

Felix Beckmann

List of Publications by Year in descending order

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172
papers

5,367
citations

109321

35
h-index

98798

67
g-index

177
all docs

177
docs citations

177
times ranked

5754
citing authors

#	ARTICLE	IF	CITATIONS
1	In vitro and in vivo corrosion measurements of magnesium alloys. <i>Biomaterials</i> , 2006, 27, 1013-1018.	11.4	1,234
2	The morphology of anisotropic 3D-printed hydroxyapatite scaffolds. <i>Biomaterials</i> , 2008, 29, 3799-3806.	11.4	190
3	3D computed X-ray tomography of human cancellous bone at 8 μm spatial and 10 μeV energy resolution. <i>Bone and Mineral</i> , 1994, 25, 25-38.	1.9	178
4	The High Energy Materials Science Beamline (HEMS) at PETRA III. <i>Materials Science Forum</i> , 0, 772, 57-61.	0.3	169
5	X-Ray Microtomography (μCT) Using Phase Contrast for the Investigation of Organic Matter. <i>Journal of Computer Assisted Tomography</i> , 1997, 21, 539-553.	0.9	154
6	High-resolution tomographic imaging of a human cerebellum: comparison of absorption and grating-based phase contrast. <i>Journal of the Royal Society Interface</i> , 2010, 7, 1665-1676.	3.4	149
7	Morphological and molecular evidence converge upon a robust phylogeny of the megadiverse Holometabola. <i>Cladistics</i> , 2011, 27, 341-355.	3.3	123
8	Micro-CT at the imaging beamline P05 at PETRA III. <i>AIP Conference Proceedings</i> , 2016, , .	0.4	108
9	Morphological characterization and in vitro biocompatibility of a porous nickel-titanium alloy. <i>Biomaterials</i> , 2005, 26, 5801-5807.	11.4	100
10	Quantitative phase-contrast tomography of a liquid phantom using a conventional x-ray tube source. <i>Optics Express</i> , 2009, 17, 10010.	3.4	95
11	Osteoconductive modifications of Ti-implants in a goat defect model: characterization of bone growth with SR μCT and histology. <i>Biomaterials</i> , 2005, 26, 3009-3019.	11.4	93
12	Geometrically structured implants for cranial reconstruction made of biodegradable polyesters and calcium phosphate/calcium carbonate. <i>Biomaterials</i> , 2004, 25, 1239-1247.	11.4	91
13	Automated determination of the center of rotation in tomography data. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2006, 23, 1048.	1.5	88
14	Localization of soil organic matter in soil aggregates using synchrotron-based X-ray microtomography. <i>Soil Biology and Biochemistry</i> , 2014, 78, 189-194.	8.8	87
15	Catalysts at work: From integral to spatially resolved X-ray absorption spectroscopy. <i>Catalysis Today</i> , 2009, 145, 267-278.	4.4	85
16	The contractile sponge epithelium <i>sensu lato</i> body contraction of the demosponge <i>Tethya wilhelma</i> is mediated by the pinacoderm. <i>Journal of Experimental Biology</i> , 2011, 214, 1692-1698.	1.7	81
17	Bringing Dicynodonts Back to Life: Paleobiology and Anatomy of a New Emydopoid Genus from the Upper Permian of Mozambique. <i>PLoS ONE</i> , 2013, 8, e80974.	2.5	78
18	Hot tearing susceptibility of binary Mg-Y alloy castings. <i>Materials & Design</i> , 2013, 47, 90-100.	5.1	76

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19	Non-destructive three-dimensional evaluation of a polymer sponge by micro-tomography using synchrotron radiation. <i>New Biotechnology</i> , 2002, 19, 73-78.	2.7	73
20	Revival of Palaeopteraâ€™ head characters support a monophyletic origin of Odonata and Ephemeroptera (Insecta). <i>Cladistics</i> , 2012, 28, 560-581.	3.3	71
21	Procedural influences on compression and injection moulded cellulose fibre-reinforced polylactide (PLA) composites: Influence of fibre loading, fibre length, fibre orientation and voids. <i>Composites Part A: Applied Science and Manufacturing</i> , 2016, 81, 158-171.	7.6	66
22	Complementary X-ray tomography techniques for histology-validated 3D imaging of soft and hard tissues using plaque-containing blood vessels as examples. <i>Nature Protocols</i> , 2014, 9, 1401-1415.	12.0	55
23	High density resolution in synchrotron-radiation-based attenuation-contrast microtomography. <i>Proceedings of SPIE</i> , 2008, , .	0.8	53
24	Reconstructing the anatomy of the 42-million-year-old fossil â€™Mengea tertiaria (Insecta, Strepsiptera). <i>Die Naturwissenschaften</i> , 2010, 97, 855-859.	1.6	51
25	Opportunities and challenges for digital morphology. <i>Biology Direct</i> , 2010, 5, 45.	4.6	51
26	Comparison between x-ray tube-based and synchrotron radiation-based 1/4CT. <i>Proceedings of SPIE</i> , 2008, , .	0.8	46
27	Morphology of bony tissues and implants uncovered by high-resolution tomographic imaging. <i>International Journal of Materials Research</i> , 2007, 98, 613-621.	0.3	44
28	Behavior of scaled-up sodium alanate hydrogen storage tanks during sorption. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 2807-2811.	7.1	44
29	The head of <i>Merope tuber</i> (Meropeidae) and the phylogeny of Mecoptera (Hexapoda). <i>Arthropod Structure and Development</i> , 2013, 42, 69-88.	1.4	44
30	<title>New developments in attenuation and phase-contrast microtomography using synchrotron radiation with low and high photon energies</title>. , 1999, 3772, 179.		43
31	Experimental and numerical analysis of hot tearing susceptibility for Mgâ€™Y alloys. <i>Journal of Materials Science</i> , 2014, 49, 353-362.	3.7	42
32	Combined use of micro computed tomography and histology to evaluate the regenerative capacity of bone grafting materials. <i>International Journal of Materials Research</i> , 2014, 105, 679-691.	0.3	42
33	Functional morphology of <i>Tethya</i> species (Porifera): 1. Quantitative 3D-analysis of <i>Tethya wilhelma</i> by synchrotron radiation based X-ray microtomography. <i>Zoomorphology</i> , 2006, 125, 209-223.	0.8	41
34	Hot Tearing Characteristics of Binary Mg-Gd Alloy Castings. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2013, 44, 2285-2298.	2.2	41
35	Multiple-beam X-ray interferometry for phase-contrast microtomography. <i>Journal of Synchrotron Radiation</i> , 2001, 8, 1-5.	2.4	39
36	Calcium sulfate hemihydrate is the inorganic mineral in statoliths of Scyphozoan medusae (Cnidaria). <i>Dalton Transactions</i> , 2005, , 1545-1550.	3.3	39

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37	Effect of Zn addition on hot tearing behaviour of Mg ^{0.5} Ca ^x Zn alloys. <i>Materials and Design</i> , 2015, 87, 157-170.	7.0	39
38	An updated phylogeny of <i>A</i> nisoptera including formal convergence analysis of morphological characters. <i>Systematic Entomology</i> , 2013, 38, 474-490.	3.9	38
39	Histology and synchrotron radiation-based microtomography of the inner ear in a molecularly confirmed case of CHARGE syndrome. <i>American Journal of Medical Genetics, Part A</i> , 2010, 152A, 665-673.	1.2	34
40	Cathepsin K deficiency partially inhibits, but does not prevent, bone destruction in human tumor necrosis factor-transgenic mice. <i>Arthritis and Rheumatism</i> , 2008, 58, 422-434.	6.7	33
41	P05 imaging beamline at PETRA III: first results. <i>Proceedings of SPIE</i> , 2014, , .	0.8	33
42	Nondestructive three-dimensional evaluation of biocompatible materials by microtomography using synchrotron radiation. , 2002, , .		31
43	Synchrotron X-Ray microtomography reveals interior microstructure of multicomponent food materials such as chocolate. <i>Journal of Food Engineering</i> , 2016, 174, 37-46.	5.2	31
44	Nanostructure of carious tooth enamel lesion. <i>Acta Biomaterialia</i> , 2014, 10, 355-364.	8.3	30
45	Is solid always best? Cranial performance in solid and fenestrated caecilian skulls. <i>Journal of Experimental Biology</i> , 2012, 215, 833-844.	1.7	29
46	Strain fields in histological slices of brain tissue determined by synchrotron radiation-based micro computed tomography. <i>Journal of Neuroscience Methods</i> , 2008, 170, 149-155.	2.5	28
47	Hot tearing characteristics of Mg ² Ca ^x Zn alloys. <i>Journal of Materials Science</i> , 2016, 51, 2687-2704.	3.7	28
48	Quantitative characterization of degradation processes in situ by means of a bioreactor coupled flow chamber under physiological conditions using time-lapse SR-μCT. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2018, 69, 298-306.	1.5	28
49	Application of synchrotron-radiation-based computer microtomography (SR-μCT) to selected biominerals: embryonic snails, statoliths of medusae, and human teeth. <i>Journal of Biological Inorganic Chemistry</i> , 2005, 10, 688-695.	2.6	27
50	The High Energy Materials Science Beamline (HEMS) at PETRA III. , 2010, , .		26
51	Characterization of Hydrogen Storage Materials and Systems with Photons and Neutrons. <i>Advanced Engineering Materials</i> , 2011, 13, 730-736.	3.5	25
52	Tomography studies of human foreskin fibroblasts on polymer yarns. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2003, 200, 397-405.	1.4	24
53	Combining micro computed tomography and three-dimensional registration to evaluate local strains in shape memory scaffolds. <i>Acta Biomaterialia</i> , 2014, 10, 1024-1034.	8.3	24
54	Skeletal deformations in medaka (<i>Oryzias latipes</i>) visualized by synchrotron radiation micro-computer tomography (SR-μCT). <i>Journal of Structural Biology</i> , 2007, 160, 236-240.	2.8	23

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55	Tilting the jaw to improve the image quality or to reduce the dose in cone-beam computed tomography. <i>European Journal of Radiology</i> , 2011, 80, e389-e393.	2.6	23
56	X-ray grating interferometer for materials-science imaging at a low-coherent wiggler source. <i>Review of Scientific Instruments</i> , 2011, 82, 113711.	1.3	23
57	Hot Tearing Susceptibility of Mg-Ca Binary Alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015, 46, 6003-6017.	2.2	23
58	Blood vessel staining in the myocardium for 3D visualization down to the smallest capillaries. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2006, 246, 254-261.	1.4	22
59	Sponge budding is a spatiotemporal morphological patterning process: Insights from synchrotron radiation-based x-ray microtomography into the asexual reproduction of <i>Tethya wilhelma</i> . <i>Frontiers in Zoology</i> , 2009, 6, 19.	2.0	22
60	The head anatomy of <i>Epiophlebia superstes</i> (Odonata: Epiophlebiidae). <i>Organisms Diversity and Evolution</i> , 2013, 13, 55-66.	1.6	21
61	Using synchrotron radiation-based micro-computer tomography (SR μ -CT) for the measurement of fibre orientations in cellulose fibre-reinforced polylactide (PLA) composites. <i>Journal of Materials Science</i> , 2014, 49, 450-460.	3.7	20
62	<i>In Vitro</i> Model of the Gram-Negative Bacterial Cell Envelope for Investigation of Anti-Infective Permeation Kinetics. <i>ACS Infectious Diseases</i> , 2018, 4, 1188-1196.	3.8	20
63	The High Energy Materials Science Beamline at PETRA III. <i>Materials Science Forum</i> , 2008, 571-572, 261-266.	0.3	19
64	Functional morphology of <i>Tethya</i> species (Porifera): 2. Three-dimensional morphometrics on spicules and skeleton superstructures of <i>T. minuta</i> . <i>Zoomorphology</i> , 2006, 125, 225-239.	0.8	17
65	Embryonic shell formation in the snail <i>Biomphalaria glabrata</i> : a comparison between scanning electron microscopy (SEM) and synchrotron radiation micro computer tomography (SR μ CT). <i>Journal of Molluscan Studies</i> , 2008, 74, 19-26.	1.2	17
66	Phase-contrast x-ray tomography using synchrotron radiation. , 1997, , .		16
67	High-resolution and sensitivity bi-directional x-ray phase contrast imaging using 2D Talbot array illuminators. <i>Optica</i> , 2021, 8, 1588.	9.3	15
68	Microtomography using synchrotron radiation at DESY: current status and future developments. , 2004, , .		14
69	Characterization of polyurethane scaffolds using synchrotron radiation based computed microtomography. , 2004, , .		14
70	The male postabdomen and genital apparatus of <i>Mengea tertiaria</i> , a strepsipteran amber fossil (Insecta). <i>Journal of Zoological Systematics and Evolutionary Research</i> , 2011, 49, 298-308.	1.4	14
71	Microtomography using synchrotron radiation as a user experiment at beamlines BW2 and BW5 of HASYLAB at DESY. , 2002, , .		13
72	The non-hierarchical, non-uniformly branching topology of a leuconoid sponge aquiferous system revealed by 3D reconstruction and morphometrics using corrosion casting and X-ray microtomography. <i>Acta Zoologica</i> , 2012, 93, 160-170.	0.8	13

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73	Cracks in dentin and enamel after cryopreservation. Oral Surgery, Oral Medicine, Oral Pathology and Oral Radiology, 2012, 113, e5-e10.	0.4	13
74	Applying x-ray tomography in the field of vertebrate biology: form, function, and evolution of the skull of caecilians (Lissamphibia: Gymnophiona). , 2008, , .		12
75	Assessing the morphology of selective laser melted NiTi-scaffolds for a three-dimensional quantification of the one-way shape memory effect. , 2013, , .		12
76	Sensitivity comparison of absorption and grating-based phase tomography of paraffin-embedded human brain tissue. Applied Physics Letters, 2019, 114, .	3.3	12
77	Microtomography of magnesium implants in bone and their degradation. , 2006, 6318, 35.		10
78	The New Materials Science Beamline HARWI-II at DESY. AIP Conference Proceedings, 2007, , .	0.4	10
79	Comparative micro computed tomography study of a vertebral body. Proceedings of SPIE, 2008, , .	0.8	10
80	Bio-inspired dental fillings. Proceedings of SPIE, 2009, , .	0.8	10
81	Morphology of urethral tissues. Proceedings of SPIE, 2010, , .	0.8	10
82	Characterization of the CCD and CMOS cameras for grating-based phase-contrast tomography. Proceedings of SPIE, 2014, , .	0.8	10
83	Non-sexual abdominal appendages in adult insects challenge a 300 million year old bauplan. Current Biology, 2014, 24, R16-R17.	3.9	10
84	The larval head anatomy of <i>Rhyacophila</i> (Rhyacophilidae) with discussion on mouthpart homology and the groundplan of Trichoptera. Journal of Morphology, 2015, 276, 1505-1524.	1.2	10
85	Mineral in skeletal elements of the terrestrial crustacean Porcellio scaber: SR μ CT of function related distribution and changes during the moult cycle. Arthropod Structure and Development, 2017, 46, 63-76.	1.4	10
86	Tomography using monochromatic thermal neutrons with attenuation and phase contrast. , 2002, 4503, 359.		9
87	The New GKSS Materials Science Beamlines at DESY: Recent Results and Future Options. Materials Science Forum, 2010, 638-642, 2470-2475.	0.3	9
88	Anatomy, function, and evolution of jaw and hyobranchial muscles in cryptobranchoid salamander larvae. Journal of Morphology, 2014, 275, 230-246.	1.2	9
89	Determination of the packing fraction in photonic glass using synchrotron radiation nanotomography. Journal of Synchrotron Radiation, 2016, 23, 1440-1446.	2.4	9
90	20 Hz synchrotron X-ray diffraction analysis in laser-pulsed WC-Co hard metal reveals oscillatory stresses and reversible composite plastification. International Journal of Refractory Metals and Hard Materials, 2019, 82, 121-128.	3.8	9

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91	Osteonal mineralization patterns in cortical bone studied by synchrotron-radiation-based computed microtomography and scanning acoustic microscopy. , 2004, 5535, 143.		8
92	Synchrotron-µCT microcomputed tomography studies of normal and pathological cranial sutures: further insight. Journal of Neurosurgery: Pediatrics, 2010, 5, 238-242.	1.3	8
93	Electrochemical Surface Structuring for Strong SMA Wire-Polymer Interface Adhesion. ACS Applied Materials & Interfaces, 2021, 13, 21924-21935.	8.0	8
94	HARWI-II, The New High-Energy Beamline for Materials Science at HASYLAB/DESY. AIP Conference Proceedings, 2004, , .	0.4	7
95	The cochlea in fetuses with neural tube defects. International Journal of Developmental Neuroscience, 2009, 27, 669-676.	1.6	7
96	Pelizaeus Merzbacher disease: morphological analysis of the vestibulo-cochlear system. Acta Oto-Laryngologica, 2009, 129, 1395-1399.	0.9	7
97	Hot Tearing Susceptibility of Magnesium-Gadolinium Binary Alloys. Transactions of the Indian Institute of Metals, 2012, 65, 701-706.	1.5	7
98	High density resolution synchrotron radiation based x-ray microtomography (SR μ CT) for quantitative 3D-morphometrics in zoological sciences. , 2008, , .		6
99	Three-dimensional analysis of MMC microstructure and deformation by μ CT and FE simulations. , 2008, , .		6
100	Bio-mimetic hollow scaffolds for long bone replacement. Proceedings of SPIE, 2009, , .	0.8	6
101	X-ray grating interferometer for imaging at a second-generation synchrotron radiation source. Proceedings of SPIE, 2010, , .	0.8	6
102	Impact of 3D-model thickness on FE-simulations of microstructure. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 802-811.	5.6	6
103	Morphology of atherosclerotic coronary arteries. Proceedings of SPIE, 2012, , .	0.8	6
104	The female cloaca of an oviparous caecilian amphibian (Gymnophiona): functional and seasonal aspects. Acta Zoologica, 2012, 93, 208-221.	0.8	6
105	Ex vivo evaluation of an atherosclerotic human coronary artery via histology and high-resolution hard X-ray tomography. Scientific Reports, 2019, 9, 14348.	3.3	6
106	Three-dimensional morphology and mechanics of bone scaffolds fabricated by rapid prototyping. International Journal of Materials Research, 2012, 103, 200-206.	0.3	6
107	A load frame for in situ tomography at PETRA III. , 2019, , .		6
108	3D characterisation of hydrogen environmentally assisted cracking during static loading of AA7449-T7651. International Journal of Fracture, 2021, 232, 93-116.	2.2	6

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109	Tomographic analysis and FE-simulations of MMC-microstructures under load. , 2006, 6318, 395.		5
110	First Results of the DITO-Experiment at the HARWI II Beamline at GKSS/DESY. Materials Science Forum, 2008, 571-572, 201-206.	0.3	5
111	Dinosaur and Crocodile Fossils from the Mesozoic of Portugal: Neutron Tomography and Synchrotron-Radiation Based Micro-Computed Tomography. Materials Research Society Symposia Proceedings, 2011, 1319, 1.	0.1	5
112	Grating-based tomography of human tissues. AIP Conference Proceedings, 2012, , .	0.4	5
113	Visualization of Implant Failure by Synchrotron Tomography. Minerals, Metals and Materials Series, 2018, , 275-284.	0.4	5
114	3D analysis of bone formation around titanium implants using micro computed tomography (μ CT). , 2006, , .		4
115	Quality assessment of clinical computed tomography. Proceedings of SPIE, 2008, , .	0.8	4
116	Comparative study of desktop- and synchrotron radiation-based micro computed tomography analyzing cell-seeded scaffolds in tissue engineering of bone. , 2008, , .		4
117	Comparing the micro-vascular structure of cancerous and healthy tissues. Proceedings of SPIE, 2012, , .	0.8	4
118	Combined micro computed tomography and histology study of bone augmentation and distraction osteogenesis. , 2012, , .		4
119	Absorption and Phase Contrast X-Ray Imaging in Paleontology Using Laboratory and Synchrotron Sources. Microscopy and Microanalysis, 2015, 21, 1288-1295.	0.4	4
120	Using SR μ CT to define water transport capacity in Picea abies. , 2017, , .		4
121	The NOVA project: maximizing beam time efficiency through synergistic analyses of SR μ CT data. , 2017, , .		4
122	Comparison of conventional and synchrotron-radiation-based microtomography of bone around dental implants. , 2004, , .		3
123	Analysis of the material behavior of metal-matrix composites under tension by synchrotron radiation-based microtomography and FE calculations. , 2004, , .		3
124	Image metrics for the automated alignment of microtomography data. , 2006, , .		3
125	Internal structures of scaffold-free 3D cell cultures visualized by synchrotron radiation-based micro-computed tomography. , 2008, , .		3
126	Synchrotron radiation-based micro computed tomography in the assessment of dentin de- and re-mineralization. , 2008, , .		3

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127	Computed tomography to quantify tooth abrasion. Proceedings of SPIE, 2010, , .	0.8	3
128	Grating interferometry-based phase microtomography of atherosclerotic human arteries. Proceedings of SPIE, 2014, , .	0.8	3
129	Integrated control system environment for high-throughput tomography. , 2014, , .		3
130	Advancing the visualization of pure water transport in porous materials by fast, talbot interferometry-based multi-contrast x-ray micro-tomography. , 2016, , .		3
131	Analytical registration of vertical image drifts in parallel beam tomographic data. Optics Letters, 2017, 42, 4982.	3.3	3
132	Phenomenological analysis of constrained in-plane compression of paperboard using micro-computed tomography Imaging. Nordic Pulp and Paper Research Journal, 2021, 36, 491-502.	0.7	3
133	Using In-situ Synchrotron-Radiation-Based Microtomography to Investigate 3D Structure-Dependent Material Properties of Tension Wood. Advanced Engineering Materials, 0, , 2100235.	3.5	3
134	Evaluation of the degradation behavior of resorbable metal implants for in vivo osteosynthesis by synchrotron radiation based x-ray tomography and histology. Proceedings of SPIE, 2016, , .	0.8	3
135	Biodegradable magnesium-based implants in bone studied by synchrotron radiation microtomography. , 2017, , .		3
136	Integrated control system environment for high-throughput tomography. , 2017, , .		3
137	Structural characterization of aluminium foams by means of microcomputed tomography. , 2004, 5535, 453.		2
138	Microtomography of the human tooth-alveolar bone complex. , 2006, , .		2
139	The interior of soil aggregates investigated by synchrotron-radiation-based microtomography. Proceedings of SPIE, 2008, , .	0.8	2
140	Grain Tracking at the High Energy Materials Science Beamline of the Petra III Synchrotron Radiation Source. Materials Science Forum, 0, 652, 70-73.	0.3	2
141	Evaluation of oral scanning in comparison to impression using three-dimensional registration. Proceedings of SPIE, 2012, , .	0.8	2
142	Characterization of a human tooth with carious lesions using conventional and synchrotron radiation-based micro computed tomography. Proceedings of SPIE, 2014, , .	0.8	2
143	Assessing the grain structure of highly X-ray absorbing metallic alloys. International Journal of Materials Research, 2014, 105, 692-701.	0.3	2
144	Magnesium degradation observed in situ under flow by synchrotron radiation based microtomography. , 2016, , .		2

#	ARTICLE	IF	CITATIONS
145	Synchrotron radiation-based phase-contrast microtomography of human dental calculus allows nondestructive analysis of inclusions: implications for archeological samples. <i>Journal of Medical Imaging</i> , 2022, 9, 031505.	1.5	2
146	Combining High-Resolution Hard X-ray Tomography and Histology for Stem Cell-Mediated Distraction Osteogenesis. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 6286.	2.5	2
147	High-energy microtomography using synchrotron radiation. , 2000, 4142, 225.		1
148	Microtomography of the human middle and inner ear. , 2002, , .		1
149	Internal channel structures in trabecular bone. , 2004, 5535, 792.		1
150	Measurement of the components of plastic displacement gradients in three dimensions. , 2004, , .		1
151	The microstructure of mandibular bone grafts and three-dimensional cell clusters. , 2010, , .		1
152	Analysis of wood microstructure by synchrotron radiation-based x-ray microtomography (SR μ CT). , 2012, , .		1
153	Three-dimensional registration of synchrotron radiation-based micro-computed tomography images with advanced laboratory micro-computed tomography data from murine kidney casts. , 2014, , .		1
154	X-ray microscopy of soft and hard human tissues. <i>AIP Conference Proceedings</i> , 2016, , .	0.4	1
155	50 Hz X-ray Diffraction Stress Analysis and Numerical Process Simulation at Laser Surface Line Hardening of Web Structures. <i>Advanced Engineering Materials</i> , 0, , 2100119.	3.5	1
156	Brilliant light for materials science: Industrial applications of the high energy microtomography at beamline HEMS/P07 at PETRA III. , 2021, , .		1
157	Renal calculi composition studies with the use of microtomography. <i>Urologia Polska</i> , 2010, 63, 87-90.	0.5	1
158	Oversampling w tomografii komputerowej jako metoda poprawy osiowej zdolnoÅci rozdzielczej zastosowany w badaniach struktury koÅci.. <i>Polski Przegląd Radiologii I Medycyny Nuklearnej</i> , 2012, 77, 14-18.	1.0	1
159	Optimization of high-energy microtomography using synchrotron radiation at PETRA III. , 2019, , .		1
160	Visualizing the root-PDL-bone interface using high-resolution microtomography. , 2008, , .		0
161	X-Ray Imaging with Phase Contrast. , 2010, , .		0
162	<i>In Situ</i> Studies of Light Metals with Synchrotron Radiation and Neutrons. <i>Materials Science Forum</i> , 2011, 690, 192-197.	0.3	0

#	ARTICLE	IF	CITATIONS
163	New techniques for high pressure falling sphere viscosimetry in DIA-type large volume presses. High Pressure Research, 2014, 34, 345-354.	1.2	0
164	Tumors in murine brains studied by grating-based phase contrast microtomography. , 2014, , .		0
165	Applied x-ray computed tomography with high resolution in paleontology using laboratory and synchrotron sources. , 2014, , .		0
166	Histology-validated x-ray tomography for imaging human coronary arteries. Proceedings of SPIE, 2016, , .	0.8	0
167	Synchrotron x-ray microtomography of the interior microstructure of chocolate. Proceedings of SPIE, 2016, , .	0.8	0
168	Imaging tissues for biomedical research using the high-resolution micro-tomography system nanotom ^Å m. Proceedings of SPIE, 2016, , .	0.8	0
169	Simulation framework SYRIS tested for microtomography applications at the imaging beamline P05/PETRA III. AIP Conference Proceedings, 2019, , .	0.4	0
170	Multi-scale microtomography using synchrotron radiation at beamlines P05/PETRA III and P07/PETRA III. , 2021, , .		0
171	High-resolution grating interferometer for phase-contrast imaging at PETRA III. , 2017, , .		0
172	In Situ Synchrotron X-Ray Diffraction Stress Analysis During Laser Surface Line Hardening of Samples with Specific Geometric Features. Minerals, Metals and Materials Series, 2020, , 2127-2138.	0.4	0