Tim J Senden

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/865312/publications.pdf

Version: 2024-02-01

98 papers 7,994 citations

76196 40 h-index 88 g-index

99 all docs 99 docs citations

99 times ranked 6705 citing authors

#	Article	IF	CITATIONS
1	In vivo tumour imaging employing regional delivery of novel gallium radiolabelled polymer composites. Biomaterials Research, 2021, 25, 7.	3.2	O
2	<p>^{99m}Tc-radiolabeled composites enabling in vivo imaging of arterial dispersal and retention of microspheres in the vascular network of rabbit lungs, liver, and liver tumors</p> . International Journal of Nanomedicine, 2019, Volume 14, 889-900.	3.3	11
3	Regional analysis techniques for integrating experimental and numerical measurements of transport properties of reservoir rocks. Advances in Water Resources, 2017, 100, 48-61.	1.7	6
4	Visualising scales of process: Multi-scalar geoarchaeological investigations of microstratigraphy and diagenesis at hominin bearing sites in South African karst. Journal of Archaeological Science, 2017, 83, 1-11.	1.2	11
5	Questioning hagfish affinities of the enigmatic Devonian vertebrate <i>Palaeospondylus</i> Royal Society Open Science, 2017, 4, 170214.	1.1	7
6	MicroCT reveals domesticated rice (Oryza sativa) within pottery sherds from early Neolithic sites (4150–3265 cal BP) in Southeast Asia. Scientific Reports, 2017, 7, 7410.	1.6	25
7	The mandible and dentition of the Early Cretaceous monotreme <i>Teinolophos trusleri</i> . Alcheringa, 2016, 40, 475-501.	0.5	29
8	First Shark from the Late Devonian (Frasnian) Gogo Formation, Western Australia Sheds New Light on the Development of Tessellated Calcified Cartilage. PLoS ONE, 2015, 10, e0126066.	1.1	27
9	The uptake of soluble and nanoparticulate imaging isotope in model liver tumours after intra-venous and intra-arterial administration. Biomaterials, 2015, 39, 218-224.	5.7	2
10	Mechanical Characterization of Partially Crystallized Sphere Packings. Physical Review Letters, 2014, 113, 148001.	2.9	25
11	Techniques in helical scanning, dynamic imaging and image segmentation for improved quantitative analysis with X-ray micro-CT. Nuclear Instruments & Methods in Physics Research B, 2014, 324, 49-56.	0.6	121
12	Experimental investigation of the mechanical stiffness of periodic framework-patterned elastomers. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2014, 372, 20120035.	1.6	5
13	Microdistribution of Copper in Southern Pine Treated with Particulate Wood Preservatives. ACS Symposium Series, 2014, , 227-238.	0.5	3
14	Micro-CT Analysis of Pores and Organics in Unconventionals Using Novel Contrast Strategies. , 2014, , .		17
15	Laser Actuation of Cantilevers for Picometre Amplitude Dynamic Force Microscopy. Scientific Reports, 2014, 4, 5567.	1.6	25
16	The accumulation of circulating histones on heparan sulphate in the capillary glycocalyx of the lungs. Biomaterials, 2013, 34, 5670-5676.	5.7	34
17	Fossil Musculature of the Most Primitive Jawed Vertebrates. Science, 2013, 341, 160-164.	6.0	57
18	3D characterisation of potential CO ₂ reservoir and seal rocks. Australian Journal of Earth Sciences, 2013, 60, 111-123.	0.4	26

#	Article	IF	Citations
19	Cationised radiolabelled nanoparticles for perfusion imaging of the lungs. Biomaterials, 2013, 34, 1732-1738.	5.7	13
20	Minkowski tensors and local structure metrics: Amorphous and crystalline sphere packings. , 2013, , .		6
21	Grain-based characterisation and acoustic wave propagation in a sand packing subject to triaxial compression. AIP Conference Proceedings, 2013, , .	0.3	2
22	A Gigantic Sarcopterygian (Tetrapodomorph Lobe-Finned Fish) from the Upper Devonian of Gondwana (Eden, New South Wales, Australia). PLoS ONE, 2013, 8, e53871.	1.1	18
23	Investigation of Pore-Scale Mixed Wettability. SPE Journal, 2012, 17, 20-30.	1.7	33
24	3D mapping of deformation in an unconsolidated sand: A micro mechanical study. , 2012, , .		3
25	Qualitative and Quantitative Analyses of the Three-Phase Distribution of Oil, Water, and Gas in Bentheimer Sandstone by Use of Micro-CT Imaging. SPE Reservoir Evaluation and Engineering, 2012, 15, 706-711.	1.1	48
26	The earliest known stem-tetrapod from the Lower Devonian of China. Nature Communications, 2012, 3, 1160.	5.8	60
27	Development of the posterior endocranium of the Devonian dipnoanGriphognathus whitei. Journal of Vertebrate Paleontology, 2012, 32, 781-798.	0.4	3
28	New morphological information on the ptyctodontid fishes (Placodermi, Ptyctodontida) from Western Australia. Journal of Vertebrate Paleontology, 2012, 32, 757-780.	0.4	25
29	Mapping forces in a 3D elastic assembly of grains. Journal of the Mechanics and Physics of Solids, 2012, 60, 55-66.	2.3	65
30	Remobilization of Residual Non-Aqueous Phase Liquid in Porous Media by Freezeâ^'Thaw Cycles. Environmental Science & Environme	4.6	33
31	An elasto-hydrodynamical model of friction for the locomotion of Caenorhabditis elegans. Journal of Biomechanics, 2011, 44, 1117-1122.	0.9	25
32	Disordered spherical bead packs are anisotropic. Europhysics Letters, 2010, 90, 34001.	0.7	70
33	Visualization and numerical analysis of adhesive distribution in particleboard using X-ray micro-computed tomography. International Journal of Adhesion and Adhesives, 2010, 30, 754-762.	1.4	42
34	Stress- and fluid-driven failure during fracture array growth: Implications for coupled deformation and fluid flow in the crust. Geology, 2010, 38, 779-782.	2.0	36
35	3D porosity and mineralogy characterization in tight gas sandstones. The Leading Edge, 2010, 29, 1476-1483.	0.4	95
36	Tomographic image analysis and processing to simulate micro-petrophysical experiments. , 2010, , .		1

#	Article	lF	Citations
37	Dilatancy in Slow Granular Flows. Physical Review Letters, 2009, 102, 228301.	2.9	49
38	Evolution of dipnoans (lungfish) in the Early Devonian of southeastern Australia. Alcheringa, 2009, 33, 59-78.	0.5	9
39	Imaging honey bee brain anatomy with micro-X-ray-computed tomography. Journal of Neuroscience Methods, 2008, 171, 93-97.	1.3	80
40	Live birth in the Devonian period. Nature, 2008, 453, 650-652.	13.7	97
41	Onset of Mechanical Stability in Random Packings of Frictional Spheres. Physical Review Letters, 2008, 101, 018301.	2.9	150
42	Use of gamma emission computed tomography to study the effect of electrolyte concentration on regions of preferred flow and hydraulic conductivity in deep regolith materials. Soil Research, 2008, 46, 101.	0.6	5
43	Focus on Visualization in Physics. New Journal of Physics, 2008, 10, 125001.	1.2	0
44	X-Ray Micro-Tomography Applications Of Relevance To The Petroleum Industry. AIP Conference Proceedings, 2007, , .	0.3	1
45	(U–Th)/He thermochronometry: Mapping 3D geometry using micro-X-ray tomography and solving the associated production–diffusion equation. Chemical Geology, 2007, 242, 126-136.	1.4	36
46	An invariant distribution in static granular media. Europhysics Letters, 2007, 79, 24003.	0.7	74
47	Developing a virtual materials laboratory. Materials Today, 2007, 10, 44-51.	8.3	160
48	Wetting of Fibers. , 2006, , 223-237.		7
49	Elastic and transport properties of cellular solids derived from three-dimensional tomographic images. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2006, 462, 2833-2862.	1.0	48
50	Local and global relations between the number of contacts and density in monodisperse sphere packs. Journal of Statistical Mechanics: Theory and Experiment, 2006, 2006, P07010-P07010.	0.9	49
51	An exceptional Devonian fish from Australia sheds light on tetrapod origins. Nature, 2006, 444, 199-202.	13.7	98
52	Structure and properties of clinical coralline implants measured via 3D imaging and analysis. Biomaterials, 2006, 27, 2776-2786.	5.7	66
53	Quantitative properties of complex porous materials calculated from x-ray νCT images. , 2006, , .		6
54	A Forecast of Developments in Scanned Probe Microscopy. Australian Journal of Chemistry, 2006, 59, 355.	0.5	1

#	Article	IF	CITATIONS
55	Pore Scale Characterization of Carbonates Using X-Ray Microtomography. SPE Journal, 2005, 10, 475-484.	1.7	194
56	Automated measurement of checks at wood surfaces. Measurement: Journal of the International Measurement Confederation, 2005, 37, 109-118.	2.5	28
57	Mechanical and transport properties of polymeric foams derived from 3D images. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2005, 263, 284-289.	2.3	34
58	Virtual Materials Design: Properties of Cellular Solids Derived from 3D Tomographic Images. Advanced Engineering Materials, 2005, 7, 238-243.	1.6	20
59	X-ray observation of micro-failures in granular piles approaching an avalanche. Europhysics Letters, 2005, 71, 932-937.	0.7	29
60	Geometrical structure of disordered sphere packings. Physical Review E, 2005, 71, 061302.	0.8	280
61	An x-ray tomography facility for quantitative prediction of mechanical and transport properties in geological, biological, and synthetic systems. , 2004, , .		15
62	Investigation of microstructural features in regenerating bone using micro computed tomography. Journal of Materials Science: Materials in Medicine, 2004, 15, 529-532.	1.7	22
63	Analysis of 3D bone ingrowth into polymer scaffolds via micro-computed tomography imaging. Biomaterials, 2004, 25, 4947-4954.	5.7	162
64	Polymeric foam properties derived from 3D images. Physica A: Statistical Mechanics and Its Applications, 2004, 339, 131-136.	1.2	17
65	Three-dimensional imaging of multiphase flow in porous media. Physica A: Statistical Mechanics and Its Applications, 2004, 339, 166-172.	1.2	89
66	Investigating the geometrical structure of disordered sphere packings. Physica A: Statistical Mechanics and Its Applications, 2004, 339, 16-23.	1.2	115
67	The hydrophobic force: nanobubbles or polymeric contaminant?. Physica A: Statistical Mechanics and Its Applications, 2004, 339, 101-105.	1.2	48
68	X-ray tomography for mesoscale physics applications. Physica A: Statistical Mechanics and Its Applications, 2004, 339, 152-158.	1.2	108
69	Three-dimensional analysis of cortical bone structure using X-ray micro-computed tomography. Physica A: Statistical Mechanics and Its Applications, 2004, 339, 125-130.	1.2	31
70	Virtual core laboratory: Properties of reservoir rock derived from Xâ€ғay CT images. , 2003, , .		4
71	Microâ€CT facility for imaging reservoir rocks at pore scales. , 2003, , .		8
72	AFM Evidence of Rayleigh Instability in Single Polymer Chains. Langmuir, 2002, 18, 2174-2182.	1.6	105

#	Article	IF	CITATIONS
73	Micromanipulation of phospholipid bilayers by atomic force microscopy. Biochimica Et Biophysica Acta - Biomembranes, 2002, 1564, 165-172.	1.4	31
74	Contact Angles of Aqueous Solutions on Copper Surfaces Bearing Self-Assembled Monolayers. Journal of Chemical Education, 2001, 78, 345.	1.1	14
75	Force microscopy and surface interactions. Current Opinion in Colloid and Interface Science, 2001, 6, 95-101.	3.4	121
76	Atomic force microscopy imaging of DNA-cationic liposome complexes optimised for gene transfection into neuronal cells. Journal of Gene Medicine, 2001, 3, 72-81.	1.4	25
77	Supramolecular structure and nuclear targeting efficiency determine the enhancement of transfection by modified polylysines. Gene Therapy, 2000, 7, 1690-1697.	2.3	73
78	The conformation of adsorbed polyacrylamide and derived polymers. Comptes Rendus Physique, 2000, 1, 1143-1152.	0.1	3
79	Droplet penetration into porous networks: Role of pore morphology. Nordic Pulp and Paper Research Journal, 2000, 15, 554-563.	0.3	26
80	A Method for the Calibration of Force Microscopy Cantilevers via Hydrodynamic Drag. Langmuir, 2000, 16, 9282-9286.	1.6	38
81	Anomalous adhesion in adsorbed polymer layers. European Physical Journal B, 1998, 3, 211-216.	0.6	96
82	Detachment of a single polyelectrolyte chain adsorbed on a charged surface. Europhysics Letters, 1998, 41, 303-308.	0.7	113
83	Nucleation Transitions for InGaAs Islands on Vicinal (100) GaAs. Physical Review Letters, 1997, 78, 4942-4945.	2.9	92
84	Transport in fractured porous solids. Geophysical Research Letters, 1997, 24, 495-498.	1.5	12
85	Surface chemistry and tip-sample interactions in atomic force microscopy. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1995, 94, 29-51.	2.3	223
86	A new electrochemical cell for atomic force microscopy. Review of Scientific Instruments, 1994, 65, 1019-1020.	0.6	17
87	Evidence for perpendicular n-alkane orientation at the liquid/graphite interface. Chemical Physics Letters, 1994, 227, 443-446.	1.2	14
88	Examination of the geometry of long-range tipâ€"sample interaction in atomic force microscopy. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1994, 87, 217-234.	2.3	90
89	Effect of side wall roughness in buried channel waveguides. IEE Proceedings: Optoelectronics, 1994, 141, 242-248.	0.8	66
90	Alluvial gold in Kalimantan, Indonesia: A colloidal origin?. Journal of Geochemical Exploration, 1994, 50, 457-478.	1.5	15

#	Article	IF	Citations
91	Experimental Determination of Spring Constants in Atomic Force Microscopy. Langmuir, 1994, 10, 1003-1004.	1.6	189
92	Atomic Force Microscopy: Imaging with Electrical Double Layer Interactions. Langmuir, 1994, 10, 358-362.	1.6	141
93	Adsorption of the poly(oxyethylene) nonionic surfactant C12E5 to silica: a study using atomic force microscopy. Langmuir, 1993, 9, 412-418.	1.6	143
94	Charge reversal seen in electrical double layer interaction of surfaces immersed in 2:1 calcium electrolyte. Journal of Chemical Physics, 1993, 99, 6098-6113.	1.2	186
95	Measurement of surface roughness in buried channel waveguides. Electronics Letters, 1992, 28, 1321.	0.5	38
96	Surface roughness of plasma-treated mica. Langmuir, 1992, 8, 733-735.	1.6	20
97	Measurement of forces in liquids using a force microscope. Langmuir, 1992, 8, 1831-1836.	1.6	1,040
98	Direct measurement of colloidal forces using an atomic force microscope. Nature, 1991, 353, 239-241.	13.7	1,912