Albert C Lardo

List of Publications by Year
in descending order

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85	11,074	71102 41	66911 78
papers	citations	h-index	g-index

86	86	86	8970
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A Noninvasive Assessment of Flow Based on Contrast Dispersion in Computed Tomography Angiography: A Computational and Experimental Phantom Study. Journal of Biomechanical Engineering, 2022, 144, .	1.3	1
2	Flow Dynamics in the Aortic Arch and Its Effect on the Arterial Input Function in Cardiac Computed Tomography. Journal of Biomechanical Engineering, 2019, 141, .	1.3	7
3	Safety of Magnetic Resonance Imaging in Patients with Cardiac Devices. New England Journal of Medicine, 2017, 377, 2555-2564.	27.0	243
4	Non-invasive electromechanical activation imaging as a tool to study left ventricular dyssynchronous patients: Implication for CRT therapy. Journal of Electrocardiology, 2016, 49, 375-382.	0.9	11
5	Insights from Novel Noninvasive CT and ECG Imaging Modalities on Electromechanical Myocardial Activation in a Canine Model of Ischemic Dyssynchronous Heart Failure. Journal of Cardiovascular Electrophysiology, 2016, 27, 1454-1461.	1.7	3
6	Effect of intravenous infusion of iodinated contrast media on the coronary blood flow in dogs. IJC Heart and Vasculature, 2016, 12, 11-14.	1.1	3
7	Effect of trabeculae and papillary muscles on the hemodynamics of the left ventricle. Theoretical and Computational Fluid Dynamics, 2016, 30, 3-21.	2.2	64
8	Estimating coronary blood flow using CT transluminal attenuation flow encoding: Formulation, preclinical validation, and clinical feasibility. Journal of Cardiovascular Computed Tomography, 2015, 9, 559-566.e1.	1.3	20
9	Image-based reconstruction of 3D myocardial infarct geometry for patient specific applications. Proceedings of SPIE, 2015, 9413, .	0.8	7
10	Multiparametric Molecular Imaging Provides Mechanistic Insights into Sympathetic Innervation Impairment in the Viable Infarct Border Zone. Journal of Nuclear Medicine, 2015, 56, 457-463.	5.0	37
11	Regional Strain Analysis with Multidetector CT in a Swine Cardiomyopathy Model: Relationship to Cardiac MR Tagging and Myocardial Fibrosis. Radiology, 2015, 277, 88-94.	7.3	25
12	Imageâ€based reconstruction of threeâ€dimensional myocardial infarct geometry for patientâ€specific modeling of cardiac electrophysiology. Medical Physics, 2015, 42, 4579-4590.	3.0	38
13	Effect of the mitral valve on diastolic flow patterns. Physics of Fluids, 2014, 26, .	4.0	86
14	Intracoronary Cardiosphere-Derived Cells After Myocardial Infarction. Journal of the American College of Cardiology, 2014, 63, 110-122.	2.8	468
15	Accuracy of multidetector computed tomography for detection of coronary artery stenosis in acute coronary syndrome compared with stable coronary disease: A CORE64 multicenter trial substudy. International Journal of Cardiology, 2014, 177, 385-391.	1.7	14
16	Autologous Mesenchymal Stem Cells Produce Concordant Improvements in Regional Function, Tissue Perfusion, and Fibrotic Burden When Administered to Patients Undergoing Coronary Artery Bypass Grafting. Circulation Research, 2014, 114, 1302-1310.	4.5	305
17	Efficacy of cardiac resynchronization in acutely infarcted canine hearts with electromechanical dyssynchrony. Heart Rhythm, 2014, 11, 1819-1826.	0.7	3
18	Transmural Imaging of Ventricular Action Potentials and Post-Infarction Scars in Swine Hearts. IEEE Transactions on Medical Imaging, 2013, 32, 731-747.	8.9	36

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19	A new twist on an old idea: a two-dimensional speckle tracking assessment of cyclosporine as a therapeutic alternative for heart failure with preserved ejection fraction. Physiological Reports, 2013, 1, e00174.	1.7	15
20	Patterns of coronary arterial lesion calcification by a novel, cross-sectional CT angiographic assessment. International Journal of Cardiovascular Imaging, 2013, 29, 1619-1627.	1.5	17
21	Image-guided therapies for myocardial repair: concepts and practical implementation. European Heart Journal Cardiovascular Imaging, 2013, 14, 741-751.	1.2	16
22	Estimation of ventricular fiber orientations in infarcted hearts for patient-specific simulations. , 2013, , .		1
23	Computed Tomography Myocardial Perfusion Imaging With 320-Row Detector Computed Tomography Accurately Detects Myocardial Ischemia in Patients With Obstructive Coronary Artery Disease. Circulation: Cardiovascular Imaging, 2012, 5, 333-340.	2.6	159
24	A New Method for Cardiac Computed Tomography Regional Function Assessment. Circulation: Cardiovascular Imaging, 2012, 5, 243-250.	2.6	59
25	Intracoronary cardiosphere-derived cells for heart regeneration after myocardial infarction (CADUCEUS): a prospective, randomised phase 1 trial. Lancet, The, 2012, 379, 895-904.	13.7	1,294
26	Cardiovascular magnetic resonance characterization of peri-infarct zone remodeling following myocardial infarction. Journal of Cardiovascular Magnetic Resonance, 2012, 14, 24.	3.3	36
27	Diagnostic Accuracy of Computed Tomography Coronary Angiography According to Pre-Test Probability of Coronary Artery Disease and Severity of Coronary Arterial Calcification. Journal of the American College of Cardiology, 2012, 59, 379-387.	2.8	222
28	Transmural Electrophysiologic and Scar Imaging on Porcine Heart with Chronic Infarction. Lecture Notes in Computer Science, 2012, , 23-32.	1.3	1
29	Quantitative Analysis of First-Pass Contrast-Enhanced Myocardial Perfusion Multidetector CT Using a Patlak Plot Method and Extraction Fraction Correction During Adenosine Stress. IEEE Transactions on Nuclear Science, 2011, 58, 133-138.	2.0	10
30	CT for Evaluation of Myocardial Cell Therapy in Heart Failure. JACC: Cardiovascular Imaging, 2011, 4, 1284-1293.	5.3	26
31	A Prospective Evaluation of a Protocol for Magnetic Resonance Imaging of Patients With Implanted Cardiac Devices. Annals of Internal Medicine, 2011, 155, 415.	3.9	276
32	CT-Based Myocardial Perfusion Imaging-Practical Considerations: Acquisition, Image Analysis, Interpretation, and Challenges. Journal of Cardiovascular Translational Research, 2011, 4, 437-448.	2.4	9
33	CT Perfusion: Ready for Prime Time. Current Cardiology Reports, 2011, 13, 57-66.	2.9	13
34	Diagnostic Performance of Combined Noninvasive Coronary Angiography and Myocardial Perfusion Imaging Using 320-MDCT: The CT Angiography and Perfusion Methods of the CORE320 Multicenter Multinational Diagnostic Study. American Journal of Roentgenology, 2011, 197, 829-837.	2.2	113
35	Coronary flow reserve by CT perfusion. Journal of Nuclear Cardiology, 2010, 17, 540-543.	2.1	1
36	Assessment of coronary blood flow with computed tomography and magnetic resonance imaging. Journal of Nuclear Cardiology, 2010, 17, 582-590.	2.1	17

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37	Quantitative and qualitative analysis and interpretation of CT perfusion imaging. Journal of Nuclear Cardiology, 2010, 17, 1091-1100.	2.1	22
38	Evaluation of equivalence of upslope method-derived myocardial perfusion index and transfer constant based on two-compartment tracer kinetic model. , 2010, , .		3
39	Quantification of myocardial blood flow using the combination of bolus tracking and time-registered helical multidetector CT angiography during adenosine stress. , 2010, , .		1
40	Characterization and Correction of Beam-hardening Artifacts during Dynamic Volume CT Assessment of Myocardial Perfusion. Radiology, 2010, 256, 111-118.	7.3	118
41	Patient Characteristics as Predictors of Image Quality and Diagnostic Accuracy of MDCT Compared With Conventional Coronary Angiography for Detecting Coronary Artery Stenoses: CORE-64 Multicenter International Trial. American Journal of Roentgenology, 2010, 194, 93-102.	2.2	94
42	A Method for Reconstructing the Arterial Input Function during Helical CT: Implications for Myocardial Perfusion Distribution Imaging. Radiology, 2010, 255, 396-404.	7.3	31
43	CT Detection of Myocardial Perfusion, Infarction, and Viability. , 2010, , 148-154.		0
44	Quantitative analysis of first-pass contrast-enhanced myocardial perfusion multidetector CT using a Patlak plot method and extraction fraction correction during adenosine stress. , 2009, , .		7
45	Engraftment, Differentiation, and Functional Benefits of Autologous Cardiosphere-Derived Cells in Porcine Ischemic Cardiomyopathy. Circulation, 2009, 120, 1075-1083.	1.6	383
46	Applications of cardiac multidetector CT beyond coronary angiography. Nature Reviews Cardiology, 2009, 6, 699-710.	13.7	61
47	Expanding the Versatility of Cardiac PET/CT: Feasibility of Delayed Contrast Enhancement CT for Infarct Detection in a Porcine Model. Journal of Nuclear Medicine, 2009, 50, 259-265.	5.0	18
48	Adenosine Stress 64- and 256-Row Detector Computed Tomography Angiography and Perfusion Imaging. Circulation: Cardiovascular Imaging, 2009, 2, 174-182.	2.6	305
49	Integration of Infarct Size, Tissue Perfusion, and Metabolism by Hybrid Cardiac Positron Emission Tomography/Computed Tomography. Circulation: Cardiovascular Imaging, 2009, 2, 299-305.	2.6	52
50	Usefulness of Left Ventricular Dyssynchrony After Acute Myocardial Infarction, Assessed by a Tagging Magnetic Resonance Image Derived Metric, as a Determinant of Ventricular Remodeling. American Journal of Cardiology, 2009, 104, 19-23.	1.6	28
51	Prospective ECG-gated 320 row detector computed tomography: implications for CT angiography and perfusion imaging. International Journal of Cardiovascular Imaging, 2009, 25, 201-208.	1.5	49
52	Recent developments in wide-detector cardiac computed tomography. International Journal of Cardiovascular Imaging, 2009, 25, 23-29.	1.5	52
53	Cardiovascular magnetic resonance guided electrophysiology studies. Journal of Cardiovascular Magnetic Resonance, 2009, 11, 21.	3.3	39
54	Coronary CT angiography using 64 detector rows: methods and design of the multi-centre trial CORE-64. European Radiology, 2009, 19, 816-828.	4.5	110

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55	Characterization of Peri-Infarct Zone Heterogeneity by Contrast-Enhanced Multidetector Computed Tomography. Journal of the American College of Cardiology, 2009, 53, 1699-1707.	2.8	97
56	Prospective Electrocardiogram-Gated Delayed Enhanced Multidetector Computed Tomography Accurately Quantifies Infarct Size and Reduces Radiation Exposure. JACC: Cardiovascular Imaging, 2009, 2, 412-420.	5.3	36
57	Autologous mesenchymal stem cells produce reverse remodelling in chronic ischaemic cardiomyopathy. European Heart Journal, 2009, 30, 2722-2732.	2.2	231
58	Left Ventricular Function, Myocardial Perfusion and Viability. Cardiology Clinics, 2009, 27, 645-654.	2.2	6
59	Added value of CT myocardial perfusion imaging. Current Cardiovascular Imaging Reports, 2008, 1, 96-104.	0.6	6
60	Cardiac Magnetic Resonance Assessment of Dyssynchrony and Myocardial Scar Predicts Function Class Improvement Following Cardiac Resynchronization Therapy. JACC: Cardiovascular Imaging, 2008, 1, 561-568.	5.3	200
61	Diagnostic Performance of Coronary Angiography by 64-Row CT. New England Journal of Medicine, 2008, 359, 2324-2336.	27.0	1,637
62	Segmentation-based algorithms to quantify nonviable myocardium after delayed contrast-enhanced computed tomography: defining whatâ€™s dead. Journal of Cardiovascular Computed Tomography, 2008, 2, 33-35.	1.3	0
63	Reversal of Global Apoptosis and Regional Stress Kinase Activation by Cardiac Resynchronization. Circulation, 2008, 117, 1369-1377.	1.6	121
64	Feasibility of Real-Time Magnetic Resonance Imaging for Catheter Guidance in Electrophysiology Studies. Circulation, 2008, 118, 223-229.	1.6	186
65	Cardiac magnetic resonance assessment of mechanical dyssynchrony. Current Opinion in Cardiology, 2008, 23, 440-446.	1.8	26
66	Enhanced Infarct Border Zone Function and Altered Mechanical Activation Predict Inducibility of Monomorphic Ventricular Tachycardia in Patients with Ischemic Cardiomyopathy. Radiology, 2007, 245, 712-719.	7.3	44
67	Three-Dimensional Mapping of Optimal Left Ventricular Pacing Site for Cardiac Resynchronization. Circulation, 2007, 115, 953-961.	1.6	172
68	Quantification of Myocardial Perfusion Using Dynamic 64-Detector Computed Tomography. Investigative Radiology, 2007, 42, 815-822.	6.2	237
69	Magnetic Resonanceâ€“Based Anatomical Analysis of Scar-Related Ventricular Tachycardia. Circulation Research, 2007, 101, 939-947.	4.5	199
70	Diminished Left Ventricular Dyssynchrony and Impact of Resynchronization in Failing Hearts With Right Versus Left Bundle Branch Block. Journal of the American College of Cardiology, 2007, 50, 1484-1490.	2.8	96
71	Myocardial Dyssynchrony and Resynchronization. Heart Failure Clinics, 2006, 2, 179-192.	2.1	9
72	Multidetector Computed Tomography Myocardial Perfusion Imaging During Adenosine Stress. Journal of the American College of Cardiology, 2006, 48, 153-160.	2.8	264

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73	Multimodality Noninvasive Imaging Demonstrates In Vivo Cardiac Regeneration After Mesenchymal Stem Cell Therapy. Journal of the American College of Cardiology, 2006, 48, 2116-2124.	2.8	157
74	Imaging of myocardial dyssynchrony in congestive heart failure. Heart Failure Reviews, 2006, 11, 289-303.	3.9	7
75	Clinical Utility and Safety of a Protocol for Noncardiac and Cardiac Magnetic Resonance Imaging of Patients With Permanent Pacemakers and Implantable-Cardioverter Defibrillators at 1.5 Tesla. Circulation, 2006, 114, 1277-1284.	1.6	321
76	Contrast-Enhanced Multidetector Computed Tomography Viability Imaging After Myocardial Infarction. Circulation, 2006, 113, 394-404.	1.6	379
77	Magnetic Resonance Assessment of the Substrate for Inducible Ventricular Tachycardia in Nonischemic Cardiomyopathy. Circulation, 2005, 112, 2821-2825.	1.6	434
78	Cardiac Dyssynchrony Analysis Using Circumferential Versus Longitudinal Strain. Circulation, 2005, 111, 2760-2767.	1.6	267
79	Magnetic Resonance Imaging Assessment of Ventricular Dyssynchrony. Journal of the American College of Cardiology, 2005, 46, 2223-2228.	2.8	113
80	Laser ablation of the pulmonary veins by using a fiberoptic balloon catheter: Implications for treatment of paroxysmal atrial fibrillation. Lasers in Surgery and Medicine, 2001, 28, 197-203.	2.1	24
81	Linear lesions in myocardium created by Nd:YAG laser using diffusing optical fibers: In vitro and in vivo results. Lasers in Surgery and Medicine, 2000, 27, 295-304.	2.1	29
82	Prospective Comparison of Lesions Created Using a Multipolar Microcatheter Ablation System with Those Created Using a Fullback Approach with Standard Radiofrequency Ablation in the Canine Atrium. PACE - Pacing and Clinical Electrophysiology, 2000, 23, 203-213.	1.2	13
83	Real-Time Magnetic Resonance Imaging: Diagnostic and Interventional Applications. Pediatric Cardiology, 2000, 21, 80-98.	1.3	461
84	Visualization and Temporal/Spatial Characterization of Cardiac Radiofrequency Ablation Lesions Using Magnetic Resonance Imaging. Circulation, 2000, 102, 698-705.	1.6	208
85	Resuscitation After Prolonged Ventricular Fibrillation With Use of Monophasic and Biphasic Waveform Pulses for External Defibrillation. Circulation, 2000, 101, 2968-2974.	1.6	65