

Kentaro Uesugi

List of Publications by Year in descending order

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454
papers

12,945
citations

31976

53
h-index

40979

93
g-index

468
all docs

468
docs citations

468
times ranked

9088
citing authors

#	ARTICLE	IF	CITATIONS
1	Comet 81P/Wild 2 Under a Microscope. <i>Science</i> , 2006, 314, 1711-1716.	12.6	848
2	The Rubble-Pile Asteroid Itokawa as Observed by Hayabusa. <i>Science</i> , 2006, 312, 1330-1334.	12.6	761
3	Three-Dimensional Structure of Hayabusa Samples: Origin and Evolution of Itokawa Regolith. <i>Science</i> , 2011, 333, 1125-1128.	12.6	249
4	Low Core-Mantle Boundary Temperature Inferred from the Solidus of Pyrolite. <i>Science</i> , 2014, 343, 522-525.	12.6	224
5	Chondrulelike Objects in Short-Period Comet 81P/Wild 2. <i>Science</i> , 2008, 321, 1664-1667.	12.6	215
6	Elemental Compositions of Comet 81P/Wild 2 Samples Collected by Stardust. <i>Science</i> , 2006, 314, 1731-1735.	12.6	200
7	Establishing Functional Residual Capacity at Birth: The Effect of Sustained Inflation and Positive End-Expiratory Pressure in a Preterm Rabbit Model. <i>Pediatric Research</i> , 2009, 65, 537-541.	2.3	178
8	Imaging lung aeration and lung liquid clearance at birth. <i>FASEB Journal</i> , 2007, 21, 3329-3337.	0.5	177
9	Growth behavior of hydrogen micropores in aluminum alloys during high-temperature exposure. <i>Acta Materialia</i> , 2009, 57, 2277-2290.	7.9	150
10	3D Shape Characterization and Image-Based DEM Simulation of the Lunar Soil Simulant FJS-1. <i>Journal of Aerospace Engineering</i> , 2009, 22, 15-23.	1.4	141
11	Effect of Sustained Inflation Length on Establishing Functional Residual Capacity at Birth in Ventilated Premature Rabbits. <i>Pediatric Research</i> , 2009, 66, 295-300.	2.3	141
12	2D and 3D X-ray phase retrieval of multi-material objects using single defocus distance. <i>Optics Express</i> , 2010, 18, 6423.	3.4	141
13	Preliminary analysis of the Hayabusa2 samples returned from C-type asteroid Ryugu. <i>Nature Astronomy</i> , 2022, 6, 214-220.	10.1	136
14	Positive end-expiratory pressure enhances development of a functional residual capacity in preterm rabbits ventilated from birth. <i>Journal of Applied Physiology</i> , 2009, 106, 1487-1493.	2.5	134
15	The role of trace element segregation in the eutectic modification of hypoeutectic Al-Si alloys. <i>Journal of Alloys and Compounds</i> , 2010, 489, 415-420.	5.5	132
16	On the origin of speckle in x-ray phase contrast images of lung tissue. <i>Physics in Medicine and Biology</i> , 2004, 49, 4335-4348.	3.0	129
17	Electron density measurement with dual-energy x-ray CT using synchrotron radiation. <i>Physics in Medicine and Biology</i> , 2003, 48, 673-685.	3.0	122
18	The influence of Ni and Zn additions on microstructure and phase transformations in Sn-0.7Cu/Cu solder joints. <i>Acta Materialia</i> , 2015, 83, 357-371.	7.9	119

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19	High-density three-dimensional mapping of internal strain by tracking microstructural features. <i>Acta Materialia</i> , 2008, 56, 2167-2181.	7.9	117
20	Processing of a Strong Biodegradable Poly[(R)-3-hydroxybutyrate] Fiber and a New Fiber Structure Revealed by Micro-Beam X-Ray Diffraction with Synchrotron Radiation. <i>Macromolecular Rapid Communications</i> , 2004, 25, 1100-1104.	3.9	111
21	Magma deformation may induce non-explosive volcanism via degassing through bubble networks. <i>Earth and Planetary Science Letters</i> , 2009, 281, 267-274.	4.4	110
22	Dynamic imaging of the lungs using x-ray phase contrast. <i>Physics in Medicine and Biology</i> , 2005, 50, 5031-5040.	3.0	104
23	Inspiration regulates the rate and temporal pattern of lung liquid clearance and lung aeration at birth. <i>Journal of Applied Physiology</i> , 2009, 106, 1888-1895.	2.5	100
24	Development of X-ray Imaging for Observing Solidification of Carbon Steels. <i>ISIJ International</i> , 2011, 51, 402-408.	1.4	100
25	Formation of Highly Ordered Structure in Poly[(R)-3-hydroxybutyrate-co-(R)-3-hydroxyvalerate] High-Strength Fibers. <i>Macromolecules</i> , 2006, 39, 2940-2946.	4.8	94
26	Quantitative assessment of microstructure and its effects on compression behavior of aluminum foams via high-resolution synchrotron X-ray tomography. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2006, 37, 1211-1219.	2.2	93
27	Healing behavior of preexisting hydrogen micropores in aluminum alloys during plastic deformation. <i>Acta Materialia</i> , 2009, 57, 4391-4403.	7.9	93
28	The True Origin of Ductile Fracture in Aluminum Alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2014, 45, 765-776.	2.2	91
29	Granular deformation mechanisms in semi-solid alloys. <i>Acta Materialia</i> , 2011, 59, 4933-4943.	7.9	89
30	Direct measurement procedure for three-dimensional local crack driving force using synchrotron X-ray microtomography. <i>Acta Materialia</i> , 2008, 56, 6027-6039.	7.9	88
31	CT dose reduction factors in the thousands using X-ray phase contrast. <i>Scientific Reports</i> , 2017, 7, 15953.	3.3	88
32	Evolution of bubble microstructure in sheared rhyolite: Formation of a channel-like bubble network. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	86
33	Development of high spatial resolution X-ray CT system at BL47XU in SPring-8. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2001, 467-468, 853-856.	1.6	85
34	Dynamic measures of regional lung air volume using phase contrast x-ray imaging. <i>Physics in Medicine and Biology</i> , 2008, 53, 6065-6077.	3.0	83
35	Phase contrast X-ray imaging of mice and rabbit lungs: a comparative study. <i>British Journal of Radiology</i> , 2005, 78, 1018-1027.	2.2	81
36	<i>In situ</i> observation of solidification phenomena in Al-Cu and Fe-Si-Al alloys. <i>International Journal of Cast Metals Research</i> , 2009, 22, 15-21.	1.0	81

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37	Direct observation of deformation in semi-solid carbon steel. <i>Scripta Materialia</i> , 2011, 64, 1129-1132.	5.2	81
38	X-ray refraction-enhanced imaging and a method for phase retrieval for a simple object. <i>Journal of Synchrotron Radiation</i> , 2002, 9, 160-165.	2.4	80
39	Shear deformation experiments on vesicular rhyolite: Implications for brittle fracturing, degassing, and compaction of magmas in volcanic conduits. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	80
40	Microbeam X-ray Diffraction and Enzymatic Degradation of Poly[(R)-3-hydroxybutyrate] Fibers with Two Kinds of Molecular Conformations. <i>Macromolecules</i> , 2006, 39, 5789-5795.	4.8	78
41	Dendrite fragmentation induced by massive-like β transformation in Fe-C alloys. <i>Nature Communications</i> , 2019, 10, 3183.	12.8	65
42	Construction and Commissioning of A 248 m-long Beamline with X-ray Undulator Light Source. <i>AIP Conference Proceedings</i> , 2004, , .	0.4	64
43	IMAGING LUNG AERATION AND LUNG LIQUID CLEARANCE AT BIRTH USING PHASE CONTRAST X-RAY IMAGING. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2009, 36, 117-125.	1.9	64
44	Influence of high-temperature solution treatments on mechanical properties of an Al-Si-Cu aluminum alloy. <i>Acta Materialia</i> , 2010, 58, 2014-2025.	7.9	64
45	Non-destructive observation of internal fatigue crack growth in Ti-6Al-4V by using synchrotron radiation μ CT imaging. <i>International Journal of Fatigue</i> , 2016, 93, 397-405.	5.7	64
46	Three-dimensional fatigue crack growth behavior in an aluminum alloy investigated with in situ high-resolution synchrotron X-ray microtomography. <i>Acta Materialia</i> , 2009, 57, 3287-3300.	7.9	63
47	4D Visualization of a Cathode Catalyst Layer in a Polymer Electrolyte Fuel Cell by 3D Laminography-XAFS. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 10311-10314.	13.8	63
48	Coupled effect of magma degassing and rheology on silicic volcanism. <i>Earth and Planetary Science Letters</i> , 2013, 362, 163-170.	4.4	63
49	Assessment of hydrogen embrittlement via image-based techniques in Al-Zn-Mg-Cu aluminum alloys. <i>Acta Materialia</i> , 2019, 176, 96-108.	7.9	63
50	Quantitative evaluation of attenuation contrast of X-ray computed tomography images using monochromatized beams. <i>American Mineralogist</i> , 2005, 90, 132-142.	1.9	61
51	Three-dimensional diffusion of non-sorbing species in porous sandstone: computer simulation based on X-ray microtomography using synchrotron radiation. <i>Journal of Contaminant Hydrology</i> , 2004, 74, 253-264.	3.3	58
52	Optical Properties of In Situ Eye Lenses Measured with X-Ray Talbot Interferometry: A Novel Measure of Growth Processes. <i>PLoS ONE</i> , 2011, 6, e25140.	2.5	57
53	In situ investigation of unidirectional solidification in Sn-0.7Cu and Sn-0.7Cu-0.06Ni. <i>Acta Materialia</i> , 2011, 59, 4043-4054.	7.9	56
54	Analytical dual-energy microtomography: A new method for obtaining three-dimensional mineral phase images and its application to Hayabusa samples. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 116, 5-16.	3.9	55

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55	Influence of hydrogen on strain localization and fracture behavior in Al Zn Mg Cu aluminum alloys. <i>Acta Materialia</i> , 2018, 159, 332-343.	7.9	55
56	High-resolution visualization of airspace structures in intact mice via synchrotron phase-contrast X-ray imaging (PCXI). <i>Journal of Anatomy</i> , 2008, 213, 217-227.	1.5	54
57	Robust Liquid Marbles Stabilized with Surface-Modified Halloysite Nanotubes. <i>Langmuir</i> , 2013, 29, 14971-14975.	3.5	51
58	Combined microtomography, thermal desorption spectroscopy, X-ray diffraction study of hydrogen trapping behavior in 7XXX aluminum alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 655, 221-228.	5.6	51
59	Submicrometer-resolution three-dimensional imaging with hard x-ray imaging microtomography. <i>Review of Scientific Instruments</i> , 2002, 73, 4246-4249.	1.3	50
60	Characterization of two-dimensional ultra-small-angle X-ray scattering apparatus for application to rubber filled with spherical silica under elongation. <i>Journal of Applied Crystallography</i> , 2007, 40, s397-s401.	4.5	50
61	<i>In situ</i> observation of water distribution and behaviour in a polymer electrolyte fuel cell by synchrotron X-ray imaging. <i>Journal of Synchrotron Radiation</i> , 2008, 15, 329-334.	2.4	50
62	Damage micromechanisms in dual-phase steel investigated with combined phase- and absorption-contrast tomography. <i>Acta Materialia</i> , 2017, 126, 401-412.	7.9	50
63	Three-dimensional observation of nanoscopic precipitates in an aluminum alloy by microtomography with Fresnel zone plate optics. <i>Applied Physics Letters</i> , 2006, 89, 143112.	3.3	49
64	<i>In situ</i> observation of nucleation, fragmentation and microstructure evolution in Sn-Bi and Al-Cu alloys. <i>International Journal of Cast Metals Research</i> , 2008, 21, 125-128.	1.0	48
65	Three-dimensional microstructure of samples recovered from asteroid 25143 Itokawa: Comparison with ~ 5 and ~ 6 chondrite particles. <i>Meteoritics and Planetary Science</i> , 2014, 49, 172-187.	1.6	48
66	Computed tomography imaging of the neuronal structure of <i>Drosophila</i> brain. <i>Journal of Synchrotron Radiation</i> , 2007, 14, 282-287.	2.4	47
67	Bulk mineralogy and three-dimensional structures of individual Stardust particles deduced from synchrotron X-ray diffraction and microtomography analysis. <i>Meteoritics and Planetary Science</i> , 2008, 43, 247-259.	1.6	47
68	Floral Evidence of Annonaceae from the Late Cretaceous of Japan. <i>International Journal of Plant Sciences</i> , 2008, 169, 908-917.	1.3	47
69	Murine pulmonary acinar mechanics during quasi-static inflation using synchrotron refraction-enhanced computed tomography. <i>Journal of Applied Physiology</i> , 2013, 115, 219-228.	2.5	47
70	Bone structure and mineralization demonstrated using synchrotron radiation computed tomography (SR-CT) in animal models: preliminary findings. <i>Journal of Bone and Mineral Metabolism</i> , 2003, 21, 287-293.	2.7	46
71	Application of synchrotron x-ray microtomography to investigate ductile fracture in Al alloys. <i>Applied Physics Letters</i> , 2005, 87, 241907.	3.3	46
72	The eye lens: age-related trends and individual variations in refractive index and shape parameters. <i>Oncotarget</i> , 2015, 6, 30532-30544.	1.8	46

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73	Origin and formation of iron silicide phases in the aerogel of the Stardust mission. <i>Meteoritics and Planetary Science</i> , 2008, 43, 121-134.	1.6	45
74	A method for estimating spatial resolution of real image in the Fourier domain. <i>Journal of Microscopy</i> , 2016, 261, 57-66.	1.8	45
75	Age-related changes in eye lens biomechanics, morphology, refractive index and transparency. <i>Aging</i> , 2019, 11, 12497-12531.	3.1	44
76	Structure investigation of narrow banded spherulites in polyhydroxyalkanoates by microbeam X-ray diffraction with synchrotron radiation. <i>Polymer</i> , 2005, 46, 5673-5679.	3.8	43
77	Monochromatic synchrotron radiation $\hat{1}/4$ CT reveals disuse-mediated canal network rarefaction in cortical bone of growing rat tibiae. <i>Journal of Applied Physiology</i> , 2006, 100, 274-280.	2.5	43
78	Development of high-resolution 4D <i>in vivo</i> CT for visualization of cardiac and respiratory deformations of small animals. <i>Physics in Medicine and Biology</i> , 2008, 53, 4285-4301.	3.0	43
79	Phase contrast image segmentation using a Laue analyser crystal. <i>Physics in Medicine and Biology</i> , 2011, 56, 515-534.	3.0	42
80	Comparison of lens- and fiber-coupled CCD detectors for X-ray computed tomography. <i>Journal of Synchrotron Radiation</i> , 2011, 18, 217-223.	2.4	42
81	Statistical assessment of fatigue crack initiation from sub-surface hydrogen micropores in high-quality die-cast aluminum. <i>Acta Materialia</i> , 2011, 59, 4990-4998.	7.9	42
82	The role of lung inflation and sodium transport in airway liquid clearance during lung aeration in newborn rabbits. <i>Pediatric Research</i> , 2013, 73, 443-449.	2.3	41
83	Roles of Pre-Existing Hydrogen Micropores on Ductile Fracture. <i>Materials Transactions</i> , 2009, 50, 2285-2290.	1.2	39
84	Demonstration of osmotically dependent promotion of aerenchyma formation at different levels in the primary roots of rice using a "sandwich" method and X-ray computed tomography. <i>Annals of Botany</i> , 2012, 110, 503-509.	2.9	39
85	In situ phase contrast X-ray brain CT. <i>Scientific Reports</i> , 2018, 8, 11412.	3.3	39
86	Pressure and Composition Effects on Sound Velocity and Density of Core-Forming Liquids: Implication to Core Compositions of Terrestrial Planets. <i>Journal of Geophysical Research E: Planets</i> , 2019, 124, 2272-2293.	3.6	39
87	Micro- and macrobehavior of granitic rock: observations and viscoelastic homogenization analysis. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2001, 191, 47-72.	6.6	38
88	Massive transformation from $\hat{1}$ phase to $\hat{3}$ phase in Fe-C alloys and strain induced in solidifying shell. <i>IOP Conference Series: Materials Science and Engineering</i> , 2012, 33, 012036.	0.6	38
89	Direct observation of grain rotations during coarsening of a semisolid Al-Cu alloy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E5998-E6006.	7.1	38
90	Initiation and growth behaviour of small internal fatigue cracks in Ti-6Al-4V via synchrotron radiation microcomputed tomography. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2019, 42, 2093-2105.	3.4	38

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91	Surfactant Increases the Uniformity of Lung Aeration at Birth in Ventilated Preterm Rabbits. <i>Pediatric Research</i> , 2011, 70, 50-55.	2.3	37
92	Influences of hydrogen on deformation and fracture behaviors of high Zn 7XXX aluminum alloys. <i>International Journal of Fracture</i> , 2016, 200, 13-29.	2.2	37
93	Preferential penetration path of gallium into grain boundary in practical aluminium alloy. <i>Philosophical Magazine</i> , 2006, 86, 4351-4366.	1.6	36
94	Development of fast and high throughput tomography using CMOS image detector at SPring-8. <i>Proceedings of SPIE</i> , 2012, , .	0.8	36
95	Surface and internal structures of a space-weathered rim of an Itokawa regolith particle. <i>Icarus</i> , 2015, 257, 230-238.	2.5	36
96	Nondestructive three-dimensional element-concentration mapping of a Cs-doped partially molten granite by X-ray computed tomography using synchrotron radiation. <i>American Mineralogist</i> , 2004, 89, 1304-1313.	1.9	35
97	Development of micro-tomography system with Fresnel zone plate optics at SPring-8. , 2006, , .		35
98	Zernike phase-contrast x-ray microscope with pseudo-Kohler illumination generated by sectored (polygon) condenser plate. <i>Journal of Physics: Conference Series</i> , 2009, 186, 012020.	0.4	35
99	Microtomographic Analysis of Neuronal Circuits of Human Brain. <i>Cerebral Cortex</i> , 2010, 20, 1739-1748.	2.9	35
100	Phase-contrast X-ray microtomography of mouse fetus. <i>Biology Open</i> , 2012, 1, 269-274.	1.2	34
101	Study of creep cavitation behavior in tempered martensitic steel using synchrotron micro-tomography and serial sectioning techniques. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 564, 525-538.	5.6	34
102	Real time synchrotron X-ray observations of solidification in hypoeutectic Al-Si alloys. <i>Materials Characterization</i> , 2013, 85, 134-140.	4.4	34
103	Selection and constraint underlie irreversibility of tooth loss in cypriniform fishes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 7707-7712.	7.1	34
104	X-ray phase, absorption and scatter retrieval using two or more phase contrast images. <i>Optics Express</i> , 2010, 18, 19994.	3.4	33
105	Discovery of fossil asteroidal ice in primitive meteorite Acfer 094. <i>Science Advances</i> , 2019, 5, eaax5078.	10.3	33
106	Direct Observation and Image-Based Simulation of Three-Dimensional Tortuous Crack Evolution inside Opaque Materials. <i>Physical Review Letters</i> , 2008, 100, 115505.	7.8	32
107	Cavitation during high-temperature deformation in Al-Mg alloys. <i>Acta Materialia</i> , 2013, 61, 2403-2413.	7.9	32
108	<title>Development of microtomography imaging system for rock and mineral samples</title>. , 1999, 3772, 214.		31

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109	Fabrication of porous aluminum with deep pores by using Al-In monotectic solidification and electrochemical etching. <i>Materials Letters</i> , 2004, 58, 911-915.	2.6	31
110	Grain boundary tracking: A four-dimensional visualization technique for determining grain boundary geometry via local strain mapping. <i>Acta Materialia</i> , 2013, 61, 5535-5548.	7.9	31
111	<i>In Vivo</i> X-Ray Imaging Reveals Improved Airway Surface Hydration after a Therapy Designed for Cystic Fibrosis. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2014, 190, 469-472.	5.6	31
112	Investigation of 3D Grain Shape Characteristics of Lunar Soil Retrieved in Apollo 16 Using Image-Based Discrete-Element Modeling. <i>Journal of Aerospace Engineering</i> , 2015, 28, .	1.4	31
113	Development of an X-ray imaging detector to resolve 200-nm line-and-space patterns by using transparent ceramics layers bonded by solid-state diffusion. <i>Optics Letters</i> , 2019, 44, 1403.	3.3	31
114	Refraction-enhanced tomography of mouse and rabbit lungs. <i>Medical Physics</i> , 2005, 32, 2787-2792.	3.0	30
115	In-situ High-resolution X-ray CT Observation of Compressive and Damage Behaviour of Aluminium Foams by Local Tomography Technique. <i>Advanced Engineering Materials</i> , 2006, 8, 473-475.	3.5	30
116	Phase contrast X-ray imaging for the non-invasive detection of airway surfaces and lumen characteristics in mouse models of airway disease. <i>European Journal of Radiology</i> , 2008, 68, S22-S26.	2.6	30
117	X-Ray Microtomographic Imaging of Three-Dimensional Structure of Soft Tissues. <i>Tissue Engineering - Part C: Methods</i> , 2008, 14, 359-363.	2.1	30
118	Three-dimensional structures and elemental distributions of Stardust impact tracks using synchrotron microtomography and X-ray fluorescence analysis. <i>Meteoritics and Planetary Science</i> , 2009, 44, 1203-1224.	1.6	30
119	Three-dimensional network of Drosophila brain hemisphere. <i>Journal of Structural Biology</i> , 2013, 184, 271-279.	2.8	30
120	Impact of melt convection induced by ultrasonic wave on dendrite growth in Sn-Bi alloys. <i>Materials Letters</i> , 2015, 150, 135-138.	2.6	30
121	Microstructural evolution of electrodes in sintering of multi-layer ceramic capacitors (MLCC) observed by synchrotron X-ray nano-CT. <i>Acta Materialia</i> , 2021, 206, 116605.	7.9	30
122	Four-Dimensional Annihilation Behaviors of Micro Pores during Surface Cold Working. <i>Materials Transactions</i> , 2010, 51, 1288-1295.	1.2	29
123	Diffraction-amalgamated grain boundary tracking for mapping 3D crystallographic orientation and strain fields during plastic deformation. <i>Acta Materialia</i> , 2016, 107, 310-324.	7.9	29
124	Influence of Mg on Solidification of Hypereutectic Cast Iron: X-ray Radiography Study. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015, 46, 4937-4946.	2.2	28
125	Divergent evolution of medusozoan symmetric patterns: Evidence from the microanatomy of Cambrian tetramerous cubozoans from South China. <i>Gondwana Research</i> , 2016, 31, 150-163.	6.0	28
126	Three-dimensional alteration of neurites in schizophrenia. <i>Translational Psychiatry</i> , 2019, 9, 85.	4.8	28

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127	Detecting micrometer-scale platinum-group minerals in mantle peridotite with microbeam synchrotron radiation X-ray fluorescence analysis. <i>Geochemistry, Geophysics, Geosystems</i> , 2008, 9, .	2.5	27
128	Confocal full-field X-ray microscope for novel three-dimensional X-ray imaging. <i>Journal of Synchrotron Radiation</i> , 2009, 16, 616-621.	2.4	27
129	Investigation of internal structure of fine granules by microtomography using synchrotron X-ray radiation. <i>International Journal of Pharmaceutics</i> , 2013, 445, 93-98.	5.2	27
130	Numerical simulation of airflow and microparticle deposition in a synchrotron micro-CT-based pulmonary acinus model. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2015, 18, 1427-1435.	1.6	27
131	Nanomorphology of Itokawa regolith particles: Application to space-weathering processes affecting the Itokawa asteroid. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 187, 195-217.	3.9	27
132	3D multiscale-imaging of processing-induced defects formed during sintering of hierarchical powder packings. <i>Scientific Reports</i> , 2019, 9, 11595.	3.3	27
133	3-D Image-Based Mechanical Simulation of Aluminium Foams: Effects of Internal Microstructure. <i>Advanced Engineering Materials</i> , 2006, 8, 459-467.	3.5	26
134	Development of an X-ray real-time stereo imaging technique using synchrotron radiation. <i>Journal of Synchrotron Radiation</i> , 2011, 18, 569-574.	2.4	26
135	Experimental constraints on permeable gas transport in crystalline silicic magmas. <i>Contributions To Mineralogy and Petrology</i> , 2012, 164, 493-504.	3.1	26
136	Development of vertically aligned ZnO-nanowires scintillators for high spatial resolution x-ray imaging. <i>Applied Physics Letters</i> , 2015, 106, .	3.3	26
137	Nondestructive Multiscale X-Ray Tomography by Combining Microtomography and High-Energy Phase-Contrast Nanotomography. <i>Microscopy and Microanalysis</i> , 2018, 24, 108-109.	0.4	26
138	Development of fast (sub-minute) micro-tomography. <i>AIP Conference Proceedings</i> , 2010, , .	0.4	25
139	In-situobservation of peritectic solidification in Sn-Cd and Fe-C alloys. <i>IOP Conference Series: Materials Science and Engineering</i> , 2012, 27, 012084.	0.6	25
140	High-resolution Observation of Steel Using X-ray Tomography Technique. <i>ISIJ International</i> , 2012, 52, 516-521.	1.4	25
141	High-pressure rotational deformation apparatus to 135 GPa. <i>Review of Scientific Instruments</i> , 2017, 88, 044501.	1.3	25
142	Impacts of Diabetes and an SGLT2 Inhibitor on the Glomerular Number and Volume in db/db Mice, as Estimated by Synchrotron Radiation Micro-CT at SPring-8. <i>EBioMedicine</i> , 2018, 36, 329-346.	6.1	25
143	High-energy x-ray nanotomography introducing an apodization Fresnel zone plate objective lens. <i>Review of Scientific Instruments</i> , 2021, 92, 023701.	1.3	25
144	Structural Analysis of Filler in Rubber Composite under Stretch with Time-Resolved Two-Dimensional Ultra-Small-Angle X-Ray Scattering. <i>Rubber Chemistry and Technology</i> , 2008, 81, 541-551.	1.2	24

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145	Influences of Hydrogen Micropores and Intermetallic Particles on Fracture Behaviors of Al-Zn-Mg-Cu Aluminum Alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2016, 47, 6077-6089.	2.2	24
146	Quantitative and dynamic measurements of biological fresh samples with X-ray phase contrast tomography. <i>Journal of Synchrotron Radiation</i> , 2014, 21, 1347-1357.	2.4	24
147	Fast tomography using quasi-monochromatic undulator radiation. <i>Journal of Synchrotron Radiation</i> , 2006, 13, 403-407.	2.4	23
148	Analysis of inner structure in high-strength biodegradable fibers by X-ray microtomography using synchrotron radiation. <i>Polymer</i> , 2007, 48, 6145-6151.	3.8	23
149	Non-destructive observation of meteorite chips using quantitative analysis of optimized X-ray micro-computed tomography. <i>Earth and Planetary Science Letters</i> , 2010, 299, 359-367.	4.4	23
150	Effects of Hydrogen Micro Pores on Mechanical Properties in A2024 Aluminum Alloys. <i>Materials Transactions</i> , 2013, 54, 2195-2201.	1.2	23
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