

Randolf Hanke

List of Publications by Year in descending order

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28
papers

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citations

1040056

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29
all docs

29
docs citations

29
times ranked

592
citing authors

#	ARTICLE	IF	CITATIONS
1	X-ray based methods for non-destructive testing and material characterization. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2008, 591, 14-18.	1.6	171
2	Magnetic Particle Imaging meets Computed Tomography: first simultaneous imaging. Scientific Reports, 2019, 9, 12627.	3.3	38
3	Automatic Determination of Fiber-Length Distribution in Composite Material Using 3D CT Data. Eurasip Journal on Advances in Signal Processing, 2010, 2010, .	1.7	29
4	<i>In situ</i> microradioscopy and microtomography of fatigue-loaded dental two-piece implants. Journal of Synchrotron Radiation, 2015, 22, 1492-1497.	2.4	17
5	Linking two worlds in polymer chemistry: The influence of block uniformity and dispersity in amphiphilic block copolypeptoids on their self-assembly. Biopolymers, 2019, 110, e23259.	2.4	14
6	Design of Graded Materials by Particle Reinforcement During Accumulative Roll Bonding. Advanced Engineering Materials, 2012, 14, 1009-1017.	3.5	12
7	Laboratory X-ray microscopy with a nano-focus X-ray source. Journal of Instrumentation, 2011, 6, C11017-C11017.	1.2	11
8	Propagator based formalism for optimizing in-line phase contrast imaging in laboratory X-ray setups. Review of Scientific Instruments, 2016, 87, 093707.	1.3	10
9	Hybrid setup for micro- and nano-computed tomography in the hard X-ray range. Review of Scientific Instruments, 2017, 88, 123702.	1.3	10
10	Implementation of a Computed Tomography System based on a laboratory-based nanofocus X-ray source.. Microscopy and Microanalysis, 2018, 24, 236-237.	0.4	10
11	X-ray imaging and computed tomography for engineering applications. TM Technisches Messen, 2021, 88, 211-226.	0.7	8
12	Comparison of different sources for laboratory X-ray microscopy. Journal of Instrumentation, 2012, 7, C10008-C10008.	1.2	7
13	Laboratory-Based Nano-Computed Tomography and Examples of Its Application in the Field of Materials Research. Crystals, 2021, 11, 677.	2.2	6
14	A translation-based data acquisition method for computed tomography: Theoretical analysis and simulation study. Medical Physics, 2013, 40, 081922.	3.0	5
15	3-D scanning of sea freight containers using MeV X-rays. , 2013, , .		5
16	Task-driven design of X-ray systems for industrial inspection. , 2008, , .		4
17	ROSI and GEANT4 – A comparison in the context of high energy X-ray physics. Nuclear Instruments & Methods in Physics Research B, 2016, 377, 50-58.	1.4	4
18	3D X-ray Tomography - Basics and Latest Developments. , 2018, , 1-14.		3

#	ARTICLE	IF	CITATIONS
19	Characterization of aluminum alloy microstructures by means of synchrotron X-ray micro-tomography – a simple toolchain for extracting quantitative 3D morphological features. International Journal of Materials Research, 2020, 111, 32-39.	0.3	3
20	Carbon fibre preform inspection by circular X-ray tomosynthesis. , 2008, , .		2
21	Progress in sub-micrometer resolution computed tomography. , 2008, , .		1
22	High resolution applications in nondestructive testing. , 2008, , .		0
23	Measurement of shafts in the production process based on x-rays. , 2010, , .		0
24	Influences on 3D image quality in a high-resolution Xray laminography system. Journal of Instrumentation, 2014, 9, C05030-C05030.	1.2	0
25	Recent progress in 3-D imaging of sea freight containers. , 2015, , .		0
26	Hardware based contrast enhancement and cupping reduction in industrial MeV Cone Beam Computed Tomography. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2021, 994, 165044.	1.6	0
27	Quantitative phase contrast and X-ray scattering micro-tomography with the 9.2 keV liquid metal jet anode: applications on materials and life science. , 2017, , .		0
28	3D X-Ray Tomography: Basics and Latest Developments. , 2019, , 1167-1180.		0