms. PLoS ONE, 2014, 9, e113222.	2.5	31

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37	Anisotropic Sampling of Planar and Two-Manifold Domains for Texture Generation and Glyph Distribution. IEEE Transactions on Visualization and Computer Graphics, 2013, 19, 1782-1794.	4.4	1
38	Exploring cavity dynamics in biomolecular systems. BMC Bioinformatics, 2013, 14, S5.	2.6	38
39	Dynamic channels in biomolecular systems: Path analysis and visualization. , 2012, , .		20
40	Automated segmentation of electron tomograms for a quantitative description of actin filament networks. Journal of Structural Biology, 2012, 177, 135-144.	2.8	186
41	Automated tracing of microtubules in electron tomograms of plastic embedded samples of Caenorhabditis elegans embryos. Journal of Structural Biology, 2012, 178, 129-138.	2.8	101
42	Perceptually Linear Parameter Variations. Computer Graphics Forum, 2012, 31, 535-544.	3.0	9
43	Interactive Rendering of Materials and Biological Structures on Atomic and Nanoscopic Scale. Computer Graphics Forum, 2012, 31, 1325-1334.	3.0	34
44	Voronoi-Based Extraction and Visualization of Molecular Paths. IEEE Transactions on Visualization and Computer Graphics, 2011, 17, 2025-2034.	4.4	49
45	Accelerated Visualization of Dynamic Molecular Surfaces. Computer Graphics Forum, 2010, 29, 943-952.	3.0	42
46	A Point-Matching Based Algorithm for 3D Surface Alignment of Drug-Sized Molecules. Lecture Notes in Computer Science, 2006, , 183-193.	1.3	6
47	Multiple Semi-flexible 3D Superposition of Drug-Sized Molecules. Lecture Notes in Computer Science, 2005, , 198-207.	1.3	8
48	Ontogeny of a tessellated surface: Carapace growth of the longhorn cowfish <i>Lactoria cornuta</i> . Journal of Anatomy, 0, , .	1.5	2