

Dean Chapman

List of Publications by Citations

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137
papers

3,622
citations

27
h-index

58
g-index

148
ext. papers

4,094
ext. citations

2.9
avg, IF

4.99
L-index

| # | Paper | IF | Citations |
|-----|---|------|-----------|
| 137 | Diffraction enhanced x-ray imaging. <i>Physics in Medicine and Biology</i> , 1997 , 42, 2015-25 | 3.8 | 901 |
| 136 | Multiple-image radiography. <i>Physics in Medicine and Biology</i> , 2003 , 48, 3875-95 | 3.8 | 180 |
| 135 | Human breast cancer specimens: diffraction-enhanced imaging with histologic correlation--improved conspicuity of lesion detail compared with digital radiography. <i>Radiology</i> , 2000 , 214, 895-901 | 20.5 | 174 |
| 134 | Diffraction-enhanced X-ray imaging of articular cartilage. <i>Osteoarthritis and Cartilage</i> , 2002 , 10, 163-71 | 6.2 | 134 |
| 133 | Implementation of diffraction-enhanced imaging experiments: at the NSLS and APS. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2000 , 450, 556-567 | 1.2 | 129 |
| 132 | UV-Assisted 3D Bioprinting of Nanoreinforced Hybrid Cardiac Patch for Myocardial Tissue Engineering. <i>Tissue Engineering - Part C: Methods</i> , 2018 , 24, 74-88 | 2.9 | 124 |
| 131 | Mechanical and Biological Effects of Ultrasound: A Review of Present Knowledge. <i>Ultrasound in Medicine and Biology</i> , 2017 , 43, 1085-1104 | 3.5 | 117 |
| 130 | Extraction of extinction, refraction and absorption properties in diffraction enhanced imaging. <i>Journal Physics D: Applied Physics</i> , 2003 , 36, 2152-2156 | 3 | 103 |
| 129 | A physical model of multiple-image radiography. <i>Physics in Medicine and Biology</i> , 2006 , 51, 221-36 | 3.8 | 81 |
| 128 | Beamlines of the biomedical imaging and therapy facility at the Canadian light source Part 1. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2007 , 582, 73-76 | 1.2 | 75 |
| 127 | Design and implementation of a compact low-dose diffraction enhanced medical imaging system. <i>Academic Radiology</i> , 2009 , 16, 911-7 | 4.3 | 72 |
| 126 | An Introduction to High Intensity Focused Ultrasound: Systematic Review on Principles, Devices, and Clinical Applications. <i>Journal of Clinical Medicine</i> , 2020 , 9, | 5.1 | 71 |
| 125 | Spatially resolved measurement of high doses in microbeam radiation therapy using samarium doped fluorophosphate glasses. <i>Applied Physics Letters</i> , 2011 , 99, 121105 | 3.4 | 69 |
| 124 | First operation of the medical research facility at the NSLS for coronary angiography. <i>Review of Scientific Instruments</i> , 1992 , 63, 625-628 | 1.7 | 68 |
| 123 | Mammographic phantom studies with synchrotron radiation. <i>Radiology</i> , 1996 , 200, 659-63 | 20.5 | 61 |
| 122 | Samarium-Doped Oxyfluoride Glass-Ceramic as a New Fast Erasable Dosimetric Detector Material for Microbeam Radiation Cancer Therapy Applications at the Canadian Synchrotron. <i>Journal of the American Ceramic Society</i> , 2014 , 97, 2147-2153 | 3.8 | 50 |
| 121 | A single crystal bent Laue monochromator for coronary angiography. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1993 , 336, 304-309 | 1.2 | 49 |

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| 120 | Diffraction enhanced imaging contrast mechanisms in breast cancer specimens. <i>Medical Physics</i> , 2002 , 29, 2216-21 | 4.4 | 47 |
| 119 | Valency conversion of samarium ions under high dose synchrotron generated X-ray radiation. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2011 , 8, 2822-2825 | | 42 |
| 118 | Medical applications of diffraction enhanced imaging. <i>Breast Disease</i> , 1998 , 10, 197-207 | 1.6 | 40 |
| 117 | X-ray induced Sm ³⁺ to Sm ²⁺ conversion in fluorophosphate and fluoroaluminate glasses for the monitoring of high-doses in microbeam radiation therapy. <i>Journal of Applied Physics</i> , 2012 , 112, 073108 | 2.5 | 38 |
| 116 | The design and application of an in-laboratory diffraction-enhanced x-ray imaging instrument. <i>Review of Scientific Instruments</i> , 2009 , 80, 093702 | 1.7 | 38 |
| 115 | Beamlines of the biomedical imaging and therapy facility at the Canadian light source Part 3. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2015 , 775, 1-4 | 1.2 | 36 |
| 114 | Radiography of rabbit articular cartilage with diffraction-enhanced imaging. <i>The Anatomical Record</i> , 2003 , 272, 392-7 | | 36 |
| 113 | Mammography imaging studies using a Laue crystal analyzer. <i>Review of Scientific Instruments</i> , 1996 , 67, 3360-3360 | 1.7 | 36 |
| 112 | A median-Gaussian filtering framework for Moiré pattern noise removal from X-ray microscopy image. <i>Micron</i> , 2012 , 43, 170-6 | 2.3 | 35 |
| 111 | Low-dose phase-based X-ray imaging techniques for in situ soft tissue engineering assessments. <i>Biomaterials</i> , 2016 , 82, 151-67 | 15.6 | 27 |
| 110 | X-ray diffraction enhanced imaging as a novel method to visualize low-density scaffolds in soft tissue engineering. <i>Tissue Engineering - Part C: Methods</i> , 2011 , 17, 1071-80 | 2.9 | 27 |
| 109 | Recent advances in synchrotron radiation medical research. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2005 , 543, 288-296 | 1.2 | 27 |
| 108 | The superconducting wiggler beamport at the National Synchrotron Light Source. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1988 , 266, 226-233 | 1.2 | 26 |
| 107 | Ultrasound Cavitation/Microbubble Detection and Medical Applications. <i>Journal of Medical and Biological Engineering</i> , 2019 , 39, 259-276 | 2.2 | 25 |
| 106 | Spectral K-edge subtraction imaging. <i>Physics in Medicine and Biology</i> , 2014 , 59, 2485-503 | 3.8 | 24 |
| 105 | <i>Pseudomonas aeruginosa</i> triggers CFTR-mediated airway surface liquid secretion in swine trachea. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 12930-5 | 11.5 | 24 |
| 104 | Bioprinting Pattern-Dependent Electrical/Mechanical Behavior of Cardiac Alginate Implants: Characterization and Ex Vivo Phase-Contrast Microtomography Assessment. <i>Tissue Engineering - Part C: Methods</i> , 2017 , 23, 548-564 | 2.9 | 23 |
| 103 | Bronchial imaging in humans using xenon K-edge dichromography. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1998 , 406, 473-478 | 1.2 | 23 |

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| 102 | Computation of mass-density images from x-ray refraction-angle images. <i>Physics in Medicine and Biology</i> , 2006 , 51, 1769-78 | 3.8 | 23 |
| 101 | Biochemical and physiological weaknesses associated with the pathogenesis of femoral bone degeneration in broiler chickens. <i>Avian Pathology</i> , 2011 , 40, 639-50 | 2.4 | 22 |
| 100 | Monochromatic energy-subtraction radiography using a rotating anode source and a bent Laue monochromator. <i>Physics in Medicine and Biology</i> , 1997 , 42, 1751-62 | 3.8 | 21 |
| 99 | pepo: A program for the calculation of the reflectivity of cylindrically bent Laue crystal monochromators. <i>Review of Scientific Instruments</i> , 1995 , 66, 2220-2223 | 1.7 | 21 |
| 98 | PHOTON: A program for synchrotron radiation dose calculations. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1988 , 266, 191-194 | 1.2 | 20 |
| 97 | Venous synchrotron coronary angiography. <i>Lancet, The</i> , 1991 , 337, 360 | 4.0 | 19 |
| 96 | Cystic fibrosis swine fail to secrete airway surface liquid in response to inhalation of pathogens. <i>Nature Communications</i> , 2017 , 8, 786 | 17.4 | 18 |
| 95 | Mass density images from the diffraction enhanced imaging technique. <i>Medical Physics</i> , 2005 , 32, 549-524 | 4.4 | 18 |
| 94 | The concept of spatial frequency depending DQE and its application to a comparison of two detectors used in transvenous coronary angiography. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1997 , 398, 351-367 | 1.2 | 16 |
| 93 | Non-destructive diffraction enhanced imaging of seeds. <i>Journal of Experimental Botany</i> , 2007 , 58, 2513-23 | 23 | 16 |
| 92 | Ring artifacts removal from synchrotron CT image slices. <i>Journal of Instrumentation</i> , 2013 , 8, C06006-C06006 | | 15 |
| 91 | Beamlines of the Biomedical Imaging and Therapy Facility at the Canadian Light Source - Part 2. <i>Journal of Physics: Conference Series</i> , 2013 , 425, 072013 | 0.3 | 15 |
| 90 | Diffraction enhanced imaging applied to materials science and medicine. <i>Synchrotron Radiation News</i> , 1998 , 11, 4-11 | 0.6 | 15 |
| 89 | Performance evaluation of a bent Laue monochromator. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1990 , 297, 268-274 | 1.2 | 14 |
| 88 | Diffraction-enhanced imaging of the rat spine. <i>Canadian Association of Radiologists Journal</i> , 2006 , 57, 204-10 | 3.9 | 13 |
| 87 | Phase-preserving beam expander for biomedical X-ray imaging. <i>Journal of Synchrotron Radiation</i> , 2015 , 22, 801-6 | 2.4 | 12 |
| 86 | Diffraction enhanced X-ray imaging of the distal radius: a novel approach for visualization of trabecular bone architecture. <i>Canadian Association of Radiologists Journal</i> , 2011 , 62, 251-5 | 3.9 | 12 |
| 85 | Application of absorption and refraction matching techniques for diffraction enhanced imaging. <i>Review of Scientific Instruments</i> , 2002 , 73, 1657-1659 | 1.7 | 11 |

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| 84 | Multiple energy synchrotron biomedical imaging system. <i>Physics in Medicine and Biology</i> , 2016 , 61, 8180-8198 | 3.8 | 10 |
| 83 | Biodistribution of strontium and barium in the developing and mature skeleton of rats. <i>Journal of Bone and Mineral Metabolism</i> , 2019 , 37, 385-398 | 2.9 | 10 |
| 82 | A High-Energy Monochromatic Laue (MonoLaue) X-ray Diffuse Scattering Study of KMnF3 using an Image Plate. <i>Journal of Applied Crystallography</i> , 1997 , 30, 16-20 | 3.8 | 10 |
| 81 | Diffraction-enhanced imaging of a porcine eye. <i>Canadian Journal of Ophthalmology</i> , 2007 , 42, 731-3 | 1.4 | 10 |
| 80 | A novel method of bending crystals to log spiral shape. <i>Review of Scientific Instruments</i> , 2002 , 73, 1534-1536 | 1.3 | 9 |
| 79 | Three-dimensional labeling of newly formed bone using synchrotron radiation barium K-edge subtraction imaging. <i>Physics in Medicine and Biology</i> , 2016 , 61, 5077-5088 | 3.8 | 8 |
| 78 | Application of analyzer based X-ray imaging technique for detection of ultrasound induced cavitation bubbles from a physical therapy unit. <i>BioMedical Engineering OnLine</i> , 2015 , 14, 91 | 4.1 | 8 |
| 77 | X-ray optics for emission line X-ray source diffraction enhanced systems. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2006 , 562, 461-467 | 1.2 | 8 |
| 76 | Preliminary investigation of a multiple-image radiography method | | 8 |
| 75 | Development of a bent Laue beam-expanding double-crystal monochromator for biomedical X-ray imaging. <i>Journal of Synchrotron Radiation</i> , 2014 , 21, 479-83 | 2.4 | 8 |
| 74 | Nebulized hypertonic saline triggers nervous system-mediated active liquid secretion in cystic fibrosis swine trachea. <i>Scientific Reports</i> , 2019 , 9, 540 | 4.9 | 7 |
| 73 | Spectral K-edge subtraction imaging of experimental non-radioactive barium uptake in bone. <i>Physica Medica</i> , 2016 , 32, 1765-1770 | 2.7 | 7 |
| 72 | Compositional images from the Diffraction Enhanced Imaging technique. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2007 , 572, 953-957 | 1.2 | 7 |
| 71 | Alternative method of diffraction-enhanced imaging. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2008 , 584, 424-427 ^{1.2} | 1.2 | 7 |
| 70 | Effects of spatial resolution and spectral purity on transvenous coronary angiography images. <i>Review of Scientific Instruments</i> , 1995 , 66, 1329-1331 | 1.7 | 7 |
| 69 | A 1200 element detector system for synchrotron-based coronary angiography. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1994 , 347, 545-552 | 1.2 | 7 |
| 68 | Test of a bent laue double crystal fixed exit monochromator. <i>Synchrotron Radiation News</i> , 1994 , 7, 8-11 | 0.6 | 7 |
| 67 | Visualization of ultrasound induced cavitation bubbles using the synchrotron x-ray Analyzer Based Imaging technique. <i>Physics in Medicine and Biology</i> , 2014 , 59, 7541-55 | 3.8 | 6 |

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| 66 | Respiratory-gated KES imaging of a rat model of acute lung injury at the Canadian Light Source. <i>Journal of Synchrotron Radiation</i> , 2017 , 24, 679-685 | 2.4 | 6 |
| 65 | Potential of propagation-based synchrotron X-ray phase-contrast computed tomography for cardiac tissue engineering. <i>Journal of Synchrotron Radiation</i> , 2017 , 24, 842-853 | 2.4 | 5 |
| 64 | Development of an x-ray prism for analyzer based imaging systems. <i>Review of Scientific Instruments</i> , 2010 , 81, 085108 | 1.7 | 5 |
| 63 | Producing parallel x rays with a bent-crystal monochromator and an x-ray tube. <i>Medical Physics</i> , 2001 , 28, 1931-6 | 4.4 | 5 |
| 62 | Diffraction enhanced imaging of soft tissues. <i>Synchrotron Radiation News</i> , 2002 , 15, 27-34 | 0.6 | 5 |
| 61 | NLSL transvenous coronary angiography beamline upgrade and advanced technology initiatives. <i>Review of Scientific Instruments</i> , 1995 , 66, 1357-1360 | 1.7 | 5 |
| 60 | Characterization of a bent Laue double-crystal beam-expanding monochromator. <i>Journal of Synchrotron Radiation</i> , 2017 , 24, 1146-1151 | 2.4 | 5 |
| 59 | A phase-space beam position monitor for synchrotron radiation. <i>Journal of Synchrotron Radiation</i> , 2015 , 22, 946-55 | 2.4 | 5 |
| 58 | Biomedical Imaging Using Synchrotron Radiation: Experience at the Biomedical Imaging and Therapy (BMIT) Facility at the Canadian Light Source. <i>Synchrotron Radiation News</i> , 2015 , 28, 16-23 | 0.6 | 4 |
| 57 | Set of measurements for alignment of beamline components. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2011 , 649, 225-227 | 1.2 | 4 |
| 56 | A Brief Review of Visualization Techniques for Nerve Tissue Engineering Applications. <i>Journal of Biomimetics, Biomaterials, and Tissue Engineering</i> , 2010 , 7, 81-99 | | 4 |
| 55 | A device for selecting and rejecting X-ray harmonics in synchrotron radiation beams. <i>Journal of Synchrotron Radiation</i> , 2004 , 11, 393-8 | 2.4 | 4 |
| 54 | A preliminary study of multiple-image computed tomography 2004 , | | 4 |
| 53 | Synchrotron supported DEI/KES of a brain tumor in an animal model: The search for a microimaging modality. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2005 , 548, 106-110 | 1.2 | 4 |
| 52 | Absorption edge subtraction imaging for volumetric measurement in an animal model of malignant brain tumor. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2005 , 548, 88-93 | 1.2 | 4 |
| 51 | Optimization of a phase-space beam position and size monitor for low-emittance light sources. <i>Journal of Synchrotron Radiation</i> , 2019 , 26, 1863-1871 | 2.4 | 4 |
| 50 | A real-time phase-space beam emittance monitoring system. <i>Journal of Synchrotron Radiation</i> , 2019 , 26, 1213-1219 | 2.4 | 4 |
| 49 | BMIT facility at the Canadian Light Source: Advances in X-ray phase-sensitive imaging. <i>Physica Medica</i> , 2016 , 32, 1753-1758 | 2.7 | 4 |

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| 48 | Wide field imaging energy dispersive X-ray absorption spectroscopy. <i>Scientific Reports</i> , 2019 , 9, 17734 | 4.9 | 4 |
| 47 | Development of a combined K-edge subtraction and fluorescence subtraction imaging system for small animals. <i>Review of Scientific Instruments</i> , 2008 , 79, 085102 | 1.7 | 3 |
| 46 | Fabrication of a small animal restraint for synchrotron biomedical imaging using a rapid prototyper. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2007 , 582, 229-232 | 1.2 | 3 |
| 45 | Radiological considerations for POE-1 photon shutters, collimators and beam stops of the Biomedical Imaging and Therapy beamline at the Canadian Light Source. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2007 , 582, 229-232 | 1.2 | 3 |
| 44 | Comparison of iodine K-edge subtraction and fluorescence subtraction imaging in an animal system. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2008 , 594, 283-291 | 1.2 | 3 |
| 43 | Single-exposure simultaneous diffraction-enhanced imaging. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2002 , 492, 236-240 | 1.2 | 3 |
| 42 | | | 3 |
| 41 | Diffraction-Enhanced Computed Tomographic Imaging of Growing Piglet Joints by Using a Synchrotron Light Source. <i>Comparative Medicine</i> , 2015 , 65, 342-7 | 1.6 | 3 |
| 40 | An energy dispersive bent Laue monochromator for K-edge subtraction imaging 2016 , | | 3 |
| 39 | Multiple image x-radiography for functional lung imaging. <i>Physics in Medicine and Biology</i> , 2017 , 63, 015009 | 1.9 | 3 |
| 38 | X-ray induced Sm-ion valence conversion in Sm-ion implanted fluoroaluminate glasses towards high-dose radiation measurement. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 16740-16746 | 2.1 | 2 |
| 37 | Multiple Energy Synchrotron Biomedical Imaging System- Preliminary Results. <i>IFMBE Proceedings</i> , 2015 , 248-251 | 0.2 | 2 |
| 36 | Radiation shielding study against gas bremsstrahlung for the BMIT POE3 at the Canadian light source. <i>Radiation Physics and Chemistry</i> , 2011 , 80, 716-722 | 2.5 | 2 |
| 35 | Probing Alzheimer's Disease Pathology and Early Detection at the NSLS with Infrared, XRF, and DEI. <i>Synchrotron Radiation News</i> , 2008 , 21, 11-16 | 0.6 | 2 |
| 34 | Multiple-image computed tomography | | 2 |
| 33 | Diffraction enhanced x-ray imaging of articular cartilage 2002 , 351-354 | | 2 |
| 32 | Application of the Multiple Image Radiography Method to Breast Imaging. <i>Lecture Notes in Computer Science</i> , 2006 , 289-298 | 0.9 | 2 |
| 31 | Supplemental shielding of BMIT SOE-1 at the Canadian Light Source. <i>Radiation Physics and Chemistry</i> , 2014 , 100, 8-12 | 2.5 | 1 |

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| 30 | Diffraction-enhanced Synchrotron Imaging of Bovine Ovaries Ex Vivo. <i>Journal of Medical Imaging and Radiation Sciences</i> , 2014 , 45, 307-315 | 1.4 | 1 |
| 29 | Understanding refraction contrast using a comparison of absorption and refraction computed tomographic techniques. <i>Journal of Instrumentation</i> , 2013 , 8, C05004-C05004 | 1 | 1 |
| 28 | A Novel Analyzer Control System for Diffraction Enhanced Imaging. <i>Journal of Physics: Conference Series</i> , 2013 , 425, 022003 | 0.3 | 1 |
| 27 | Preliminary Bone Imaging on 05B1-1 Beamline at the Canadian Light Source: Exploration of Diffraction Enhanced Imaging. <i>Synchrotron Radiation News</i> , 2011 , 24, 13-18 | 0.6 | 1 |
| 26 | Crystal tilt error and its correction in diffraction enhanced imaging system. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2007 , 572, 961-970 | 1.2 | 1 |
| 25 | Focusing and energy dispersion properties of a cylindrically bent asymmetric Laue crystal 2019 , | | 1 |
| 24 | Source size measurement options for low-emittance light sources. <i>Physical Review Accelerators and Beams</i> , 2020 , 23, | 1.8 | 1 |
| 23 | Application of a phase space beam position and size monitor for synchrotron radiation source characterization. <i>Physical Review Accelerators and Beams</i> , 2019 , 22, | 1.8 | 1 |
| 22 | Developing a Microbubble-Based Contrast Agent for Synchrotron In-Line Phase Contrast Imaging. <i>IEEE Transactions on Biomedical Engineering</i> , 2021 , 68, 1527-1535 | 5 | 1 |
| 21 | 25+2 poles, 4.3 T wiggler at BMIT 17 years operational experience 2016 , | | 1 |
| 20 | Data of low-dose phase-based X-ray imaging for in situ soft tissue engineering assessments. <i>Data in Brief</i> , 2016 , 6, 644-51 | 1.2 | 1 |
| 19 | Bent Laue crystal anatomy: new insights into focusing and energy-dispersion properties. <i>Journal of Applied Crystallography</i> , 2021 , 54, 409-426 | 3.8 | 1 |
| 18 | Human factors design for the BMIT biomedical beamlines. <i>Journal of Physics: Conference Series</i> , 2013 , 425, 022005 | 0.3 | 0 |
| 17 | Synchrotron radiation shielding design and ICRP radiological protection quantities. <i>Journal of Radiological Protection</i> , 2015 , 35, 383-90 | 1.2 | |
| 16 | 4 Years of X-ray Imaging at 05B1-1 Beamline at BMIT. <i>IFMBE Proceedings</i> , 2015 , 162-165 | 0.2 | |
| 15 | Small and Ultra-Small Angle X-Ray Scattering Contrast Obtained With a Synchrotron-Based ShackHartmann Imaging System. <i>IEEE Transactions on Nuclear Science</i> , 2015 , 62, 2031-2035 | 1.7 | |
| 14 | A novel beam width doubling double crystal monochromator -some preliminary findings. <i>Journal of Physics: Conference Series</i> , 2013 , 425, 052010 | 0.3 | |
| 13 | Diffraction enhanced imaging computed tomography (DEI-CT) at the BMIT facility at the Canadian Light Source. <i>Journal of Instrumentation</i> , 2013 , 8, C08002-C08002 | 1 | |

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11 Field flatteners fabricated with a rapid prototyper for K-edge subtraction imaging of small animals. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2008**, 588, 442-447 1.2

10 Progress in multiple-image radiography **2006**, 6065, 256

9 X-ray Spectral Imaging Program: XSIP. *Journal of Synchrotron Radiation*, **2020**, 27, 1734-1740 2.4

8 Po-Thur Eve General-25: Development of a Tissue Sample Analysis System Using Diffraction Enhanced Imaging and Small and Wide Angle Scattering. *Medical Physics*, **2006**, 33, 2665-2665 4.4

7 High-power-load DCLM monochromator for a computed tomography program at BMIT at energies of 25-150 keV. *Journal of Synchrotron Radiation*, **2018**, 25, 1548-1555 2.4

6 Design of a mouse restraint for synchrotron-based computed tomography imaging. *Journal of Synchrotron Radiation*, **2015**, 22, 1297-300 2.4

5 Measuring the criticality of the λ magic conditions for a beam-expanding monochromator. *Journal of Synchrotron Radiation*, **2016**, 23, 1498-1500 2.4

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3 Stable Expression of the Sodium Iodide Symporter (NIS) in Metastatic Cancer Cells: A Novel Imaging Tool. *FASEB Journal*, **2013**, 27, 1145.3 0.9

2 A monochromatic x-ray irradiation system for in vitro studies at synchrotron beamlines. *Biomedical Physics and Engineering Express*, **2016**, 2, 055001 1.5

1 Crossover artifact in X-ray focusing imaging systems: K-edge subtraction imaging. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2018**, 910, 26-34 1.2