Felix Kim

List of Publications by Year
in descending order

25 papers	478 citations	840585 11 h-index	713332 21 g-index
28 all docs	28 docs citations	28 times ranked	559 citing authors

#	Article	IF	Citations
1	Pore Space and Fluid Phase Characterization in Round and Angular Partially Saturated Sands Using Radiation-Based Tomography and Persistent Homology. Transport in Porous Media, 2021, 137, 131-155.	1.2	6
2	Merging experiments and computer simulations in X-ray Computed Tomography probability of detection analysis of additive manufacturing flaws. NDT and E International, 2021, 119, 102416.	1.7	15
3	Characterizing the effects of laser control in laser powder bed fusion on near-surface pore formation via combined analysis of in-situ melt pool monitoring and X-ray computed tomography. Additive Manufacturing, 2021, 48, 102372.	1.7	5
4	Investigation of the Effect of Artificial Internal Defects on the Tensile Behavior of Laser Powder Bed Fusion 17â€“4 Stainless Steel Samples: Simultaneous Tensile Testing and X-Ray Computed Tomography. Experimental Mechanics, 2020, 60, 987-1004.	1.1	24
5	Exploring Registration of Optical, CMM and XCT for Verification of Supplemental Surfaces to Define AM Lattices: Application to Cylindrical and Spherical Surfaces. Procedia CIRP, 2020, 92, 181-186.	1.0	5
6	X-ray Computed Tomography Data ofAdditive Manufacturing Metrology Testbed (AMMT) Parts: â€œOverhang Part X4â€. Journal of Research of the National Institute of Standards and Technology, 2020, 125, .	0.4	1
7	Resonant acoustic nonlinearity and loss in additively manufactured stainless steel. AIP Conference Proceedings, 2019, , .	0.3	7
8	Micromechanical response quantification using high-energy X-rays during phase transformations in additively manufactured 17-4 stainless steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 759, 565-573.	2.6	11
9	X-ray Computed Tomography InstrumentPerformance Evaluation, Part I: Sensitivity to Detector Geometry Errors. Journal of Research of the National Institute of Standards and Technology, 2019, 124, 1-16.	0.4	9
10	The Influence of X-Ray Computed Tomography Acquisition Parameters on Image Quality and Probability of Detection of Additive Manufacturing Defects. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2019, 141, .	1.3	16
11	X-ray computed tomography instrument performance evaluation: Detecting geometry errors using a calibrated artifact. , 2019, , .		5
12	X-ray Computed Tomography Instrument Performance Evaluation, Part II: Sensitivity to Rotation Stage Errors. Journal of Research of the National Institute of Standards and Technology, 2019, 124, 1-13.	0.4	6
13	Investigation of pore structure in cobalt chrome additively manufactured parts using X-ray computed tomography and three-dimensional image analysis. Additive Manufacturing, 2017, 17, 23-38.	1.7	57
14	Synchrotron 4-dimensional imaging of two-phase flow through porous media. MRS Advances, 2016, 1, 2757-2761.	0.5	1
15	Meso-scale framework for modeling granular material using computed tomography. Computers and Geotechnics, 2016, 76, 140-146.	2.3	24
16	High-resolution X-ray and neutron computed tomography of partially saturated granular materials subjected to projectile penetration. International Journal of Impact Engineering, 2016, 89, 72-82.	2.4	17
17	Damage of Composite Materials Subjected to Projectile Penetration Using High Resolution X-Ray Micro Computed Tomography. Experimental Mechanics, 2016, 56, 607-616.	1.1	16
18	Characterizing Partially Saturated Compacted-Sand Specimen Using 3D Image Registration of High-Resolution Neutron and X-Ray Tomography. Journal of Computing in Civil Engineering, 2015, 29, .	2.5	16

#	Article	IF	Citations
19	Multimodal Radiation Based Tomography and Diffraction of Granular Materials Using Neutrons and Photons and Instrumented Penetration Mechanics. , 2015, , 267-290.		1
20	Nondestructive Visualization and Quantification of 3-D Microstructure of Granular Materials and Direct Numerical Simulations. , 2014, , .		1
21	High-Resolution Neutron and X-Ray Imaging of Granular Materials. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2013, 139, 715-723.	1.5	58
22	Pore Size Distribution and Soil Water Suction Curve from Micro-tomography Measurements and Real 3-D Digital Microstructure of a Compacted Granular Media by Using Direct Numerical Simulation Technique. Springer Series in Geomechanics and Geoengineering, 2013, , 171-176.	0.0	6
23	Lattice Boltzmann Simulation of Two Phase Flow through Porous Media and Verification Using High Resolution X-ray and Neutron Tomography Data. , 2013, , .		3
24	Water Distribution Variation in Partially Saturated Granular Materials Using Neutron Imaging. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2012, 138, 147-154.	1.5	47
25	A highly adaptive detector system for high resolution neutron imaging. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 651, 95-99.	0.7	68