Felix Beckmann

List of Publications by Year
in descending order

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	Synchrotron radiation-based phase-contrast microtomography of human dental calculus allows nondestructive analysis of inclusions: implications for archeological samples. Journal of Medical Imaging, 2022, 9, 031505.	1.5	2
2	Combining High-Resolution Hard X-ray Tomography and Histology for Stem Cell-Mediated Distraction Osteogenesis. Applied Sciences (Switzerland), 2022, 12, 6286.	2.5	2
3	Electrochemical Surface Structuring for Strong SMA Wireâ€“Polymer Interface Adhesion. ACS Applied Materials & Interfaces, 2021, 13, 21924-21935.	8.0	8
4	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
5	Brilliant light for materials science: Industrial applications of the high energy microtomography at beamline HEMS/P07 at PETRA III. , 2021, , .		1
6	Multi-scale microtomography using synchrotron radiation at beamlines P05/PETRA III and P07/PETRA III. , 2021, , .		0
7	3D characterisation of hydrogen environmentally assisted cracking during static loading of AA7449-T7651. International Journal of Fracture, 2021, 232, 93-116.	2.2	6
8	High-resolution and sensitivity bi-directional x-ray phase contrast imaging using 2D Talbot array illuminators. Optica, 2021, 8, 1588.	9.3	15
9	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
10	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
11	Sensitivity comparison of absorption and grating-based phase tomography of paraffin-embedded human brain tissue. Applied Physics Letters, 2019, 114, .	3.3	12
12	Simulation framework SYRIS tested for microtomography applications at the imaging beamline P05/PETRA III. AIP Conference Proceedings, 2019, , .	0.4	0
13	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
14	A load frame for in situ tomography at PETRA III. , 2019, , .		6
15	Optimization of high-energy microtomography using synchrotron radiation at PETRA III. , 2019, , .		1
16	Quantitative characterization of degradation processes in situ by means of a bioreactor coupled flow chamber under physiological conditions using timeâ€lapse SRÂµCT. Materials and Corrosion - Werkstoffe Und Korrosion, 2018, 69, 298-306.	1.5	28
17	Visualization of Implant Failure by Synchrotron Tomography. Minerals, Metals and Materials Series, 2018, , 275-284.	0.4	5
18	In Vitro Model of the Gram-Negative Bacterial Cell Envelope for Investigation of Anti-Infective Permeation Kinetics. ACS Infectious Diseases, 2018, 4, 1188-1196.	3.8	20

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19	Mineral in skeletal elements of the terrestrial crustacean Porcellio scaber: SRÎ¼CT of function related distribution and changes during the moult cycle. Arthropod Structure and Development, 2017, 46, 63-76.	1.4	10
20	Analytical registration of vertical image drifts in parallel beam tomographic data. Optics Letters, 2017, 42, 4982.	3.3	3
21	Using SRuCT to define water transport capacity in Picea abies. , 2017, , .		4
22	The NOVA project: maximizing beam time efficiency through synergistic analyses of SRÎ¼CT data. , 2017, , .		4
23	Biodegradable magnesium-based implants in bone studied by synchrotron radiation microtomography. , 2017, , .		3
24	High-resolution grating interferometer for phase-contrast imaging at PETRA III. , 2017, , .		0
25	Integrated control system environment for high-throughput tomography. , 2017, , .		3
26	X-ray microscopy of soft and hard human tissues. AIP Conference Proceedings, 2016, , .	0.4	1
27	Determination of the packing fraction in photonic glass using synchrotron radiation nanotomography. Journal of Synchrotron Radiation, 2016, 23, 1440-1446.	2.4	9
28	Micro-CT at the imaging beamline P05 at PETRA III. AIP Conference Proceedings, 2016, , .	0.4	108
29	Histology-validated x-ray tomography for imaging human coronary arteries. Proceedings of SPIE, 2016, , .	0.8	0
30	Synchrotron x-ray microtomography of the interior microstructure of chocolate. Proceedings of SPIE, 2016, , .	0.8	0
31	Advancing the visualization of pure water transport in porous materials by fast, talbot interferometry-based multi-contrast x-ray micro-tomography. , 2016, , .		3
32	Imaging tissues for biomedical research using the high-resolution micro-tomography system nanotomÂ® m. Proceedings of SPIE, 2016, , .	0.8	0
33	Magnesium degradation observed in situ under flow by synchrotron radiation based microtomography. , 2016, , .		2
34	Procedural influences on compression and injection moulded cellulose fibre-reinforced polylactide (PLA) composites: Influence of fibre loading, fibre length, fibre orientation and voids. Composites Part A: Applied Science and Manufacturing, 2016, 81, 158-171.	7.6	66
35	Hot tearing characteristics of Mgâ€“2Caâ€“xZn alloys. Journal of Materials Science, 2016, 51, 2687-2704.	3.7	28
36	Synchrotron X-Ray microtomography reveals interior microstructure of multicomponent food materials such as chocolate. Journal of Food Engineering, 2016, 174, 37-46.	5.2	31

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37	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
38	Absorption and Phase Contrast X-Ray Imaging in Paleontology Using Laboratory and Synchrotron Sources. Microscopy and Microanalysis, 2015, 21, 1288-1295.	0.4	4
39	The larval head anatomy of <scp>R</scp>hyacophila (Rhyacophilidae) with discussion on mouthpart homology and the groundplan of Trichoptera. Journal of Morphology, 2015, 276, 1505-1524.	1.2	10
40	Effect of Zn addition on hot tearing behaviour of Mgâ€“0.5Caâ€“xZn alloys. Materials and Design, 2015, 87, 157-170.	7.0	39
41	Hot Tearing Susceptibility of Mg-Ca Binary Alloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2015, 46, 6003-6017.	2.2	23
42	New techniques for high pressure falling sphere viscosimetry in DIA-type large volume presses. High Pressure Research, 2014, 34, 345-354.	1.2	0
43	Characterization of a human tooth with carious lesions using conventional and synchrotron radiation-based micro computed tomography. Proceedings of SPIE, 2014, , .	0.8	2
44	Grating interferometry-based phase microtomography of atherosclerotic human arteries. Proceedings of SPIE, 2014, , .	0.8	3
45	Integrated control system environment for high-throughput tomography. , 2014, , .		3
46	P05 imaging beamline at PETRA III: first results. Proceedings of SPIE, 2014, , .	0.8	33
47	Tumors in murine brains studied by grating-based phase contrast microtomography. , 2014, , .		0
48	Three-dimensional registration of synchrotron radiation-based micro-computed tomography images with advanced laboratory micro-computed tomography data from murine kidney casts. , 2014, , .		1
49	Assessing the grain structure of highly X-ray absorbing metallic alloys. International Journal of Materials Research, 2014, 105, 692-701.	0.3	2
50	Anatomy, function, and evolution of jaw and hyobranchial muscles in cryptobranchoid salamander larvae. Journal of Morphology, 2014, 275, 230-246.	1.2	9
51	Applied x-ray computed tomography with high resolution in paleontology using laboratory and synchrotron sources. , 2014, , .		0
52	Characterization of the CCD and CMOS cameras for grating-based phase-contrast tomography. Proceedings of SPIE, 2014, , .	0.8	10
53	Combining micro computed tomography and three-dimensional registration to evaluate local strains in shape memory scaffolds. Acta Biomaterialia, 2014, 10, 1024-1034.	8.3	24
54	Using synchroton radiation-based micro-computer tomography (SR Î¼-CT) for the measurement of fibre orientations in cellulose fibre-reinforced polylactide (PLA) composites. Journal of Materials Science, 2014, 49, 450-460.	3.7	20

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55	Experimental and numerical analysis of hot tearing susceptibility for Mgâ€“Y alloys. Journal of Materials Science, 2014, 49, 353-362.	3.7	42
56	Nanostructure of carious tooth enamel lesion. Acta Biomaterialia, 2014, 10, 355-364.	8.3	30
57	Non-sexual abdominal appendages in adult insects challenge a 300 million year old bauplan. Current Biology, 2014, 24, R16-R17.	3.9	10
58	Complementary X-ray tomography techniques for histology-validated 3D imaging of soft and hard tissues using plaque-containing blood vessels as examples. Nature Protocols, 2014, 9, 1401-1415.	12.0	55
59	Localization of soil organic matter in soil aggregates using synchrotron-based X-ray microtomography. Soil Biology and Biochemistry, 2014, 78, 189-194.	8.8	87
60	Combined use of micro computed tomography and histology to evaluate the regenerative capacity of bone grafting materials. International Journal of Materials Research, 2014, 105, 679-691.	0.3	42
61	Hot Tearing Characteristics of Binary Mg-Gd Alloy Castings. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2013, 44, 2285-2298.	2.2	41
62	Hot tearing susceptibility of binary Mgâ€“Y alloy castings. Materials & Design, 2013, 47, 90-100.	5.1	76
63	The head of Merope tuber (Meropeidae) and the phylogeny of Mecoptera (Hexapoda). Arthropod Structure and Development, 2013, 42, 69-88.	1.4	44
64	The head anatomy of Epiophlebia superstes (Odonata: Epiophlebiidae). Organisms Diversity and Evolution, 2013, 13, 55-66.	1.6	21
65	An updated phylogeny of <scp>A</scp>nisoptera including formal convergence analysis of morphological characters. Systematic Entomology, 2013, 38, 474-490.	3.9	38
66	Assessing the morphology of selective laser melted NiTi-scaffolds for a three-dimensional quantification of the one-way shape memory effect. , 2013, , .		12
67	Bringing Dicynodonts Back to Life: Paleobiology and Anatomy of a New Emydopoid Genus from the Upper Permian of Mozambique. PLoS ONE, 2013, 8, e80974.	2.5	78
68	Evaluation of oral scanning in comparison to impression using three-dimensional registration. Proceedings of SPIE, 2012, , .	0.8	2
69	Grating-based tomography of human tissues. AIP Conference Proceedings, 2012, , .	0.4	5
70	Is solid always best? Cranial performance in solid and fenestrated caecilian skulls. Journal of Experimental Biology, 2012, 215, 833-844.	1.7	29
71	Morphology of atherosclerotic coronary arteries. Proceedings of SPIE, 2012, , .	0.8	6
72	Analysis of wood microstructure by synchrotron radiation-based x-ray microtomography (SRÎ¼CT). , 2012, , .		1

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73	Comparing the micro-vascular structure of cancerous and healthy tissues. Proceedings of SPIE, 2012, , .	0.8	4
74	Combined micro computed tomography and histology study of bone augmentation and distraction osteogenesis. , 2012, , .		4
75	Hot Tearing Susceptibility of Magnesiumâ€“Gadolinium Binary Alloys. Transactions of the Indian Institute of Metals, 2012, 65, 701-706.	1.5	7
76	The nonâ€hierarchical, nonâ€uniformly branching topology of a leuconoid sponge aquiferous system revealed by 3D reconstruction and morphometrics using corrosion casting and Xâ€ray microtomography. Acta Zoologica, 2012, 93, 160-170.	0.8	13
77	Revival of Palaeopteraâ€”head characters support a monophyletic origin of Odonata and Ephemeroptera (Insecta). Cladistics, 2012, 28, 560-581.	3.3	71
78	Behavior of scaled-up sodium alanate hydrogen storage tanks during sorption. International Journal of Hydrogen Energy, 2012, 37, 2807-2811.	7.1	44
79	Cracks in dentin and enamel after cryopreservation. Oral Surgery, Oral Medicine, Oral Pathology and Oral Radiology, 2012, 113, e5-e10.	0.4	13
80	The female cloaca of an oviparous caecilian amphibian (Gymnophiona): functional and seasonal aspects. Acta Zoologica, 2012, 93, 208-221.	0.8	6
81	Three-dimensional morphology and mechanics of bone scaffolds fabricated by rapid prototyping. International Journal of Materials Research, 2012, 103, 200-206.	0.3	6
82	Oversampling w tomografii komputerowej jako metoda poprawy osiowej zdolnoÅ›ci rozdzielczej zastosowany w badaniach struktury koÅ›ci.. Polski Przeglad Radiologii I Medycyny Nuklearnej, 2012, 77, 14-18.	1.0	1
83	Tilting the jaw to improve the image quality or to reduce the dose in cone-beam computed tomography. European Journal of Radiology, 2011, 80, e389-e393.	2.6	23
84	The male postabdomen and genital apparatus of â€ Mengea tertiaria , a strepsipteran amber fossil (Insecta). Journal of Zoological Systematics and Evolutionary Research, 2011, 49, 298-308.	1.4	14
85	Morphological and molecular evidence converge upon a robust phylogeny of the megadiverse Holometabola. Cladistics, 2011, 27, 341-355.	3.3	123
86	X-ray grating interferometer for materials-science imaging at a low-coherent wiggler source. Review of Scientific Instruments, 2011, 82, 113711.	1.3	23
87	Characterization of Hydrogen Storage Materials and Systems with Photons and Neutrons. Advanced Engineering Materials, 2011, 13, 730-736.	3.5	25
88	In Situ Studies of Light Metals with Synchrotron Radiation and Neutrons. Materials Science Forum, 2011, 690, 192-197.	0.3	0
89	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
90	The contractile sponge epitheliumsensu latoâ€“ body contraction of the demospongeTethya wilhelmais mediated by the pinacoderm. Journal of Experimental Biology, 2011, 214, 1692-1698.	1.7	81

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91	The High Energy Materials Science Beamline (HEMS) at PETRA III. , 2010, , .		26
92	X-ray grating interferometer for imaging at a second-generation synchrotron radiation source. Proceedings of SPIE, 2010, , .	0.8	6
93	Reconstructing the anatomy of the 42-million-year-old fossil â€Mengea tertiaria (Insecta, Strepsiptera). Die Naturwissenschaften, 2010, 97, 855-859.	1.6	51
94	Opportunities and challenges for digital morphology. Biology Direct, 2010, 5, 45.	4.6	51
95	Histology and synchrotron radiationâ€based microtomography of the inner ear in a molecularly confirmed case of CHARGE syndrome. American Journal of Medical Genetics, Part A, 2010, 152A, 665-673.	1.2	34
96	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
97	The New GKSS Materials Science Beamlines at DESY: Recent Results and Future Options. Materials Science Forum, 2010, 638-642, 2470-2475.	0.3	9
98	X-Ray Imaging with Phase Contrast. , 2010, , .		0
99	Morphology of urethral tissues. Proceedings of SPIE, 2010, , .	0.8	10
100	The microstructure of mandibular bone grafts and three-dimensional cell clusters. , 2010, , .		1
101	Computed tomography to quantify tooth abrasion. Proceedings of SPIE, 2010, , .	0.8	3
102	Synchrotronâ€“microcomputed tomography studies of normal and pathological cranial sutures: further insight. Journal of Neurosurgery: Pediatrics, 2010, 5, 238-242.	1.3	8
103	High-resolution tomographic imaging of a human cerebellum: comparison of absorption and grating-based phase contrast. Journal of the Royal Society Interface, 2010, 7, 1665-1676.	3.4	149
104	Renal calculi composition studies with the use of microtomography. Urologia Polska, 2010, 63, 87-90.	0.5	1
105	Bio-inspired dental fillings. Proceedings of SPIE, 2009, , .	0.8	10
106	Bio-mimetic hollow scaffolds for long bone replacement. Proceedings of SPIE, 2009, , .	0.8	6
107	Sponge budding is a spatiotemporal morphological patterning process: Insights from synchrotron radiation-based x-ray microtomography into the asexual reproduction of Tethya wilhelma. Frontiers in Zoology, 2009, 6, 19.	2.0	22
108	Catalysts at work: From integral to spatially resolved X-ray absorption spectroscopy. Catalysis Today, 2009, 145, 267-278.	4.4	85

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109	The cochlea in fetuses with neural tube defects. International Journal of Developmental Neuroscience, 2009, 27, 669-676.	1.6	7
110	Quantitative phase-contrast tomography of a liquid phantom using a conventional x-ray tube source. Optics Express, 2009, 17, 10010.	3.4	95
111	Pelizaeus Merzbacher disease: morphological analysis of the vestibulo-cochlear system. Acta Oto-Laryngologica, 2009, 129, 1395-1399.	0.9	7
112	Strain fields in histological slices of brain tissue determined by synchrotron radiation-based micro computed tomography. Journal of Neuroscience Methods, 2008, 170, 149-155.	2.5	28
113	The morphology of anisotropic 3D-printed hydroxyapatite scaffolds. Biomaterials, 2008, 29, 3799-3806.	11.4	190
114	Cathepsin K deficiency partially inhibits, but does not prevent, bone destruction in human tumor necrosis factorâ€“transgenic mice. Arthritis and Rheumatism, 2008, 58, 422-434.	6.7	33
115	High density resolution synchrotron radiation based x-ray microtomography (SR Î¼CT) for quantitative 3D-morphometrics in zoological sciences. , 2008, , .		6
116	High density resolution in synchrotron-radiation-based attenuation-contrast microtomography. Proceedings of SPIE, 2008, , .	0.8	53
117	Visualizing the root-PDL-bone interface using high-resolution microtomography. , 2008, , .		0
118	Internal structures of scaffold-free 3D cell cultures visualized by synchrotron radiation-based micro-computed tomography. , 2008, , .		3
119	Three-dimensional analysis of MMC microstructure and deformation by Î¼CT and FE simulations. , 2008, , .		6
120	Synchrotron radiation-based micro computed tomography in the assessment of dentin de- and re-mineralization. , 2008, , .		3
121	The interior of soil aggregates investigated by synchrotron-radiation-based microtomography. Proceedings of SPIE, 2008, , .	0.8	2
122	Quality assessment of clinical computed tomography. Proceedings of SPIE, 2008, , .	0.8	4
123	Comparative study of desktop- and synchrotron radiation-based micro computed tomography analyzing cell-seeded scaffolds in tissue engineering of bone. , 2008, , .		4
124	Comparative micro computed tomography study of a vertebral body. Proceedings of SPIE, 2008, , .	0.8	10
125	Comparison between x-ray tube-based and synchrotron radiation-based Î¼CT. Proceedings of SPIE, 2008, , .	0.8	46
126	Embryonic shell formation in the snail Biomphalaria glabrata: a comparison between scanning electron microscopy (SEM) and synchrotron radiation micro computer tomography (SRÂµCT). Journal of Molluscan Studies, 2008, 74, 19-26.	1.2	17

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127	Applying x-ray tomography in the field of vertebrate biology: form, function, and evolution of the skull of caecilians (Lissamphibia: Gymnophiona). , 2008, , .		12
128	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
129	The High Energy Materials Science Beamline at PETRA III. Materials Science Forum, 2008, 571-572, 261-266.	0.3	19
130	The New Materials Science Beamline HARWI-II at DESY. AIP Conference Proceedings, 2007, , .	0.4	10
131	Morphology of bony tissues and implants uncovered by high-resolution tomographic imaging. International Journal of Materials Research, 2007, 98, 613-621.	0.3	44
132	Skeletal deformations in medaka (Oryzias latipes) visualized by synchrotron radiation micro-computer tomography (SRÎ¼CT). Journal of Structural Biology, 2007, 160, 236-240.	2.8	23
133	Microtomography of magnesium implants in bone and their degradation. , 2006, 6318, 35.		10
134	Automated determination of the center of rotation in tomography data. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2006, 23, 1048.	1.5	88
135	Image metrics for the automated alignment of microtomography data. , 2006, , .		3
136	3D analysis of bone formation around titanium implants using micro computed tomography (Î¼CT). , 2006, , .		4
137	Microtomography of the human tooth-alveolar bone complex. , 2006, , .		2
138	Blood vessel staining in the myocardium for 3D visualization down to the smallest capillaries. Nuclear Instruments & Methods in Physics Research B, 2006, 246, 254-261.	1.4	22
139	Functional morphology of Tethya species (Porifera): 1. Quantitative 3D-analysis of Tethya wilhelma by synchrotron radiation based X-ray microtomography. Zoomorphology, 2006, 125, 209-223.	0.8	41
140	Functional morphology of Tethya species (Porifera): 2. Three-dimensional morphometrics on spicules and skeleton superstructures of T. minuta. Zoomorphology, 2006, 125, 225-239.	0.8	17
141	In vitro and in vivo corrosion measurements of magnesium alloys. Biomaterials, 2006, 27, 1013-1018.	11.4	1,234
142	Tomographic analysis and FE-simulations of MMC-microstructures under load. , 2006, 6318, 395.		5
143	Osteoconductive modifications of Ti-implants in a goat defect model: characterization of bone growth with SR Î¼CT and histology. Biomaterials, 2005, 26, 3009-3019.	11.4	93
144	Morphological characterization and in vitro biocompatibility of a porous nickelâ€“titanium alloy. Biomaterials, 2005, 26, 5801-5807.	11.4	100

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145	Application of synchrotron-radiation-based computer microtomography (SRÎ¼CT) to selected biominerals: embryonic snails, statoliths of medusae, and human teeth. Journal of Biological Inorganic Chemistry, 2005, 10, 688-695.	2.6	27
146	Calcium sulfate hemihydrate is the inorganic mineral in statoliths of Scyphozoan medusae (Cnidaria). Dalton Transactions, 2005, , 1545-1550.	3.3	39
147	HARWI-II, The New High-Energy Beamline for Materials Science at HASYLAB/DESY. AIP Conference Proceedings, 2004, , .	0.4	7
148	Structural characterization of aluminium foams by means of microcomputed tomography. , 2004, 5535, 453.		2
149	Microtomography using synchrotron radiation at DESY: current status and future developments. , 2004, , .		14
150	Internal channel structures in trabecular bone. , 2004, 5535, 792.		1
151	Geometrically structured implants for cranial reconstruction made of biodegradable polyesters and calcium phosphate/calcium carbonate. Biomaterials, 2004, 25, 1239-1247.	11.4	91
152	Comparison of conventional and synchrotron-radiation-based microtomography of bone around dental implants. , 2004, , .		3
153	Characterization of polyurethane scaffolds using synchrotron radiation based computed microtomography. , 2004, , .		14
154	Measurement of the components of plastic displacement gradients in three dimensions. , 2004, , .		1
155	Osteonal mineralization patterns in cortical bone studied by synchrotron-radiation-based computed microtomography and scanning acoustic microscopy. , 2004, 5535, 143.		8
156	Analysis of the material behavior of metal-matrix composites under tension by synchrotron radiation-based microtomography and FE calculations. , 2004, , .		3
157	Tomography studies of human foreskin fibroblasts on polymer yarns. Nuclear Instruments & Methods in Physics Research B, 2003, 200, 397-405.	1.4	24
158	Nondestructive three-dimensional evaluation of biocompatible materials by microtomography using synchrotron radiation. , 2002, , .		31
159	Microtomography of the human middle and inner ear. , 2002, , .		1
160	Microtomography using synchrotron radiation as a user experiment at beamlines BW2 and BW5 of HASYLAB at DESY. , 2002, , .		13
161	Tomography using monochromatic thermal neutrons with attenuation and phase contrast. , 2002, 4503, 359.		9
162	Non-destructive three-dimensional evaluation of a polymer sponge by micro-tomography using synchrotron radiation. New Biotechnology, 2002, 19, 73-78.	2.7	73

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163	Multiple-beam X-ray interferometry for phase-contrast microtomography. Journal of Synchrotron Radiation, 2001, 8, 1-5.	2.4	39
164	High-energy microtomography using synchrotron radiation. , 2000, 4142, 225.		1
165	‹title›New developments in attenuation and phase-contrast microtomography using synchrotron radiation with low and high photon energies‹/title›. , 1999, 3772, 179.		43
166	‹title›Phase-contrast x-ray tomography using synchrotron radiation‹/title›. , 1997, , .		16
167	X-Ray Microtomography (Î¼CT) Using Phase Contrast for the Investigation of Organic Matter. Journal of Computer Assisted Tomography, 1997, 21, 539-553.	0.9	154
168	3D computed X-ray tomography of human cancellous bone at 8 Î¼m spatial and 10â^'4 energy resolution. Bone and Mineral, 1994, 25, 25-38.	1.9	178
169	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
170	The High Energy Materials Science Beamline (HEMS) at PETRA III. Materials Science Forum, 0, 772, 57-61.	0.3	169
171	50 Hz Xâ€Ray Diffraction Stress Analysis and Numerical Process Simulation at Laser Surface Line Hardening of Web Structures. Advanced Engineering Materials, 0, , 2100119.	3.5	1
172	Using Inâ€‰Situ Synchrotronâ€Radiationâ€Based Microtomography to Investigate 3D Structureâ€Dependent Material Properties of Tension Wood. Advanced Engineering Materials, 0, , 2100235.	3.5	3