Luc M Bidaut

List of Publications by Year
in descending order

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	Potentials and caveats of AI in hybrid imaging. Methods, 2021, 188, 4-19.	1.9	12
2	Neural architecture search of echocardiography view classifiers. Journal of Medical Imaging, 2021, 8, 034002.	0.8	8
3	A trust framework for digital food systems. Nature Food, 2021, 2, 543-545.	6.2	11
4	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. European Radiology, 2021, 31, 6001-6012.	2.3	53
5	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
6	Bone Metastases Are Measurable: The Role of Whole-Body MRI and Positron Emission Tomography. Frontiers in Oncology, 2021, 11, 772530.	1.3	14
7	Unified deep learning approach for prediction of Parkinson's disease. IET Image Processing, 2020, 14, 1980-1989.	1.4	37
8	What scans we will read: imaging instrumentation trends in clinical oncology. Cancer Imaging, 2020, 20, 38.	1.2	35
9	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
10	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
11	Are Distributed Ledger Technologies the panacea for food traceability?. Global Food Security, 2019, 20, 145-149.	4.0	135
12	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
13	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. Lancet Oncology, The, 2018, 19, e534-e545.	5.1	98
14	Integrated Pharmacodynamic Analysis Identifies Two Metabolic Adaption Pathways to Metformin in Breast Cancer. Cell Metabolism, 2018, 28, 679-688.e4.	7.2	92
15	Moving to 3D: relationships between coral planar area, surface area and volume. PeerJ, 2018, 6, e4280.	0.9	61
16	Translational imaging - What, why and how?. European Journal of Molecular and Clinical Medicine, 2017, 2, 55.	0.5	0
17	Translational Medicine definition by the European Society for Translational Medicine. European Journal of Molecular and Clinical Medicine, 2017, 2, 86.	0.5	75
18	The ClearPET/XPAD prototype: Development of a simultaneous PET/CT scanner for mice. , 2015, , .		1

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19	3D ultrasound simulation based on a biomechanical model of prone MRI in breast cancer imaging. , 2015, , .		3
20	Transrectal quantitative shear wave elastography in the detection and characterisation of prostate cancer. Surgical Endoscopy and Other Interventional Techniques, 2013, 27, 3280-3287.	1.3	95
21	Relationships Among Body Mass Index, Longitudinal Body Composition Alterations, and Survival in Patients With Locally Advanced Pancreatic Cancer Receiving Chemoradiation: A Pilot Study. Journal of Pain and Symptom Management, 2012, 44, 181-191.	0.6	153
22	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
23	Optical Technologies and Molecular Imaging for Cervical Neoplasia: A Program Project Update. Gender Medicine, 2012, 9, S7-S24.	1.4	11
24	The Lung Image Database Consortium (LIDC) and Image Database Resource Initiative (IDRI): A Completed Reference Database of Lung Nodules on CT Scans. Medical Physics, 2011, 38, 915-931.	1.6	1,659
25	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
26	A Prospective Study of Preoperative Computed Tomographic Angiography for Head and Neck Reconstruction with Anterolateral Thigh Flaps. Plastic and Reconstructive Surgery, 2011, 127, 1505-1514.	0.7	44
27	The influence of field strength and different clinical breast MRI protocols on the outcome of texture analysis using foam phantoms. Medical Physics, 2011, 38, 5058-5066.	1.6	72
28	Randomized Double-Blind Placebo-Controlled Trial of Bevacizumab Therapy for Radiation Necrosis of the Central Nervous System. International Journal of Radiation Oncology Biology Physics, 2011, 79, 1487-1495.	0.4	611
29	HIF-1â€"Dependent Stromal Adaptation to Ischemia Mediates *In Vivo* Tumor Radiation Resistance. Molecular Cancer Research, 2011, 9, 259-270.	1.5	24
30	Midfacial Reconstruction Using Virtual Planning, Rapid Prototype Modeling, and Stereotactic Navigation. Plastic and Reconstructive Surgery, 2010, 126, 2002-2006.	0.7	77
31	46B: COMPLEX MID-FACIAL RECONSTRUCTION USING VIRTUAL PLANNING, RAPID PROTOTYPE MODELING, AND STEREOTACTIC NAVIGATION. Plastic and Reconstructive Surgery, 2010, 125, 38.	0.7	0
32	Inflammatory Breast Cancer: The Disease, the Biology, the Treatment. Ca-A Cancer Journal for Clinicians, 2010, 60, 351-375.	157.7	298
33	Human CD34$^+$ Cells in Experimental Myocardial Infarction. Circulation Research, 2010, 106, 1904-1911.	2.0	80
34	Development of a Targeted Gene Vector Platform Based on Simian Adenovirus Serotype 24. Journal of Virology, 2010, 84, 10087-10101.	1.5	11
35	Liver segmentation from registered multiphase CT data sets with EM clustering and GVF level set. , 2010, , .		5
36	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. Medical Physics, 2010, 37, 3416-3417.	1.6	35

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37	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
38	Multimodality and Advanced Biomedical Imaging for Clinical and Research Applications. , 2010, , .		0
39	Breast Cancer Metastasis: Challenges and Opportunities. Cancer Research, 2009, 69, 4951-4953.	0.4	202
40	Helical Multidetector Row Quantitative Computed Tomography (QCT) Precision. Academic Radiology, 2009, 16, 150-159.	1.3	32
41	Magnetic Resonance Assessment of Response to Therapy: Tumor Change Measurement, Truth Data and Error Sources. Translational Oncology, 2009, 2, 211-215.	1.7	24
42	PET/CT Assessment of Response to Therapy: Tumor Change Measurement, Truth Data and Error. Translational Oncology, 2009, 2, 223-230.	1.7	46
43	Quantitative Imaging to Assess Tumor Response to Therapy: Common Themes of Measurement, Truth Data, and Error Sources. Translational Oncology, 2009, 2, 198-210.	1.7	49
44	Computed Tomography Assessment of Response to Therapy: Tumor Volume Change Measurement, Truth Data, and Error. Translational Oncology, 2009, 2, 216-222.	1.7	35
45	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
46	Evolving Role of Imaging Modalities in Inflammatory Breast Cancer. Seminars in Oncology, 2008, 35, 51-63.	0.8	38
47	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
48	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
49	Multimodality Registration without a Dedicated Multimodality Scanner. Molecular Imaging, 2007, 6, 7290.2007.00008.	0.7	18
50	Dynamic data-driven finite element models for laser treatment of cancer. Numerical Methods for Partial Differential Equations, 2007, 23, 904-922.	2.0	23
51	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
52	Using Cyber-Infrastructure for Dynamic Data Driven Laser Treatment of Cancer. Lecture Notes in Computer Science, 2007, , 972-979.	1.0	6
53	SUâ€FFâ€‐107: Improving the Accuracy of CT Topograms for Node Localization in Breast Lymphoscintigraphy. Medical Physics, 2007, 34, 2362-2363.	1.6	0
54	Rapid prototype modeling in a multimodality world. , 2006, , .		0

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55	Molecular Imaging Reveals Skeletal Engraftment Sites of Transplanted Bone Marrow Cells. Cell Transplantation, 2006, 15, 75-82.	1.2	24
56	Dynamic ventilation imaging from four-dimensional computed tomography. Physics in Medicine and Biology, 2006, 51, 777-791.	1.6	206
57	MO-D-330A-08: Implementing Quantitative Computed Tomography On Multi-Slice Scanners. Medical Physics, 2006, 33, 2159-2160.	1.6	0
58	Validation of GATE Monte Carlo simulations of the GE Advance/Discovery LS PET scanners. Medical Physics, 2005, 33, 198-208.	1.6	119
59	SU-EE-A4-03: Validation of GATE Monte Carlo Simulations of the Noise Equivalent Count Rate and Image Quailty for the GE Discovery LS PET Scanner. Medical Physics, 2005, 32, 1900-1901.	1.6	4
60	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
61	Advanced imaging including PET/CT for cardiothoracic surgery. Seminars in Thoracic and Cardiovascular Surgery, 2004, 16, 272-282.	0.4	2
62	<title>Model-based multiconstrained integration of invasive electrophysiology with other modalities</title>. , 2001, , .		0
63	Automated registration of dynamic MR images for the quantification of myocardial perfusion. Journal of Magnetic Resonance Imaging, 2001, 13, 648-655.	1.9	64
64	Multisensor Imaging and Virtual Simulation for Assessment, Diagnosis, Therapy Planning, and Navigation. Simulation and Gaming, 2001, 32, 370-390.	1.2	3
65	<title>Visible Human Slice Web Server: a first assessment</title>. , 1999, , .		9
66	Telematics techniques for image based diagnosis, therapy planning and monitoring. International Journal of Medical Informatics, 1998, 52, 81-91.	1.6	2
67	Second-generation three-dimensional reconstruction for rotational three-dimensional angiography. Academic Radiology, 1998, 5, 836-849.	1.3	44
68	Fully multisensor 5D biomedical imaging for the assessment of neurological (Dys-)function. NeuroImage, 1996, 3, S148.	2.1	0
69	<title>Assessment of neurological (dys)function through multidimensional and fully multisensor biomedical imaging</title>. , 1996, , .		1
70	Relationship between intrahepatic vessels and computer-generated hepatic scissurae: anin vitro assay. Surgical and Radiologic Anatomy, 1996, 18, 43-46.	0.6	10
71	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
72	Use of positron emission tomography (PET) in stereotactic conditions for brain biopsy. Acta Neurochirurgica, 1995, 134, 79-82.	0.9	48

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73	Brain hypometabolism of glucose in anorexia nervosa: A PET scan study. Biological Psychiatry, 1995, 37, 161-169.	0.7	106
74	Brain oedema induced by ventricular puncture. Acta Neurochirurgica, 1994, 129, 177-180.	0.9	2
75	Temporal glucose metabolism in borderline personality disorder. Psychiatry Research - Neuroimaging, 1994, 55, 237-245.	0.9	18
76	Reversible striatal hypermetabolism in a case of sydenham's chorea. Movement Disorders, 1993, 8, 355-358.	2.2	86
77	Multimodality stereotaxic correlation between XCT, PET, MRI and histology for tumoral tissue evaluation in the brain. , 1992, , .		0
78	Fully integrated cardiac data processing and analysis for clinical positron emission tomography. , 1992, , .		1
79	Multimodality Stereotaxic Correlation Between XCT, PET, MRI And Histology For Tumoral Tissue Evaluation In The Brain. , 1992, , .		1
80	Positron Emission Tomography-Guided Stereotactic Brain Biopsy. Neurosurgery, 1992, 31, 792-797.	0.6	61
81	<title>Composite PET and MRI for accurate localization and metabolic modeling: a very useful tool for research and clinic</title>. , 1991, , .		3
82	A New Technique For Elastic Registration Of Tomographic Images. Proceedings of SPIE, 1988, 0914, 452.	0.8	8
83	Semiautomatic Software For Quantitative Analysis Of Cardiac Positron Tomography Studies. , 1988, 0914, 412.		13
84	Dynamic, Gated and High Resolution Imaging with the ECAT III. IEEE Transactions on Nuclear Science, 1986, 33, 452-455.	1.2	58