

Bert Mller

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253
papers

4,629
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37
h-index

59
g-index

299
ext. papers

5,302
ext. citations

4.4
avg, IF

5.21
L-index

#	Paper	IF	Citations
253	Shear-stress sensitive lenticular vesicles for targeted drug delivery. <i>Nature Nanotechnology</i> , 2012 , 7, 536-43	28.7	208
252	The morphology of anisotropic 3D-printed hydroxyapatite scaffolds. <i>Biomaterials</i> , 2008 , 29, 3799-806	15.6	167
251	Strained-layer growth and islanding of germanium on Si(111)-(7 × 7) studied with STM. <i>Surface Science</i> , 1991 , 248, 321-331	1.8	162
250	Circulating levels of copeptin, a novel biomarker, in lower respiratory tract infections. <i>European Journal of Clinical Investigation</i> , 2007 , 37, 145-52	4.6	146
249	Tailoring Selective Laser Melting Process Parameters for NiTi Implants. <i>Journal of Materials Engineering and Performance</i> , 2012 , 21, 2519-2524	1.6	132
248	Microstructure of selective laser melted nickel-titanium. <i>Materials Characterization</i> , 2014 , 94, 189-202	3.9	125
247	Impaired action of thyroid hormone associated with smoking in women with hypothyroidism. <i>New England Journal of Medicine</i> , 1995 , 333, 964-9	59.2	120
246	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, 1665-76	4.1	114
245	Layer-by-layer growth of germanium on Si(100): strain-induced morphology and the influence of surfactants. <i>Ultramicroscopy</i> , 1992 , 42-44, 832-837	3.1	108
244	Haemostatic profile in hypothyroidism as potential risk factor for vascular or thrombotic disease. <i>European Journal of Clinical Investigation</i> , 2001 , 31, 131-7	4.6	93
243	Comparison of microfocus- and synchrotron X-ray tomography for the analysis of osteointegration around Ti6Al4V implants. <i>European Cells and Materials</i> , 2004 , 7, 42-51; discussion 51	4.3	84
242	Initial stages of Cu epitaxy on Ni(100): Postnucleation and a well-defined transition in critical island size. <i>Physical Review B</i> , 1996 , 54, 17858-17865	3.3	83
241	Impact of nanometer-scale roughness on contact-angle hysteresis and globulin adsorption. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2001 , 19, 1715		81
240	Volumetric Nanoscale Imaging: Hard X-Ray Nanoholotomography: Large-Scale, Label-Free, 3D Neuroimaging beyond Optical Limit (Adv. Sci. 6/2018). <i>Advanced Science</i> , 2018 , 5, 1870036	13.6	78
239	Protein adsorption and monocyte activation on germanium nanopyramids. <i>Biomaterials</i> , 2001 , 22, 2307-16	15.6	77
238	Dimer Pairing on the C-Alloyed Si(001) Surface. <i>Physical Review Letters</i> , 1999 , 82, 972-975	7.4	72
237	Biomimetic Remineralization of Carious Lesions by Self-Assembling Peptide. <i>Journal of Dental Research</i> , 2017 , 96, 790-797	8.1	65

236	Non-destructive three-dimensional evaluation of a polymer sponge by micro-tomography using synchrotron radiation. <i>New Biotechnology</i> , 2002 , 19, 73-8		60
235	High-resolution X-ray tomography of the human inner ear: synchrotron radiation-based study of nerve fibre bundles, membranes and ganglion cells. <i>Journal of Microscopy</i> , 2009 , 234, 95-102	1.9	56
234	Differentiation of human mesenchymal stem cells on plasma-treated polyetheretherketone. <i>Journal of Materials Science: Materials in Medicine</i> , 2014 , 25, 515-25	4.5	55
233	Resorbable defect analog PLGA scaffolds using CO ₂ as solvent: structural characterization. <i>Journal of Biomedical Materials Research Part B</i> , 2002 , 62, 89-98		55
232	The use of shear stress for targeted drug delivery. <i>Cardiovascular Research</i> , 2013 , 99, 328-33	9.9	54
231	Strain relief at metal interfaces with square symmetry. <i>Physical Review Letters</i> , 1996 , 76, 2358-2361	7.4	54
230	Nanostructure of healthy and caries-affected human teeth. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2011 , 7, 694-701	6	53
229	Circulating levels of pro-atrial natriuretic peptide in lower respiratory tract infections. <i>Journal of Internal Medicine</i> , 2006 , 260, 568-76	10.8	51
228	Island Shape Transition in Heteroepitaxial Metal Growth on Square Lattices. <i>Physical Review Letters</i> , 1998 , 80, 2642-2645	7.4	50
227	Three-dimensional strain fields in human brain resulting from formalin fixation. <i>Journal of Neuroscience Methods</i> , 2011 , 202, 17-27	3	49
226	Multimodal imaging of human cerebellum - merging X-ray phase microtomography, magnetic resonance microscopy and histology. <i>Scientific Reports</i> , 2012 , 2, 826	4.9	49
225	Position paper from the IBRA Symposium on Surgery of the Head--the 2nd International Symposium for Condylar Fracture Osteosynthesis, Marseille, France 2012. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , 2014 , 42, 1234-49	3.6	47
224	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, 1401-15	18.8	46
223	Extending two-dimensional histology into the third dimension through conventional micro computed tomography. <i>NeuroImage</i> , 2016 , 139, 26-36	7.9	44
222	MBE growth of para-hexaphenyl on GaAs(001)-2 \times 8. <i>Surface Science</i> , 1998 , 418, 256-266	1.8	41
221	Self-Assembly in Ultrahigh Vacuum: Growth of Organic Thin Films with a Stable In-Plane Directional Order. <i>Journal of the American Chemical Society</i> , 1998 , 120, 8563-8564	16.4	41
220	Tomographic brain imaging with nucleolar detail and automatic cell counting. <i>Scientific Reports</i> , 2016 , 6, 32156	4.9	41
219	In situ scanning tunneling microscopy study of C-induced Ge quantum dot formation on Si(100). <i>Applied Physics Letters</i> , 1999 , 74, 994-996	3.4	39

218	High density resolution in synchrotron-radiation-based attenuation-contrast microtomography 2008 ,		38
217	An optimization procedure for spatial and density resolution in hard X-ray micro-computed tomography. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2004 , 225, 599-603	1.2	37
216	Artificial Muscle Devices: Innovations and Prospects for Fecal Incontinence Treatment. <i>Annals of Biomedical Engineering</i> , 2016 , 44, 1355-69	4.7	36
215	Three-dimensional quantification of capillary networks in healthy and cancerous tissues of two mice. <i>Microvascular Research</i> , 2012 , 84, 314-22	3.7	36
214	Reduction of the bacterial load by the silver-coated endotracheal tube (SCET), a laboratory investigation. <i>Technology and Health Care</i> , 1999 , 7, 359-370	1.1	35
213	Siloxane-based thin films for biomimetic low-voltage dielectric actuators. <i>Sensors and Actuators A: Physical</i> , 2015 , 233, 32-41	3.9	34
212	Experimental comparison of grating- and propagation-based hard X-ray phase tomography of soft tissue. <i>Journal of Applied Physics</i> , 2014 , 116, 154903	2.5	34
211	Bony labyrinth morphology clarifies the origin and evolution of deer. <i>Scientific Reports</i> , 2017 , 7, 13176	4.9	33
210	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	0.5	31
209	Electrospraying Nanometer-Thin Elastomer Films for Low-Voltage Dielectric Actuators. <i>Advanced Electronic Materials</i> , 2016 , 2, 1500476	6.4	31
208	Hard X-Ray Nanoholotomography: Large-Scale, Label-Free, 3D Neuroimaging beyond Optical Limit. <i>Advanced Science</i> , 2018 , 5, 1700694	13.6	30
207	Oblique Incidence Organic Molecular Beam Deposition and Nonlinear Optical Properties of Organic Thin Films with a Stable In-Plane Directional Order. <i>Advanced Materials</i> , 1999 , 11, 745-749	24	30
206	Recent developments in x-ray Talbot interferometry at ESRF-ID19 2010 ,		29
205	Rapid prototyped porous nickel-titanium scaffolds as bone substitutes. <i>Journal of Tissue Engineering</i> , 2014 , 5, 2041731414540674	7.5	28
204	Comparison between x-ray tube-based and synchrotron radiation-based μ CT 2008 ,		28
203	Morphology of bony tissues and implants uncovered by high-resolution tomographic imaging. <i>International Journal of Materials Research</i> , 2007 , 98, 613-621	0.5	28
202	NATURAL FORMATION OF NANOSTRUCTURES: FROM FUNDAMENTALS IN METAL HETEROEPITAXY TO APPLICATIONS IN OPTICS AND BIOMATERIALS SCIENCE. <i>Surface Review and Letters</i> , 2001 , 08, 169-228	1.1	28
201	Holotomography versus X-ray grating interferometry: A comparative study. <i>Applied Physics Letters</i> , 2013 , 103, 244105	3.4	27

200	Surface patterned polymer micro-cantilever arrays for sensing. <i>Sensors and Actuators A: Physical</i> , 2011 , 172, 2-8	3.9	26
199	Automatic selection of a representative trial from multiple measurements using Principle Component Analysis. <i>Journal of Biomechanics</i> , 2012 , 45, 2306-9	2.9	25
198	Three-dimensional registration of tomography data for quantification in biomaterials science. <i>International Journal of Materials Research</i> , 2012 , 103, 242-249	0.5	24
197	Strain fields in histological slices of brain tissue determined by synchrotron radiation-based micro computed tomography. <i>Journal of Neuroscience Methods</i> , 2008 , 170, 149-55	3	24
196	Binding and ordering of large organic molecules on an anisotropic metal surface: PVBA on Pd(110). <i>Surface Science</i> , 1999 , 431, 168-173	1.8	24
195	Nanostructure of carious tooth enamel lesion. <i>Acta Biomaterialia</i> , 2014 , 10, 355-64	10.8	23
194	High-resolution tomographic imaging of microvessels 2008 ,		23
193	Nondestructive three-dimensional evaluation of biocompatible materials by microtomography using synchrotron radiation 2002 ,		23
192	Understanding nano-anatomy of healthy and carious human teeth: a prerequisite for nanodentistry. <i>Biointerphases</i> , 2012 , 7, 4	1.8	22
191	The stiffness of bone marrow cell-knit composites is increased during mechanical load. <i>Biomaterials</i> , 2001 , 22, 3169-78	15.6	22
190	Three-dimensional characterization of cell clusters using synchrotron-radiation-based micro-computed tomography. <i>Microscopy and Microanalysis</i> , 2006 , 12, 97-105	0.5	21
189	Prenatal growth stages show the development of the ruminant bony labyrinth and petrosal bone. <i>Journal of Anatomy</i> , 2017 , 230, 347-353	2.9	20
188	Tomography studies of human foreskin fibroblasts on polymer yarns. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2003 , 200, 397-405	1.2	20
187	The bony labyrinth of toothed whales reflects both phylogeny and habitat preferences. <i>Scientific Reports</i> , 2018 , 8, 7841	4.9	20
186	Combining micro computed tomography and three-dimensional registration to evaluate local strains in shape memory scaffolds. <i>Acta Biomaterialia</i> , 2014 , 10, 1024-34	10.8	19
185	Wood-Derived Porous Ceramics via Infiltration of SiO ₂ -Sol and Carbothermal Reduction. <i>Holzforschung</i> , 2003 , 57, 440-446	2	19
184	Epitaxial growth of para-hexaphenyl on GaAs(001)-2 \times 8. <i>Surface Science</i> , 1999 , 437, 191-197	1.8	19
183	Strain relief in metal heteroepitaxy on face-centered-cubic(100): Cu/Ni(100). <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1996 , 14, 1878-1881	2.9	19

182	Comparing the accuracy of master models based on digital intra-oral scanners with conventional plaster casts. <i>Physics in Medicine</i> , 2016 , 1, 20-26	2.7	19
181	Amino acid neurotransmitter metabolism in neurones and glia following kainate injection in rats. <i>Neuroscience Letters</i> , 2000 , 279, 169-72	3.3	18
180	SPA-RHEED: A novel method in reflection high-energy electron diffraction with extremely high angular and energy resolution. <i>Review of Scientific Instruments</i> , 1995 , 66, 5232-5235	1.7	18
179	Damping of Selective-Laser-Melted NiTi for Medical Implants. <i>Journal of Materials Engineering and Performance</i> , 2014 , 23, 2614-2619	1.6	17
178	Optimization of the artificial urinary sphincter: modelling and experimental validation. <i>Physics in Medicine and Biology</i> , 2006 , 51, 1361-75	3.8	17
177	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, e389-93	4.7	16
176	Nanomethods: Scanning X-ray scattering: Evaluating the nanostructure of human tissues. <i>European Journal of Nanomedicine</i> , 2010 , 3,		16
175	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	1.2	16
174	Strain Relief via Island Ramification in Submonolayer Heteroepitaxy. <i>Surface Review and Letters</i> , 1998 , 05, 769-781	1.1	16
173	The petrosal bone and bony labyrinth of early to middle Miocene European deer (Mammalia, Cervidae) reveal their phylogeny. <i>Journal of Morphology</i> , 2016 , 277, 1329-38	1.6	15
172	Surprising lack of liposome-induced complement activation by artificial 1,3-diamidophospholipids in vitro. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2016 , 12, 845-849	6	14
171	Mineralization of Early Stage Carious Lesions In Vitro-A Quantitative Approach. <i>Dentistry Journal</i> , 2015 , 3, 111-122	3.1	14
170	Impact of adhesive surface and volume of luting resin on fracture resistance of root filled teeth. <i>International Endodontic Journal</i> , 2011 , 44, 432-9	5.4	14
169	A UHV STM for in situ characterization of MBE/CVD growth on 4-inch wafers. <i>Applied Physics A: Materials Science and Processing</i> , 1998 , 66, S993-S997	2.6	14
168	Contractile cell forces exerted on rigid substrates. <i>European Cells and Materials</i> , 2011 , 21, 479-86; discussion 486-7	4.3	14
167	Tailoring biocompatibility: Benefitting patients. <i>Materials Today</i> , 2010 , 13, 58	21.8	13
166	Molecular beam deposition of high-permittivity polydimethylsiloxane for nanometer-thin elastomer films in dielectric actuators. <i>Materials and Design</i> , 2016 , 105, 106-113	8.1	11
165	Immunological response to nitroglycerin-loaded shear-responsive liposomes in vitro and in vivo. <i>Journal of Controlled Release</i> , 2017 , 264, 14-23	11.7	11

164	Assessing the morphology of selective laser melted NiTi-scaffolds for a three-dimensional quantification of the one-way shape memory effect 2013 ,		11
163	A comparative STM and SPA-LEED study on the evolution of strain induced stripe pattern on Cu/Ni(100). <i>Surface Science</i> , 1997 , 376, 113-122	1.8	11
162	Trench formation in surfactant mediated epitaxial film growth of Ge on Si(100). <i>Applied Physics A: Solids and Surfaces</i> , 1992 , 54, 265-269		11
161	Thin Film Formation and Morphology of Electrospayed Polydimethylsiloxane. <i>Langmuir</i> , 2016 , 32, 3276-33	4.3	10
160	Gold Layers on Elastomers near the Critical Stress Regime. <i>Advanced Materials Technologies</i> , 2017 , 2, 1700105	6.8	10
159	Micro- and nanostructured polymer substrates for biomedical applications 2012 ,		10
158	Determination of strain fields in porous shape memory alloys using micro-computed tomography 2010 ,		10
157	Molecular beam epitaxy of p-hexaphenyl on GaAs(111). <i>Surface and Interface Analysis</i> , 2000 , 30, 518-521	1.5	10
156	Cracks in dentin and enamel after cryopreservation. <i>Oral Surgery, Oral Medicine, Oral Pathology and Oral Radiology</i> , 2012 , 113, e5-e10	2	9
155	Nanostructuring polyetheretherketone for medical implants. <i>European Journal of Nanomedicine</i> , 2012 , 4,		9
154	Comparison of reflection high-energy electron diffraction and low-energy electron diffraction using high-resolution instrumentation. <i>Surface Science</i> , 1997 , 389, 338-348	1.8	9
153	In-plane alignment of noncentrosymmetric molecules by oblique-incidence molecular beam deposition. <i>Applied Physics Letters</i> , 1999 , 74, 3110-3112	3.4	9
152	Scavenging of Dickkopf-1 by macromer-based biomaterials covalently decorated with sulfated hyaluronan displays pro-osteogenic effects. <i>Acta Biomaterialia</i> , 2020 , 114, 76-89	10.8	9
151	Three-dimensional imaging and analysis of entire peripheral nerves after repair and reconstruction. <i>Journal of Neuroscience Methods</i> , 2018 , 295, 37-44	3	9
150	Three-dimensional and non-destructive characterization of nerves inside conduits using laboratory-based micro computed tomography. <i>Journal of Neuroscience Methods</i> , 2018 , 294, 59-66	3	9
149	Single and double grating-based X-ray microtomography using synchrotron radiation. <i>Applied Physics Letters</i> , 2017 , 110, 061103	3.4	8
148	Implementation of a double-grating interferometer for phase-contrast computed tomography in a conventional system nanotom m. <i>APL Bioengineering</i> , 2018 , 2, 016106	6.6	8
147	Spatially resolved small-angle X-ray scattering for characterizing mechanoresponsive liposomes using microfluidics. <i>Materials Today Bio</i> , 2019 , 1, 100003	9.9	8

146	High-sensitivity phase-contrast tomography of rat brain in phosphate buffered saline. <i>Journal of Physics: Conference Series</i> , 2009 , 186, 012046	0.3	8
145	Evaluating the microstructure of human brain tissues using synchrotron radiation-based micro-computed tomography 2010 ,		8
144	Disposable polymeric micro-cantilever arrays for sensing. <i>Procedia Engineering</i> , 2010 , 5, 347-350		8
143	Visualising complex morphology of fatigue cracks in voxel based 3D datasets. <i>Materials Science and Technology</i> , 2006 , 22, 1038-1044	1.5	8
142	Tailoring the mass distribution and functional group density of dimethylsiloxane-based films by thermal evaporation. <i>APL Materials</i> , 2016 , 4, 056101	5.7	8
141	Morphology and conductivity of Au films on polydimethylsiloxane using (3-mercaptopropyl)trimethoxysilane (MPTMS) as an adhesion promoter 2016 ,		8
140	Mechanical and chemical stability of injection-molded microcantilevers used for sensing. <i>Journal of Applied Polymer Science</i> , 2013 , 127, 2363-2370	2.9	7
139	Real-time measurements of human chondrocyte heat production during in vitro proliferation. <i>Biotechnology and Bioengineering</i> , 2011 , 108, 3019-24	4.9	7
138	Comparative micro computed tomography study of a vertebral body 2008 ,		7
137	Tomography studies of biological cells on polymer scaffolds. <i>Journal of Physics Condensed Matter</i> , 2004 , 16, S3499-S3510	1.8	7
136	Degradation Kinetics of Biodegradable Fiber Composites. <i>Journal of Polymers and the Environment</i> , 2000 , 8, 91-96	4.5	7
135	Ge-Quantum Dots on Si(001) Tailored by Carbon Predeposition. <i>Materials Research Society Symposia Proceedings</i> , 1998 , 533, 183		7
134	Strain-induced dimer adatom stacking fault structures of germanium on Si(111)-(1 \times 1)R30 \times B observed by scanning tunneling microscopy. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 1992 , 10, 16		7
133	Stress measurements of planar dielectric elastomer actuators. <i>Review of Scientific Instruments</i> , 2016 , 87, 053901	1.7	7
132	Time-Resolved Plasmonics used to On-Line Monitor Metal/Elastomer Deposition for Low-Voltage Dielectric Elastomer Transducers. <i>Advanced Electronic Materials</i> , 2017 , 3, 1700073	6.4	6
131	Sensitivity comparison of absorption and grating-based phase tomography of paraffin-embedded human brain tissue. <i>Applied Physics Letters</i> , 2019 , 114, 083702	3.4	6
130	Automatic deformable registration of histological slides to CT volume data. <i>Journal of Microscopy</i> , 2018 , 271, 49-61	1.9	6
129	Tailoring surface nanostructures on polyaryletherketones for load-bearing implants. <i>European Journal of Nanomedicine</i> , 2014 , 6,		6

128	Nano-mechanical transduction of polymer micro-cantilevers to detect bio-molecular interactions. <i>Biointerphases</i> , 2012 , 7, 6	1.8	6
127	Mid-regional pro-atrial natriuretic peptide and the assessment of volaemic status and differential diagnosis of profound hyponatraemia. <i>Journal of Internal Medicine</i> , 2015 , 278, 29-37	10.8	6
126	Bio-inspired dental fillings 2009 ,		6
125	Systemic allergic dermatitis reaction to nickel released from an eyelet in an intravenous catheter. <i>Contact Dermatitis</i> , 2009 , 61, 180-2	2.7	6
124	Morphology of atherosclerotic coronary arteries 2012 ,		6
123	Film thickness measurement and linear dichroism of organic thin films prepared by molecular beam deposition at oblique incidence. <i>Optical Materials</i> , 1999 , 12, 345-350	3.3	6
122	Three-dimensional morphology and mechanics of bone scaffolds fabricated by rapid prototyping. <i>International Journal of Materials Research</i> , 2012 , 103, 200-206	0.5	6
121	Histology to microCT data matching using landmarks and a density biased RANSAC. <i>Lecture Notes in Computer Science</i> , 2014 , 17, 243-50	0.9	6
120	Ex vivo evaluation of an atherosclerotic human coronary artery via histology and high-resolution hard X-ray tomography. <i>Scientific Reports</i> , 2019 , 9, 14348	4.9	5
119	Micro- and nanostructured electro-active polymer actuators as smart muscles for incontinence treatment 2015 ,		5
118	Morphology of urethral tissues 2010 ,		5
117	Designing micro- and nanostructures for artificial urinary sphincters 2012 ,		5
116	X-ray grating interferometer for imaging at a second-generation synchrotron radiation source 2010 ,		5
115	Anatomy of the murine and human cochlea visualized at the cellular level by synchrotron-radiation-based micro-computed tomography 2006 ,		5
114	Conducting and stretchable nanometer-thin gold/thiol-functionalized polydimethylsiloxane films. <i>Journal of Nanophotonics</i> , 2018 , 12, 1	1.1	5
113	Virtual histology of an entire mouse brain from formalin fixation to paraffin embedding. Part 1: Data acquisition, anatomical feature segmentation, tracking global volume and density changes. <i>Journal of Neuroscience Methods</i> , 2021 , 364, 109354	3	5
112	Biomimetic nanostructures for the silicone-biosystem interface: tuning oxygen-plasma treatments of polydimethylsiloxane. <i>European Journal of Nanomedicine</i> , 2017 , 9,		4
111	Nanomechanical probing of thin-film dielectric elastomer transducers. <i>Applied Physics Letters</i> , 2017 , 111, 093104	3.4	4

110	Multimodal imaging of the human knee down to the cellular level. <i>Journal of Physics: Conference Series</i> , 2017 , 849, 012026	0.3	4
109	Global and local hard X-ray tomography of a centimeter-size tumor vessel tree. <i>Journal of Synchrotron Radiation</i> , 2012 , 19, 114-25	2.4	4
108	Bio-mimetic hollow scaffolds for long bone replacement 2009 ,		4
107	Comparison of denture models by means of micro computed tomography 2012 ,		4
106	The cochlea in fetuses with neural tube defects. <i>International Journal of Developmental Neuroscience</i> , 2009 , 27, 669-76	2.7	4
105	Pelizaeus Merzbacher disease: morphological analysis of the vestibulo-cochlear system. <i>Acta Oto-Laryngologica</i> , 2009 , 129, 1395-9	1.6	4
104	Comparative study of desktop- and synchrotron radiation-based micro computed tomography analyzing cell-seeded scaffolds in tissue engineering of bone 2008 ,		4
103	Minipig urethra: a suitable animal model in vitro. <i>Technology and Health Care</i> , 2012 , 20, 329-36	1.1	4
102	Ordering of PVBA on amorphous SiO ₂ and Pd(110). <i>Thin Solid Films</i> , 1999 , 343-344, 171-174	2.2	4
101	A quantitative correction for phase wrapping artifacts in hard X-ray grating interferometry. <i>Applied Physics Letters</i> , 2018 , 113, 093702	3.4	4
100	Leakage current, self-clearing and actuation efficiency of nanometer-thin, low-voltage dielectric elastomer transducers tailored by thermal evaporation 2017 ,		3
99	PDE10A mutation in two sisters with a hyperkinetic movement disorder - Response to levodopa. <i>Parkinsonism and Related Disorders</i> , 2019 , 63, 240-242	3.6	3
98	Shedding Light on Metal-Based Nanoparticles in Zebrafish by Computed Tomography with Micrometer Resolution. <i>Small</i> , 2020 , 16, e2000746	11	3
97	Crosslinkable polymeric contrast agent for high-resolution X-ray imaging of the vascular system. <i>Chemical Communications</i> , 2020 , 56, 5885-5888	5.8	3
96	Biomimetic artificial sphincter muscles: status and challenges 2016 ,		3
95	Automated Analysis of Spatially Resolved X-ray Scattering and Micro Computed Tomography of Artificial and Natural Enamel Carious Lesions. <i>Journal of Imaging</i> , 2018 , 4, 81	3.1	3
94	Small-Angle Neutron Scattering Study of Temperature-Induced Structural Changes in Liposomes. <i>Langmuir</i> , 2019 , 35, 11210-11216	4	3
93	Ultraviolet-B zone surface cleaning of injection-molded, thermoplastic microcantilevers. <i>Journal of Applied Polymer Science</i> , 2015 , 132, n/a-n/a	2.9	3

92	Grating interferometry-based phase microtomography of atherosclerotic human arteries 2014 ,		3
91	Nanodentistry. <i>Nanoscience and Technology</i> , 2012 , 95-107	0.6	3
90	Grating-based tomography of human tissues 2012 ,		3
89	Comparison of propagation-based phase-contrast tomography approaches for the evaluation of dentin microstructure 2012 ,		3
88	Asymmetric rotational axis reconstruction of grating-based x-ray phase contrast tomography of the human cerebellum 2012 ,		3
87	Inelastic Scattering in Reflection High-Energy Electron Diffraction from Si(111). <i>Physical Review Letters</i> , 1997 , 79, 4393-4396	7.4	3
86	NUCLEATION AND GROWTH OF Cu/Ni(100): A VARIABLE TEMPERATURE STM STUDY. <i>Surface Review and Letters</i> , 1997 , 04, 1161-1165	1.1	3
85	Three-dimensional assessment of brain tissue morphology 2006 , 6318, 9		3
84	3D analysis of bone formation around titanium implants using micro computed tomography (CT) 2006 ,		3
83	Functional micro-imaging of soft and hard tissue using synchrotron light 2004 ,		3
82	Immunocompatibility of Rad-PC-Rad liposomes in vitro, based on human complement activation and cytokine release. <i>Precision Nanomedicine</i> , 2018 , 1, 43-62	1.2	3
81	Comparing the accuracy of intraoral scanners, using advanced micro computed tomography 2019 ,		3
80	Toward genome editing in X-linked RP-development of a mouse model with specific treatment relevant features. <i>Translational Research</i> , 2019 , 203, 57-72	11	3
79	2017 ,		3
78	Electrospraying and ultraviolet light curing of nanometer-thin polydimethylsiloxane membranes for low-voltage dielectric elastomer transducers 2017 ,		2
77	Hierarchically structured polydimethylsiloxane films for ultra-soft neural interfaces. <i>Micro and Nano Engineering</i> , 2020 , 7, 100051	3.4	2
76	Polydimethylsiloxane films engineered for smart nanostructures. <i>Microelectronic Engineering</i> , 2018 , 194, 1-7	2.5	2
75	X-ray micro-tomography for investigations of brain tissues on cellular level 2016 ,		2

74	Characterization of a human tooth with carious lesions using conventional and synchrotron radiation-based micro computed tomography 2014 ,		2
73	Assessing the grain structure of highly X-ray absorbing metallic alloys. <i>International Journal of Materials Research</i> , 2014 , 105, 692-701	0.5	2
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