

Simon Zabler

List of Publications by Year in descending order

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papers

547
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687363

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33
docs citations

33
times ranked

671
citing authors

#	ARTICLE	IF	CITATIONS
1	Fatigue induced changes in conical implantâ€“abutment connections. <i>Dental Materials</i> , 2015, 31, 1415-1426.	3.5	58
2	The partial Talbot effect and its use in measuring the coherence of synchrotron X-rays. <i>Journal of Synchrotron Radiation</i> , 2004, 11, 476-482.	2.4	56
3	An In Vitro Pilot Study of Abutment Stability During Loading in New and Fatigue-Loaded Conical Dental Implants Using Synchrotron-Based Radiography. <i>International Journal of Oral and Maxillofacial Implants</i> , 2013, 28, 44-50.	1.4	48
4	Magnetic Particle Imaging meets Computed Tomography: first simultaneous imaging. <i>Scientific Reports</i> , 2019, 9, 12627.	3.3	38
5	The Impact of Melt Electrowritten Scaffold Design on Porosity Determined by X-Ray Microtomography. <i>Tissue Engineering - Part C: Methods</i> , 2019, 25, 367-379.	2.1	37
6	Local fiber orientation from X-ray region-of-interest computed tomography of large fiber reinforced composite components. <i>Composites Science and Technology</i> , 2019, 183, 107786.	7.8	32
7	Projection angle dependence in grating-based X-ray dark-field imaging of ordered structures. <i>Optics Express</i> , 2013, 21, 19922.	3.4	31
8	Calcium oxalate crystal distribution in rose peduncles: Non-invasive analysis by synchrotron X-ray micro-tomography. <i>Postharvest Biology and Technology</i> , 2012, 72, 27-34.	6.0	25
9	Fresnel-propagated submicrometer x-ray imaging of water-immersed tooth dentin. <i>Optics Letters</i> , 2007, 32, 2987.	3.3	20
10	Correcting multi material artifacts from single material phase retrieved holo-tomograms with a simple 3D Fourier method. <i>Optics Express</i> , 2015, 23, 32718.	3.4	18
11	<i>In situ</i> microradioscopy and microtomography of fatigue-loaded dental two-piece implants. <i>Journal of Synchrotron Radiation</i> , 2015, 22, 1492-1497.	2.4	17
12	Optimization Based Evaluation of Grating Interferometric Phase Stepping Series and Analysis of Mechanical Setup Instabilities. <i>Journal of Imaging</i> , 2018, 4, 77.	3.0	16
13	Fatigue induced deformation of taper connections in dental titanium implants. <i>International Journal of Materials Research</i> , 2012, 103, 207-216.	0.3	15
14	Phase-contrast and dark-field imaging for the inspection of resin-rich areas and fiber orientation in non-crimp vacuum infusion carbon-fiber-reinforced polymers. <i>Journal of Materials Science</i> , 2021, 56, 9712-9727.	3.7	15
15	The Impact of Force Transmission on Narrow-Body Dental Implants Made of Commercially Pure Titanium and Titanium Zirconia Alloy with a Conical Implant-Abutment Connection: An Experimental Pilot Study. <i>International Journal of Oral and Maxillofacial Implants</i> , 2016, 31, 1066-1071.	1.4	12
16	How cellulose nanofibrils and cellulose microparticles impact paper strengthâ€“A visualization approach. <i>Carbohydrate Polymers</i> , 2021, 254, 117406.	10.2	12
17	Propagator based formalism for optimizing in-line phase contrast imaging in laboratory X-ray setups. <i>Review of Scientific Instruments</i> , 2016, 87, 093707.	1.3	10
18	Hybrid setup for micro- and nano-computed tomography in the hard X-ray range. <i>Review of Scientific Instruments</i> , 2017, 88, 123702.	1.3	10

#	ARTICLE	IF	CITATIONS
19	Implementation of a Computed Tomography System based on a laboratory-based nanofocus X-ray source.. <i>Microscopy and Microanalysis</i> , 2018, 24, 236-237.	0.4	10
20	Precise Evaluation of the Cochlear Duct Length by Flat-panel Volume Computed Tomography (fpVCT)â€™Implication of Secondary Reconstructions. <i>Otology and Neurotology</i> , 2021, 42, e294-e303.	1.3	9
21	Synchrotron-based micro computed tomography investigation of the implant-abutment fatigue-induced microgap changes. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021, 116, 104330.	3.1	8
22	X-ray imaging and computed tomography for engineering applications. <i>TM Technisches Messen</i> , 2021, 88, 211-226.	0.7	8
23	In situ demineralisation of human enamel studied by synchrotron-based X-ray microtomography â€™ A descriptive pilot-study. <i>Micron</i> , 2013, 44, 404-409.	2.2	7
24	Validation of finite-element simulations with synchrotron radiography â€™ A descriptive study of micromechanics in two-piece dental implants. <i>Heliyon</i> , 2018, 4, e00524.	3.2	7
25	Non-destructive characterisation of out-of-plane fibre waviness in carbon fibre reinforced polymers by X-ray dark-field radiography. <i>Nondestructive Testing and Evaluation</i> , 2022, 37, 497-507.	2.1	6
26	Cobalt Ferrite Nanoparticles for Three-Dimensional Visualization of Micro- and Nanostructured Cellulose in Paper. <i>ACS Applied Nano Materials</i> , 2019, 2, 3864-3869.	5.0	5
27	Vestibular Aqueduct Morphology and Meniere's Diseaseâ€™Development of the â€™Vestibular Aqueduct Scoreâ€™by 3D Analysis. <i>Frontiers in Surgery</i> , 2022, 9, 747517.	1.4	4
28	Region-of-Interest X-Ray Tomography for the Non-Destructive Characterization of Local Fiber Orientation in Large Fiber Composite Parts. <i>Key Engineering Materials</i> , 2019, 809, 587-593.	0.4	3
29	Precise evaluation of the postoperative cochlear duct length by flat-panel volume computed tomography â€™ Application of secondary reconstructions. <i>Cochlear Implants International</i> , 2021, , 1-11.	1.2	3
30	Characterization of aluminum alloy microstructures by means of synchrotron X-ray micro-tomography â€™ a simple toolchain for extracting quantitative 3D morphological features. <i>International Journal of Materials Research</i> , 2020, 111, 32-39.	0.3	3
31	Robust Image Reconstruction Strategy for Multiscalar Holotomography. <i>Journal of Imaging</i> , 2022, 8, 37.	3.0	2
32	Phase-Contrast and Dark-Field Imaging. <i>Journal of Imaging</i> , 2018, 4, 113.	3.0	1
33	Synchrotron X-ray CT of rose peduncles â€™ evaluation of tissue damage by radiation*. <i>Materialpruefung/Materials Testing</i> , 2015, 57, 59-63.	2.2	1