

Francoise Peyrin

List of Publications by Year in descending order

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301
papers

9,034
citations

30070

54
h-index

54911

84
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313
all docs

313
docs citations

313
times ranked

7288
citing authors

#	ARTICLE	IF	CITATIONS
1	Observation of microstructure and damage in materials by phase sensitive radiography and tomography. <i>Journal of Applied Physics</i> , 1997, 81, 5878-5886.	2.5	479
2	A synchrotron radiation microtomography system for the analysis of trabecular bone samples. <i>Medical Physics</i> , 1999, 26, 2194-2204.	3.0	242
3	Tissue engineering of bone: search for a better scaffold. <i>Orthodontics and Craniofacial Research</i> , 2005, 8, 277-284.	2.8	215
4	Quantification of the degree of mineralization of bone in three dimensions using synchrotron radiation microtomography. <i>Medical Physics</i> , 2002, 29, 2672-2681.	3.0	211
5	Ultrasonic characterization of human cancellous bone using transmission and backscatter measurements: relationships to density and microstructure. <i>Bone</i> , 2002, 30, 229-237.	2.9	179
6	A triangulation algorithm from arbitrary shaped multiple planar contours. <i>ACM Transactions on Graphics</i> , 1991, 10, 182-199.	7.2	169
7	Synchrotron Radiation Microtomography Allows the Analysis of Three-Dimensional Microarchitecture and Degree of Mineralization of Human Iliac Crest Biopsy Specimens: Effects of Etidronate Treatment. <i>Journal of Bone and Mineral Research</i> , 2002, 17, 1372-1382.	2.8	154
8	Three-dimensional simulation of ultrasound propagation through trabecular bone structures measured by synchrotron microtomography. <i>Physics in Medicine and Biology</i> , 2005, 50, 5545-5556.	3.0	153
9	Cortical Bone in the Human Femoral Neck: Three-Dimensional Appearance and Porosity Using Synchrotron Radiation. <i>Journal of Bone and Mineral Research</i> , 2004, 19, 794-801.	2.8	147
10	Quantitative comparison of direct phase retrieval algorithms in in-line phase tomography. <i>Medical Physics</i> , 2008, 35, 4556-4566.	3.0	143
11	Subchondral bone micro-architectural alterations in osteoarthritis: a synchrotron micro-computed tomography study. <i>Osteoarthritis and Cartilage</i> , 2006, 14, 215-223.	1.3	141
12	X-Ray Phase Nanotomography Resolves the 3D Human Bone Ultrastructure. <i>PLoS ONE</i> , 2012, 7, e35691.	2.5	140
13	Engineering of bone using bone marrow stromal cells and a silicon-stabilized tricalcium phosphate bioceramic: Evidence for a coupling between bone formation and scaffold resorption. <i>Biomaterials</i> , 2007, 28, 1376-1384.	11.4	126
14	Surface delivery of tunable doses of BMP-2 from an adaptable polymeric scaffold induces volumetric bone regeneration. <i>Biomaterials</i> , 2016, 104, 168-181.	11.4	124
15	Frequency dependence of ultrasonic backscattering in cancellous bone: Autocorrelation model and experimental results. <i>Journal of the Acoustical Society of America</i> , 2000, 108, 2403-2411.	1.1	121
16	Bone microstructure and elastic tissue properties are reflected in QUS axial transmission measurements. <i>Ultrasound in Medicine and Biology</i> , 2005, 31, 1225-1235.	1.5	121
17	Change in porosity is the major determinant of the variation of cortical bone elasticity at the millimeter scale in aged women. <i>Bone</i> , 2011, 49, 1020-1026.	2.9	116
18	Variation of Ultrasonic Parameters With Microstructure and Material Properties of Trabecular Bone: A 3D Model Simulation. <i>Journal of Bone and Mineral Research</i> , 2007, 22, 665-674.	2.8	112

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19	Bulk and interface investigations of scaffolds and tissue-engineered bones by X-ray microtomography and X-ray microdiffraction. <i>Biomaterials</i> , 2007, 28, 2505-2524.	11.4	110
20	An In Vitro Study of the Ultrasonic Axial Transmission Technique at the Radius: 1-MHz Velocity Measurements Are Sensitive to Both Mineralization and Intracortical Porosity. <i>Journal of Bone and Mineral Research</i> , 2004, 19, 1548-1556.	2.8	109
21	Canalicular Network Morphology Is the Major Determinant of the Spatial Distribution of Mass Density in Human Bone Tissue: Evidence by Means of Synchrotron Radiation Phase-Contrast nano-CT. <i>Journal of Bone and Mineral Research</i> , 2015, 30, 346-356.	2.8	108
22	Microstructure and transport properties of porous building materials. II: Three-dimensional X-ray tomographic studies. <i>Materials and Structures/Materiaux Et Constructions</i> , 2000, 33, 147-153.	3.1	107
23	3D osteocyte lacunar morphometric properties and distributions in human femoral cortical bone using synchrotron radiation micro-CT images. <i>Bone</i> , 2014, 60, 172-185.	2.9	105
24	Intermittent PTH(1-84) is osteoanabolic but not osteoangiogenic and relocates bone marrow blood vessels closer to bone-forming sites. <i>Journal of Bone and Mineral Research</i> , 2011, 26, 2583-2596.	2.8	96
25	Derivation of elastic stiffness from site-matched mineral density and acoustic impedance maps. <i>Physics in Medicine and Biology</i> , 2006, 51, 747-758.	3.0	95
26	Investigation of the three-dimensional orientation of mineralized collagen fibrils in human lamellar bone using synchrotron X-ray phase nano-tomography. <i>Acta Biomaterialia</i> , 2013, 9, 8118-8127.	8.3	95
27	Status and evolution of the ESRF beamline ID19. <i>AIP Conference Proceedings</i> , 2010, , .	0.4	94
28	Determination of the heterogeneous anisotropic elastic properties of human femoral bone: From nanoscopic to organ scale. <i>Journal of Biomechanics</i> , 2010, 43, 1857-1863.	2.1	91
29	Fast wave ultrasonic propagation in trabecular bone: Numerical study of the influence of porosity and structural anisotropy. <i>Journal of the Acoustical Society of America</i> , 2008, 123, 1694-1705.	1.1	88
30	Micro- and Nano-CT for the Study of Bone Ultrastructure. <i>Current Osteoporosis Reports</i> , 2014, 12, 465-474.	3.6	87
31	Excised Bone Structures in Mice: Imaging at Three-dimensional Synchrotron Radiation Micro CT. <i>Radiology</i> , 2003, 229, 921-928.	7.3	86
32	Relationships of trabecular bone structure with quantitative ultrasound parameters: In vitro study on human proximal femur using transmission and backscatter measurements. <i>Bone</i> , 2008, 42, 1193-1202.	2.9	84
33	Nanoscale imaging of the bone cell network with synchrotron X-ray tomography: optimization of acquisition setup. <i>Medical Physics</i> , 2012, 39, 2229-2238.	3.0	84
34	Synchrotron X-ray phase nano-tomography-based analysis of the lacunar/canalicular network morphology and its relation to the strains experienced by osteocytes in situ as predicted by case-specific finite element analysis. <i>Biomechanics and Modeling in Mechanobiology</i> , 2015, 14, 267-282.	2.8	83
35	A unified definition for the discrete-time, discrete-frequency, and discrete-time/Frequency Wigner distributions. <i>IEEE Transactions on Acoustics, Speech, and Signal Processing</i> , 1986, 34, 858-867.	2.0	82
36	Adaptive Basis Scan by Wavelet Prediction for Single-Pixel Imaging. <i>IEEE Transactions on Computational Imaging</i> , 2017, 3, 36-46.	4.4	81

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37	One-month spaceflight compromises the bone microstructure, tissue-level mechanical properties, osteocyte survival and lacunae volume in mature mice skeletons. <i>Scientific Reports</i> , 2017, 7, 2659.	3.3	80
38	Wavelet analysis of high-resolution signal-averaged ECGs in postinfarction patients. <i>Journal of Electrocardiology</i> , 1993, 26, 311-320.	0.9	79
39	How is the indentation modulus of bone tissue related to its macroscopic elastic response? A validation study. <i>Journal of Biomechanics</i> , 2003, 36, 1503-1509.	2.1	79
40	Site-matched assessment of structural and tissue properties of cortical bone using scanning acoustic microscopy and synchrotron radiation μ CT. <i>Physics in Medicine and Biology</i> , 2006, 51, 733-746.	3.0	75
41	Regularization of Phase Retrieval With Phase-Attenuation Duality Prior for 3-D Holotomography. <i>IEEE Transactions on Image Processing</i> , 2010, 19, 2428-2436.	9.8	71
42	Structure and quantification of microvascularisation within mouse long bones: What and how should we measure?. <i>Bone</i> , 2012, 50, 390-399.	2.9	70
43	Automated 3D region growing algorithm based on an assessment function. <i>Pattern Recognition Letters</i> , 2002, 23, 137-150.	4.2	65
44	Comparison of synchrotron radiation and conventional x-ray microcomputed tomography for assessing trabecular bone microarchitecture of human femoral heads. <i>Medical Physics</i> , 2006, 33, 3568-3577.	3.0	65
45	Kinetics of in vivo bone deposition by bone marrow stromal cells within a resorbable porous calcium phosphate scaffold: An X-ray computed microtomography study. <i>Biotechnology and Bioengineering</i> , 2007, 98, 271-281.	3.3	65
46	Synchrotron Radiation Micro-CT at the Micrometer Scale for the Analysis of the Three-Dimensional Morphology of Microcracks in Human Trabecular Bone. <i>PLoS ONE</i> , 2011, 6, e21297.	2.5	65
47	Regularization of nonlinear decomposition of spectral x-ray projection images. <i>Medical Physics</i> , 2017, 44, e174-e187.	3.0	65
48	Kinetics of In Vivo Bone Deposition by Bone Marrow Stromal Cells into Porous Calcium Phosphate Scaffolds: An X-Ray Computed Microtomography Study. <i>Tissue Engineering</i> , 2006, 12, 3449-3458.	4.6	63
49	Label-free imaging of bone multiscale porosity and interfaces using third-harmonic generation microscopy. <i>Scientific Reports</i> , 2017, 7, 3419.	3.3	62
50	3D Microstructural Architecture of Muscle Attachments in Extant and Fossil Vertebrates Revealed by Synchrotron Microtomography. <i>PLoS ONE</i> , 2013, 8, e56992.	2.5	61
51	Microarchitectural and Physical Changes During Fetal Growth in Human Vertebral Bone. <i>Journal of Bone and Mineral Research</i> , 2003, 18, 760-768.	2.8	60
52	Prediction of backscatter coefficient in trabecular bones using a numerical model of three-dimensional microstructure. <i>Journal of the Acoustical Society of America</i> , 2003, 113, 1122-1129.	1.1	59
53	Attenuation in trabecular bone: A comparison between numerical simulation and experimental results in human femur. <i>Journal of the Acoustical Society of America</i> , 2007, 122, 2469-2475.	1.1	59
54	X-ray camera for computed microtomography of biological samples with micrometer resolution using $3\text{Al}^5\text{O}^5$ and $3\text{Al}^5\text{O}^5$ scintillators. <i>Optics Letters</i> , 1999, 24, 3659, 170.		58

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55	Three-dimensional quantitative analysis of polymer foams from synchrotron radiation x-ray microtomography. <i>Journal Physics D: Applied Physics</i> , 2003, 36, A37-A43.	2.8	57
56	A method for the automatic characterization of bone architecture in 3D mice microtomographic images. <i>Computerized Medical Imaging and Graphics</i> , 2003, 27, 447-458.	5.8	56
57	Microfibril Orientation Dominates the Microelastic Properties of Human Bone Tissue at the Lamellar Length Scale. <i>PLoS ONE</i> , 2013, 8, e58043.	2.5	56
58	Biodegradation of porous calcium phosphate scaffolds in an ectopic bone formation model studied by X-ray computed microtomograph. , 2010, 19, 136-146.		55
59	Time-resolved multispectral imaging based on an adaptive single-pixel camera. <i>Optics Express</i> , 2018, 26, 10550.	3.4	54
60	3D characterization of pores in the cortical bone of human femur in the elderly at different locations as determined by synchrotron micro-computed tomography images. <i>Osteoporosis International</i> , 2013, 24, 1023-1033.	3.1	53
61	Relevance of 2D radiographic texture analysis for the assessment of 3D bone micro-architecture. <i>Medical Physics</i> , 2006, 33, 3546-3556.	3.0	52
62	Mineral heterogeneity has a minor influence on the apparent elastic properties of human cancellous bone: a SR μ CT-based finite element study. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2012, 15, 1137-1144.	1.6	50
63	Fast virtual histology using X-ray in-line phase tomography: application to the 3D anatomy of maize developing seeds. <i>Plant Methods</i> , 2015, 11, 55.	4.3	49
64	Alterations of Mass Density and 3D Osteocyte Lacunar Properties in Bisphosphonate-Related Osteonecrotic Human Jaw Bone, a Synchrotron μ CT Study. <i>PLoS ONE</i> , 2014, 9, e88481.	2.5	47
65	Relationship between ultrasonic parameters and apparent trabecular bone elastic modulus: A numerical approach. <i>Journal of Biomechanics</i> , 2009, 42, 2033-2039.	2.1	44
66	Spatial distribution of tissue level properties in a human femoral cortical bone. <i>Journal of Biomechanics</i> , 2012, 45, 2264-2270.	2.1	42
67	Investigation of bone with synchrotron radiation imaging: from micro to nano. <i>Osteoporosis International</i> , 2009, 20, 1057-1063.	3.1	40
68	Imaging and Quantitative Assessment of Long Bone Vascularization in the Adult Rat Using Microcomputed Tomography. <i>Anatomical Record</i> , 2010, 293, 215-224.	1.4	40
69	A constrained region growing approach based on watershed for the segmentation of low contrast structures in bone micro-CT images. <i>Pattern Recognition</i> , 2008, 41, 2358-2368.	8.1	39
70	Evaluation of bone scaffolds by micro-CT. <i>Osteoporosis International</i> , 2011, 22, 2043-2048.	3.1	39
71	Anatomical distribution of the degree of mineralization of bone tissue in human femoral neck: Impact on biomechanical properties. <i>Bone</i> , 2012, 50, 876-884.	2.9	39
72	Synchrotron Radiation X-Ray Phase Micro-computed Tomography as a New Method to Detect Iron Oxide Nanoparticles in the Brain. <i>Molecular Imaging and Biology</i> , 2013, 15, 552-559.	2.6	39

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73	X-ray in-line phase tomography of multimaterial objects. <i>Optics Letters</i> , 2012, 37, 2151.	3.3	38
74	The Generalized Back Projection Theorem for Cone Beam Reconstruction. <i>IEEE Transactions on Nuclear Science</i> , 1985, 32, 1512-1519.	2.0	36
75	A new method for analyzing local shape in three-dimensional images based on medial axis transformation. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 2003, 33, 700-705.	5.0	36
76	Synchrotron Radiation Microtomography of Bone Engineered from Bone Marrow Stromal Cells. <i>Tissue Engineering</i> , 2004, 10, 1767-1774.	4.6	36
77	Variations of microstructure, mineral density and tissue elasticity in B6/C3H mice. <i>Bone</i> , 2007, 41, 1017-1024.	2.9	36
78	Assessment of Microelastic Properties of Bone Using Scanning Acoustic Microscopy: A Face-to-Face Comparison with Nanoindentation. <i>Japanese Journal of Applied Physics</i> , 2009, 48, 07GK01.	1.5	36
79	Multiresolution reconstruction in fan-beam tomography. <i>IEEE Transactions on Image Processing</i> , 2002, 11, 169-176.	9.8	35
80	Relationship between compressive properties of human os calcis cancellous bone and microarchitecture assessed from 2D and 3D synchrotron microtomography. <i>Bone</i> , 2005, 36, 340-351.	2.9	35
81	Micro-CT examinations of trabecular bone samples at different resolutions: 14, 7 and 2 micron level. <i>Technology and Health Care</i> , 1998, 6, 391-401.	1.2	34
82	The use of a two-dimensional Hilbert transform for Wigner analysis of 2-dimensional real signals. <i>Signal Processing</i> , 1990, 19, 205-220.	3.7	33
83	Cortical measurements of the tibia from high resolution peripheral quantitative computed tomography images: A comparison with synchrotron radiation micro-computed tomography. <i>Bone</i> , 2014, 63, 7-14.	2.9	33
84	In vivo imaging of bone micro-architecture in mice with 3D synchrotron radiation micro-tomography. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2005, 548, 247-252.	1.6	32
85	SEM and 3D synchrotron radiation micro-tomography in the study of bioceramic scaffolds for tissue-engineering applications. <i>Biotechnology and Bioengineering</i> , 2007, 97, 638-648.	3.3	32
86	Cardiac Cardiac computed tomography using a 3D + time ROI reconstruction method with spatial and temporal regularization. <i>Medical Physics</i> , 2014, 41, 021903.	3.0	32
87	X-Ray Synchrotron Radiation Pseudo-Holotomography as a New Imaging Technique to Investigate Angio- and Microvasculogenesis with No Usage of Contrast Agents. <i>Tissue Engineering - Part C: Methods</i> , 2009, 15, 425-430.	2.1	31
88	Non Destructive Characterization of Cortical Bone Micro-Damage by Nonlinear Resonant Ultrasound Spectroscopy. <i>PLoS ONE</i> , 2014, 9, e83599.	2.5	31
89	Anisotropic elastic properties of human femoral cortical bone and relationships with composition and microstructure in elderly. <i>Acta Biomaterialia</i> , 2019, 90, 254-266.	8.3	31
90	Segmentation of cancellous bone from high-resolution computed tomography images: influence on trabecular bone measurements. <i>IEEE Transactions on Medical Imaging</i> , 2002, 21, 354-362.	8.9	29

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91	Proton therapy monitoring by Compton imaging: influence of the large energy spectrum of the prompt- I^3 radiation. <i>Physics in Medicine and Biology</i> , 2016, 61, 3127-3146.	3.0	29
92	3D X-ray ultra-microscopy of bone tissue. <i>Osteoporosis International</i> , 2016, 27, 441-455.	3.1	29
93	Extraction of the 3D local orientation of myocytes in human cardiac tissue using X-ray phase-contrast micro-tomography and multi-scale analysis. <i>Medical Image Analysis</i> , 2017, 38, 117-132.	11.6	29
94	Evaluation of fetal bone structure and mineralization in IGF-I deficient mice using synchrotron radiation microtomography and Fourier transform infrared spectroscopy. <i>Bone</i> , 2007, 40, 160-168.	2.9	28
95	<title>X-ray optics and imaging with hard coherent synchrotron radiation</title> . , 1997, , .		27
96	Non-linear iterative phase retrieval based on Frechet derivative. <i>Optics Express</i> , 2011, 19, 22809.	3.4	27
97	On the elastic properties of mineralized turkey leg tendon tissue: multiscale model and experiment. <i>Biomechanics and Modeling in Mechanobiology</i> , 2014, 13, 1003-1023.	2.8	27
98	Assessment of the human bone lacuno-canalicular network at the nanoscale and impact of spatial resolution. <i>Scientific Reports</i> , 2020, 10, 4567.	3.3	27
99	How minute sooglossid frogs hear without a middle ear. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 15360-15364.	7.1	26
100	In Vitro Colonization of the Muscle Extracellular Matrix Components by Escherichia coli O157:H7: The Influence of Growth Medium, Temperature and pH on Initial Adhesion and Induction of Biofilm Formation by Collagens I and III. <i>PLoS ONE</i> , 2013, 8, e59386.	2.5	26
101	Characterizing microcrack orientation distribution functions in osteonal bone samples. <i>Journal of Microscopy</i> , 2016, 264, 268-281.	1.8	26
102	Strain rate influence on human cortical bone toughness: A comparative study of four paired anatomical sites. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2017, 71, 223-230.	3.1	26
103	Parallel-beam imaging at the ESRF beamline ID19: current status and plans for the future. <i>AIP Conference Proceedings</i> , 2010, , .	0.4	25
104	Time-scale analysis of high-resolution signal-averaged surface ECG using wavelet transformation. , 0, , .		24
105	Binary vascular reconstruction from a limited number of cone beam projections. <i>Medical Physics</i> , 1994, 21, 1839-1851.	3.0	24
106	Tomographic reconstruction using nonseparable wavelets. <i>IEEE Transactions on Image Processing</i> , 2000, 9, 1445-1450.	9.8	23
107	Evaluation of phase retrieval approaches in magnified X-ray phase nano computerized tomography applied to bone tissue. <i>Optics Express</i> , 2018, 26, 11110.	3.4	23
108	Motion Correction for Coronary Stent Reconstruction From Rotational X-ray Projection Sequences. <i>IEEE Transactions on Medical Imaging</i> , 2007, 26, 1412-1423.	8.9	22

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109	Regularized phase tomography enables study of mineralized and unmineralized tissue in porous bone scaffold. <i>Journal of Microscopy</i> , 2010, 238, 230-239.	1.8	22
110	Assessing osteocyte lacunar geometrical properties in human jaw bone on the submicron length scale using synchrotron radiation μ CT. <i>Journal of Microscopy</i> , 2014, 255, 158-168.	1.8	22
111	Priors for X-ray in-line phase tomography of heterogeneous objects. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2014, 372, 20130129.	3.4	22
112	Local topological analysis at the distal radius by HR-pQCT: Application to in vivo bone microarchitecture and fracture assessment in the OFELY study. <i>Bone</i> , 2012, 51, 362-368.	2.9	21
113	Evaluation of noise and blur effects with SIRT-FISTA-TV reconstruction algorithm: Application to fast environmental transmission electron tomography. <i>Ultramicroscopy</i> , 2018, 189, 109-123.	1.9	21
114	Intrinsic mechanical properties of trabecular calcaneus determined by finite-element models using 3D synchrotron microtomography. <i>Journal of Biomechanics</i> , 2007, 40, 2174-2183.	2.1	20
115	To what extent can cortical bone millimeter-scale elasticity be predicted by a two-phase composite model with variable porosity?. <i>Acta Biomaterialia</i> , 2015, 12, 207-215.	8.3	20
116	Relationships between human cortical bone toughness and collagen cross-links on paired anatomical locations. <i>Bone</i> , 2018, 112, 202-211.	2.9	20
117	3D micro structural analysis of human cortical bone in paired femoral diaphysis, femoral neck and radial diaphysis. <i>Journal of Structural Biology</i> , 2018, 204, 182-190.	2.8	20
118	Homogenization of cortical bone reveals that the organization and shape of pores marginally affect elasticity. <i>Journal of the Royal Society Interface</i> , 2019, 16, 20180911.	3.4	20
119	Equivalence between two-dimensional analytic and real signal Wigner distributions. <i>IEEE Transactions on Acoustics, Speech, and Signal Processing</i> , 1989, 37, 1631-1634.	2.0	19
120	A comprehensive study of the use of temporal moments in time-resolved diffuse optical tomography: part I. Theoretical material. <i>Physics in Medicine and Biology</i> , 2009, 54, 7089-7105.	3.0	19
121	Parallel image reconstruction on MIMD computers for three-dimensional cone-beam tomography. <i>Parallel Computing</i> , 1998, 24, 1461-1479.	2.1	18
122	Assessment of bone mineral content from 3-D synchrotron radiation microtomography images. <i>IEEE Transactions on Nuclear Science</i> , 2001, 48, 859-863.	2.0	18
123	Material Decomposition in Spectral CT Using Deep Learning: A Sim2Real Transfer Approach. <i>IEEE Access</i> , 2021, 9, 25632-25647.	4.2	18
124	Fourier-wavelet regularization of phase retrieval in x-ray in-line phase tomography. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2009, 26, 1876.	1.5	17
125	Simultaneous 3D Imaging of Bone and Vessel Microstructure in a Rat Model. <i>IEEE Transactions on Nuclear Science</i> , 2011, 58, 139-145.	2.0	17
126	Quantification of stiffness measurement errors in resonant ultrasound spectroscopy of human cortical bone. <i>Journal of the Acoustical Society of America</i> , 2017, 142, 2755-2765.	1.1	17

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127	Nonseparable wavelet-based cone-beam reconstruction in 3-d rotational angiography. IEEE Transactions on Medical Imaging, 2003, 22, 360-367.	8.9	16
128	Local plate/rod descriptors of 3D trabecular bone micro-CT images from medial axis topologic analysis. Medical Physics, 2010, 37, 4364-4376.	3.0	16
129	Broadband time-resolved multi-channel functional near-infrared spectroscopy system to monitor in vivo physiological changes of human brain activity. Applied Optics, 2018, 57, 6417.	1.8	16
130	Technical Note: Relative proton stopping power estimation from virtual monoenergetic images reconstructed from dual-layer computed tomography. Medical Physics, 2019, 46, 1821-1828.	3.0	16
131	QUANTIFICATION OF THE 3D MORPHOLOGY OF THE BONE CELL NETWORK FROM SYNCHROTRON MICRO-CT IMAGES. Image Analysis and Stereology, 2014, 33, 157.	0.9	15
132	Bone canalicular network segmentation in 3D nano-CT images through geodesic voting and image tessellation. Physics in Medicine and Biology, 2014, 59, 2155-2171.	3.0	15
133	Iterative choice of the optimal regularization parameter in TV image restoration. Inverse Problems and Imaging, 2015, 9, 1171-1191.	1.1	15
134	Virtual monoenergetic images from photon-counting spectral computed tomography to assess knee osteoarthritis. European Radiology Experimental, 2022, 6, 10.	3.4	15
135	Absorption and phase retrieval with Tikhonov and joint sparsity regularizations. Inverse Problems and Imaging, 2013, 7, 267-282.	1.1	14
136	Multiscale and multimodality computed tomography for cortical bone analysis. Physics in Medicine and Biology, 2016, 61, 8553-8576.	3.0	13
137	3D display of high resolution vertebral structure images. Computerized Medical Imaging and Graphics, 1993, 17, 251-256.	5.8	12
138	Effect of turbulent integral length scale on heat transfer around a circular cylinder placed cross to an air flow. Experimental Thermal and Fluid Science, 2002, 26, 455-460.	2.7	12
139	Analysis of Cone-Beam Artifacts in off-Centered Circular CT for Four Reconstruction Methods. International Journal of Biomedical Imaging, 2006, 2006, 1-8.	3.9	12
140	Assessment of bone structure and acoustic impedance in C3H and BL6 mice using high resolution scanning acoustic microscopy. Ultrasonics, 2006, 44, e1307-e1311.	3.9	12
141	A comprehensive study of the use of temporal moments in time-resolved diffuse optical tomography: part II. Three-dimensional reconstructions. Physics in Medicine and Biology, 2009, 54, 7107-7119.	3.0	12
142	Nonlinear approaches for the single-distance phase retrieval problem involving regularizations with sparsity constraints. Applied Optics, 2013, 52, 3977.	1.8	12
143	Cortical bone elasticity measured by resonant ultrasound spectroscopy is not altered by defatting and synchrotron X-ray imaging. Journal of the Mechanical Behavior of Biomedical Materials, 2017, 72, 241-245.	3.1	12
144	Nonlinear material decomposition using a regularized iterative scheme based on the Bregman distance. Inverse Problems, 2018, 34, 124003.	2.0	12

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145	A Semi Nonnegative Matrix Factorization Technique for Pattern Generalization in Single-Pixel Imaging. IEEE Transactions on Computational Imaging, 2018, 4, 284-294.	4.4	12
146	3D analysis of the osteonal and interstitial tissue in human radii cortical bone. Bone, 2019, 127, 526-536.	2.9	12
147	Vesselness-guided variational segmentation of cellular networks from 3D micro-CT. , 2010, , .		11
148	Extracellular matrix deposition and scaffold biodegradation in an in vitro three-dimensional model of bone by X-ray computed microtomography. Journal of Tissue Engineering and Regenerative Medicine, 2012, 8, n/a-n/a.	2.7	11
149	Adaptive filtering for enhancement of the osteocyte cell network in 3D microtomography images. Irbm, 2013, 34, 48-52.	5.6	11
150	Distribution of mesoscale elastic properties and mass density in the human femoral shaft. Connective Tissue Research, 2015, 56, 120-132.	2.3	11
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152	Adaptive Remodeling of Trabecular Bone Core Cultured in 3-D Bioreactor Providing Cyclic Loading: An Acoustic Microscopy Study. Ultrasound in Medicine and Biology, 2010, 36, 999-1007.	1.5	10
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