

Eric E Bennett

List of Publications by Year in descending order

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33
papers

1,140
citations

567281

15
h-index

477307

29
g-index

33
all docs

33
docs citations

33
times ranked

999
citing authors

#	ARTICLE	IF	CITATIONS
1	Interpretation of dark-field contrast and particle-size selectivity in grating interferometers. <i>Applied Optics</i> , 2011, 50, 4310.	2.1	153
2	Single-shot x-ray differential phase-contrast and diffraction imaging using two-dimensional transmission gratings. <i>Optics Letters</i> , 2010, 35, 1932.	3.3	151
3	Fourier X-ray Scattering Radiography Yields Bone Structural Information. <i>Radiology</i> , 2009, 251, 910-918.	7.3	119
4	Spatial Harmonic Imaging of X-ray Scattering—Initial Results. <i>IEEE Transactions on Medical Imaging</i> , 2008, 27, 997-1002.	8.9	107
5	A universal moiré effect and application in X-ray phase-contrast imaging. <i>Nature Physics</i> , 2016, 12, 830-834.	16.7	99
6	A grating-based single-shot x-ray phase contrast and diffraction method for <i>in vivo</i> imaging. <i>Medical Physics</i> , 2010, 37, 6047-6054.	3.0	93
7	In vivo study of microcirculation in canine myocardium using the IVIM method. <i>Magnetic Resonance in Medicine</i> , 2003, 50, 531-540.	3.0	88
8	Motionless phase stepping in X-ray phase contrast imaging with a compact source. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 19268-19272.	7.1	44
9	Subnanoradian X-ray phase-contrast imaging using a far-field interferometer of nanometric phase gratings. <i>Nature Communications</i> , 2013, 4, 2659.	12.8	38
10	Magnetic resonance imaging assessment of myocardial elastic modulus and viscosity using displacement imaging and phase-contrast velocity mapping. <i>Magnetic Resonance in Medicine</i> , 2005, 54, 538-548.	3.0	36
11	Circumferential strain in the wall of the common carotid artery: Comparing displacement-encoded and cine MRI in volunteers. <i>Magnetic Resonance in Medicine</i> , 2008, 60, 8-13.	3.0	33
12	Adaptive Postprocessing Techniques for Myocardial Tissue Tracking with Displacement-encoded MR Imaging. <i>Radiology</i> , 2008, 246, 229-240.	7.3	29
13	Selective imaging of nano-particle contrast agents by a single-shot x-ray diffraction technique. <i>Optics Express</i> , 2010, 18, 13271.	3.4	28
14	Enhancing Tabletop X-Ray Phase Contrast Imaging with Nano-Fabrication. <i>Scientific Reports</i> , 2015, 5, 13581.	3.3	26
15	Fabrication of 200 nm period centimeter area hard x-ray absorption gratings by multilayer deposition. <i>Journal of Micromechanics and Microengineering</i> , 2012, 22, 105007.	2.6	22
16	Flexible Retrospective Phase Stepping in X-Ray Scatter Correction and Phase Contrast Imaging Using Structured Illumination. <i>PLoS ONE</i> , 2013, 8, e78276.	2.5	11
17	Theory of oblique and grazing incidence Talbot-Lau interferometers and demonstration in a compact source x-ray reflective interferometer. <i>Optics Express</i> , 2011, 19, 25093.	3.4	9
18	Grazing angle Mach-Zehnder interferometer using reflective phase gratings and a polychromatic, un-collimated light source. <i>Optics Express</i> , 2010, 18, 27481.	3.4	8

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19	Simultaneous myocardial strain and dark-field blood perfusion imaging using a displacement-encoded MRI pulse sequence. <i>Magnetic Resonance in Medicine</i> , 2010, 64, 787-798.	3.0	7
20	Multilayer-coated micro-grating array for x-ray phase-contrast imaging. , 2011, , .		5
21	Performance of low-cost X-ray area detectors with consumer digital cameras. <i>Journal of Instrumentation</i> , 2015, 10, T05005-T05005.	1.2	5
22	Motionless electromagnetic phase stepping versus mechanical phase stepping in x-ray phase-contrast imaging with a compact source. <i>Physics in Medicine and Biology</i> , 2015, 60, 3031-3043.	3.0	5
23	Nano-printed miniature compound refractive lens for desktop hard x-ray microscopy. <i>PLoS ONE</i> , 2018, 13, e0203319.	2.5	5
24	X-ray microtomosynthesis of unstained pathology tissue samples. <i>Journal of Microscopy</i> , 2021, 283, 9-20.	1.8	5
25	Electrodeposition of Gold to Conformally Fill High-Aspect-Ratio Nanometric Silicon Grating Trenches: A Comparison of Pulsed and Direct Current Protocols. <i>Journal of Surface Engineered Materials and Advanced Technology</i> , 2015, 05, 207-213.	0.2	4
26	Correlative Detection of Isolated Single and Multi-Cellular Calcifications in the Internal Elastic Lamina of Human Coronary Artery Samples. <i>Scientific Reports</i> , 2018, 8, 10978.	3.3	4
27	Efficient Decoding of 2D Structured Illumination with Linear Phase Stepping in X-Ray Phase Contrast and Dark-Field Imaging. <i>PLoS ONE</i> , 2014, 9, e87127.	2.5	3
28	1082 Free-breathing single-shot DENSE myocardial strain imaging using deformable registration. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2008, 10, .	3.3	1
29	Geometric calibration and correction for a lens-coupled detector in x-ray phase-contrast imaging. <i>Journal of Medical Imaging</i> , 2017, 4, 013507.	1.5	1
30	Regional Ultrahigh-Resolution Rescan in a Clinical Whole-Body CT Scanner Using a Contact Detector Insert. <i>Tomography</i> , 2019, 5, 233-238.	1.8	1
31	IVIM-based MRI method to study the microcirculation in the heart: preliminary results in dogs. , 2003, , .		0
32	3D diffraction tomography for visualization of contrast media. , 2011, , .		0
33	Towards nanometer period gratings for hard x-ray phase-contrast imaging. , 2012, , .		0