

Luc M Bidaut

List of Publications by Year in descending order

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84
papers

5,286
citations

147566

31
h-index

110170

64
g-index

87
all docs

87
docs citations

87
times ranked

7292
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-------|-----------|
| 1 | The Lung Image Database Consortium (LIDC) and Image Database Resource Initiative (IDRI): A Completed Reference Database of Lung Nodules on CT Scans. <i>Medical Physics</i> , 2011, 38, 915-931. | 1.6 | 1,659 |
| 2 | Randomized Double-Blind Placebo-Controlled Trial of Bevacizumab Therapy for Radiation Necrosis of the Central Nervous System. <i>International Journal of Radiation Oncology Biology Physics</i> , 2011, 79, 1487-1495. | 0.4 | 611 |
| 3 | Inflammatory Breast Cancer: The Disease, the Biology, the Treatment. <i>Ca-A Cancer Journal for Clinicians</i> , 2010, 60, 351-375. | 157.7 | 298 |
| 4 | Dynamic ventilation imaging from four-dimensional computed tomography. <i>Physics in Medicine and Biology</i> , 2006, 51, 777-791. | 1.6 | 206 |
| 5 | Breast Cancer Metastasis: Challenges and Opportunities. <i>Cancer Research</i> , 2009, 69, 4951-4953. | 0.4 | 202 |
| 6 | Relationships Among Body Mass Index, Longitudinal Body Composition Alterations, and Survival in Patients With Locally Advanced Pancreatic Cancer Receiving Chemoradiation: A Pilot Study. <i>Journal of Pain and Symptom Management</i> , 2012, 44, 181-191. | 0.6 | 153 |
| 7 | Are Distributed Ledger Technologies the panacea for food traceability?. <i>Global Food Security</i> , 2019, 20, 145-149. | 4.0 | 135 |
| 8 | Validation of GATE Monte Carlo simulations of the GE Advance/Discovery LS PET scanners. <i>Medical Physics</i> , 2005, 33, 198-208. | 1.6 | 119 |
| 9 | Brain hypometabolism of glucose in anorexia nervosa: A PET scan study. <i>Biological Psychiatry</i> , 1995, 37, 161-169. | 0.7 | 106 |
| 10 | Use of modern imaging methods to facilitate trials of metastasis-directed therapy for oligometastatic disease in prostate cancer: a consensus recommendation from the EORTC Imaging Group. <i>Lancet Oncology</i> , 2018, 19, e534-e545. | 5.1 | 98 |
| 11 | Transrectal quantitative shear wave elastography in the detection and characterisation of prostate cancer. <i>Surgical Endoscopy and Other Interventional Techniques</i> , 2013, 27, 3280-3287. | 1.3 | 95 |
| 12 | Integrated Pharmacodynamic Analysis Identifies Two Metabolic Adaption Pathways to Metformin in Breast Cancer. <i>Cell Metabolism</i> , 2018, 28, 679-688.e4. | 7.2 | 92 |
| 13 | Reversible striatal hypermetabolism in a case of sydenham's chorea. <i>Movement Disorders</i> , 1993, 8, 355-358. | 2.2 | 86 |
| 14 | Human CD34 ⁺ Cells in Experimental Myocardial Infarction. <i>Circulation Research</i> , 2010, 106, 1904-1911. | 2.0 | 80 |
| 15 | Midfacial Reconstruction Using Virtual Planning, Rapid Prototype Modeling, and Stereotactic Navigation. <i>Plastic and Reconstructive Surgery</i> , 2010, 126, 2002-2006. | 0.7 | 77 |
| 16 | Translational Medicine definition by the European Society for Translational Medicine. <i>European Journal of Molecular and Clinical Medicine</i> , 2017, 2, 86. | 0.5 | 75 |
| 17 | The influence of field strength and different clinical breast MRI protocols on the outcome of texture analysis using foam phantoms. <i>Medical Physics</i> , 2011, 38, 5058-5066. | 1.6 | 72 |
| 18 | Automated registration of dynamic MR images for the quantification of myocardial perfusion. <i>Journal of Magnetic Resonance Imaging</i> , 2001, 13, 648-655. | 1.9 | 64 |

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|----|--|-----|-----------|
| 19 | Positron Emission Tomography-Guided Stereotactic Brain Biopsy. <i>Neurosurgery</i> , 1992, 31, 792-797. | 0.6 | 61 |
| 20 | Moving to 3D: relationships between coral planar area, surface area and volume. <i>PeerJ</i> , 2018, 6, e4280. | 0.9 | 61 |
| 21 | Dynamic, Gated and High Resolution Imaging with the ECAT III. <i>IEEE Transactions on Nuclear Science</i> , 1986, 33, 452-455. | 1.2 | 58 |
| 22 | Incorporating radiomics into clinical trials: expert consensus endorsed by the European Society of Radiology on considerations for data-driven compared to biologically driven quantitative biomarkers. <i>European Radiology</i> , 2021, 31, 6001-6012. | 2.3 | 53 |
| 23 | Quantitative Imaging to Assess Tumor Response to Therapy: Common Themes of Measurement, Truth Data, and Error Sources. <i>Translational Oncology</i> , 2009, 2, 198-210. | 1.7 | 49 |
| 24 | Use of positron emission tomography (PET) in stereotactic conditions for brain biopsy. <i>Acta Neurochirurgica</i> , 1995, 134, 79-82. | 0.9 | 48 |
| 25 | PET/CT Assessment of Response to Therapy: Tumor Change Measurement, Truth Data and Error. <i>Translational Oncology</i> , 2009, 2, 223-230. | 1.7 | 46 |
| 26 | Second-generation three-dimensional reconstruction for rotational three-dimensional angiography. <i>Academic Radiology</i> , 1998, 5, 836-849. | 1.3 | 44 |
| 27 | A Prospective Study of Preoperative Computed Tomographic Angiography for Head and Neck Reconstruction with Anterolateral Thigh Flaps. <i>Plastic and Reconstructive Surgery</i> , 2011, 127, 1505-1514. | 0.7 | 44 |
| 28 | Evolving Role of Imaging Modalities in Inflammatory Breast Cancer. <i>Seminars in Oncology</i> , 2008, 35, 51-63. | 0.8 | 38 |
| 29 | Unified deep learning approach for prediction of Parkinson's disease. <i>IET Image Processing</i> , 2020, 14, 1980-1989. | 1.4 | 37 |
| 30 | Computed Tomography Assessment of Response to Therapy: Tumor Volume Change Measurement, Truth Data, and Error. <i>Translational Oncology</i> , 2009, 2, 216-222. | 1.7 | 35 |
| 31 | What scans we will read: imaging instrumentation trends in clinical oncology. <i>Cancer Imaging</i> , 2020, 20, 38. | 1.2 | 35 |
| 32 | WE-B-201B-02: The Lung Image Database Consortium (LIDC) and Image Database Resource Initiative (IDRI): A Completed Public Database of CT Scans for Lung Nodule Analysis. <i>Medical Physics</i> , 2010, 37, 3416-3417. | 1.6 | 35 |
| 33 | Helical Multidetector Row Quantitative Computed Tomography (QCT) Precision. <i>Academic Radiology</i> , 2009, 16, 150-159. | 1.3 | 32 |
| 34 | Molecular Imaging Reveals Skeletal Engraftment Sites of Transplanted Bone Marrow Cells. <i>Cell Transplantation</i> , 2006, 15, 75-82. | 1.2 | 24 |
| 35 | Magnetic Resonance Assessment of Response to Therapy: Tumor Change Measurement, Truth Data and Error Sources. <i>Translational Oncology</i> , 2009, 2, 211-215. | 1.7 | 24 |
| 36 | HIF-1 α -Dependent Stromal Adaptation to Ischemia Mediates <i>In Vivo</i> Tumor Radiation Resistance. <i>Molecular Cancer Research</i> , 2011, 9, 259-270. | 1.5 | 24 |

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|----|---|-----|-----------|
| 37 | Dynamic data-driven finite element models for laser treatment of cancer. Numerical Methods for Partial Differential Equations, 2007, 23, 904-922. | 2.0 | 23 |
| 38 | Three- to five-dimensional biomedical multisensor imaging for the assessment of neurological (dys)function. Journal of Digital Imaging, 1996, 9, 185-198. | 1.6 | 19 |
| 39 | Pharmacokinetics, Metabolism, Biodistribution, Radiation Dosimetry, and Toxicology of 18F-Fluoroacetate (18F-FACE) in Non-human Primates. Molecular Imaging and Biology, 2012, 14, 213-224. | 1.3 | 19 |
| 40 | Temporal glucose metabolism in borderline personality disorder. Psychiatry Research - Neuroimaging, 1994, 55, 237-245. | 0.9 | 18 |
| 41 | Multimodality Registration without a Dedicated Multimodality Scanner. Molecular Imaging, 2007, 6, 7290.2007.00008. | 0.7 | 18 |
| 42 | Bone Metastases Are Measurable: The Role of Whole-Body MRI and Positron Emission Tomography. Frontiers in Oncology, 2021, 11, 772530. | 1.3 | 14 |
| 43 | Semiautomatic Software For Quantitative Analysis Of Cardiac Positron Tomography Studies. , 1988, 0914, 412. | | 13 |
| 44 | Hybrid Modality Fusion of Planar Scintigrams and CT Topograms to Localize Sentinel Lymph Nodes in Breast Lymphoscintigraphy: Technical Description and Phantom Studies. International Journal of Molecular Imaging, 2011, 2011, 1-10. | 1.3 | 12 |
| 45 | Potentials and caveats of AI in hybrid imaging. Methods, 2021, 188, 4-19. | 1.9 | 12 |
| 46 | Development of a Targeted Gene Vector Platform Based on Simian Adenovirus Serotype 24. Journal of Virology, 2010, 84, 10087-10101. | 1.5 | 11 |
| 47 | Optical Technologies and Molecular Imaging for Cervical Neoplasia: A Program Project Update. Gender Medicine, 2012, 9, S7-S24. | 1.4 | 11 |
| 48 | Impact of the COVID-19 crisis on imaging in oncological trials. European Journal of Nuclear Medicine and Molecular Imaging, 2020, 47, 2054-2058. | 3.3 | 11 |
| 49 | A trust framework for digital food systems. Nature Food, 2021, 2, 543-545. | 6.2 | 11 |
| 50 | Relationship between intrahepatic vessels and computer-generated hepatic scissurae: an in vitro assay. Surgical and Radiologic Anatomy, 1996, 18, 43-46. | 0.6 | 10 |
| 51 | <title>Visible Human Slice Web Server: a first assessment</title>. , 1999, , . | | 9 |
| 52 | In-vivo Barrett's esophagus digital pathology stage classification through feature enhancement of confocal laser endomicroscopy. Journal of Medical Imaging, 2019, 6, 1. | 0.8 | 9 |
| 53 | A New Technique For Elastic Registration Of Tomographic Images. Proceedings of SPIE, 1988, 0914, 452. | 0.8 | 8 |
| 54 | Neural architecture search of echocardiography view classifiers. Journal of Medical Imaging, 2021, 8, 034002. | 0.8 | 8 |

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|----|--|-----|-----------|
| 55 | Using Cyber-Infrastructure for Dynamic Data Driven Laser Treatment of Cancer. Lecture Notes in Computer Science, 2007, , 972-979. | 1.0 | 6 |
| 56 | Liver segmentation from registered multiphase CT data sets with EM clustering and GVF level set. , 2010, , . | | 5 |
| 57 | SU-EE-A4-03: Validation of GATE Monte Carlo Simulations of the Noise Equivalent Count Rate and Image Quality for the GE Discovery LS PET Scanner. Medical Physics, 2005, 32, 1900-1901. | 1.6 | 4 |
| 58 | <title>Composite PET and MRI for accurate localization and metabolic modeling: a very useful tool for research and clinic</title>. , 1991, , . | | 3 |
| 59 | Multisensor Imaging and Virtual Simulation for Assessment, Diagnosis, Therapy Planning, and Navigation. Simulation and Gaming, 2001, 32, 370-390. | 1.2 | 3 |
| 60 | 3D ultrasound simulation based on a biomechanical model of prone MRI in breast cancer imaging. , 2015, , . | | 3 |
| 61 | Professional development and research are being neglected: a commentary on the 2019 RCR radiologists' supporting professional activities (SPA) survey. Clinical Radiology, 2020, 75, 348-350. | 0.5 | 3 |
| 62 | Advanced Non-linear Generative Model with a Deep Classifier for Immunotherapy Outcome Prediction: A Bladder Cancer Case Study. Lecture Notes in Computer Science, 2021, , 227-242. | 1.0 | 3 |
| 63 | Brain oedema induced by ventricular puncture. Acta Neurochirurgica, 1994, 129, 177-180. | 0.9 | 2 |
| 64 | Telematics techniques for image based diagnosis, therapy planning and monitoring. International Journal of Medical Informatics, 1998, 52, 81-91. | 1.6 | 2 |
| 65 | Advanced imaging including PET/CT for cardiothoracic surgery. Seminars in Thoracic and Cardiovascular Surgery, 2004, 16, 272-282. | 0.4 | 2 |
| 66 | Fully integrated cardiac data processing and analysis for clinical positron emission tomography. , 1992, , . | | 1 |
| 67 | <title>Assessment of neurological (dys)function through multidimensional and fully multisensor biomedical imaging</title>. , 1996, , . | | 1 |
| 68 | Magnetic resonance imaging assessment of a convective therapy delivery paradigm in a canine prostate model. Journal of Magnetic Resonance Imaging, 2007, 26, 1672-1677. | 1.9 | 1 |
| 69 | The ClearPET/XPAD prototype: Development of a simultaneous PET/CT scanner for mice. , 2015, , . | | 1 |
| 70 | Multimodality Stereotaxic Correlation Between XCT, PET, MRI And Histology For Tumoral Tissue Evaluation In The Brain. , 1992, , . | | 1 |
| 71 | Computational Infrastructure for the Real-Time Patient-Specific Treatment of Cancer. Computational and Physical Processes in Mechanics and Thermal Science, 2009, , 307-344. | 0.7 | 1 |
| 72 | Imaging in Radiation Oncology * *This chapter is an update and expansion of material presented in the first edition by C.C. Ling, R. Mohan, L.E. Reinstein, and L.N. Rothenberg, and in the second edition by the current authors.. , 2010, , 120-154. | | 1 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 73 | Multimodality stereotaxic correlation between XCT, PET, MRI and histology for tumoral tissue evaluation in the brain. , 1992, , . | | 0 |
| 74 | Fully multisensor 5D biomedical imaging for the assessment of neurological (Dys-)function. NeuroImage, 1996, 3, S148. | 2.1 | 0 |
| 75 | <title>Model-based multiconstrained integration of invasive electrophysiology with other modalities</title>. , 2001, , . | | 0 |
| 76 | 3-dimensional multi-modality non-invasive imaging of the bone marrow engraftment model. Biology of Blood and Marrow Transplantation, 2004, 10, 82. | 2.0 | 0 |
| 77 | Rapid prototype modeling in a multimodality world. , 2006, , . | | 0 |
| 78 | 46B: COMPLEX MID-FACIAL RECONSTRUCTION USING VIRTUAL PLANNING, RAPID PROTOTYPE MODELING, AND STEREOTACTIC NAVIGATION. Plastic and Reconstructive Surgery, 2010, 125, 38. | 0.7 | 0 |
| 79 | Translational imaging - What, why and how?. European Journal of Molecular and Clinical Medicine, 2017, 2, 55. | 0.5 | 0 |
| 80 | MO-D-330A-08: Implementing Quantitative Computed Tomography On Multi-Slice Scanners. Medical Physics, 2006, 33, 2159-2160. | 1.6 | 0 |
| 81 | SUâ€FFâ€¢â€¢107: Improving the Accuracy of CT Topograms for Node Localization in Breast Lymphoscintigraphy. Medical Physics, 2007, 34, 2362-2363. | 1.6 | 0 |
| 82 | Biomedical Multimodality Imaging for Clinical and Research Applications: Principles, Techniques and Validation. NATO Science for Peace and Security Series B: Physics and Biophysics, 2008, , 249-281. | 0.2 | 0 |
| 83 | Differential impact of changes in muscle tissue (MT) and adipose tissue (AT) on survival in men and women with locally advanced pancreatic cancer (LAPC) receiving chemoradiation (CRT). Journal of Clinical Oncology, 2008, 26, 9640-9640. | 0.8 | 0 |
| 84 | Multimodality and Advanced Biomedical Imaging for Clinical and Research Applications. , 2010, , . | | 0 |