Albert C Lardo

List of Publications by Year
in descending order

85	11,074	71061 41	66879 78
papers	citations	h-index	g-index

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

#	Article	IF	Citations
1	Diagnostic Performance of Coronary Angiography by 64-Row CT. New England Journal of Medicine, 2008, 359, 2324-2336.	13.9	1,637
2	Intracoronary cardiosphere-derived cells for heart regeneration after myocardial infarction (CADUCEUS): a prospective, randomised phase 1 trial. Lancet, The, 2012, 379, 895-904.	6.3	1,294
3	Intracoronary Cardiosphere-Derived Cells After Myocardial Infarction. Journal of the American College of Cardiology, 2014, 63, 110-122.	1.2	468
4	Real-Time Magnetic Resonance Imaging: Diagnostic and Interventional Applications. Pediatric Cardiology, 2000, 21, 80-98.	0.6	461
5	Magnetic Resonance Assessment of the Substrate for Inducible Ventricular Tachycardia in Nonischemic Cardiomyopathy. Circulation, 2005, 112, 2821-2825.	1.6	434
6	Engraftment, Differentiation, and Functional Benefits of Autologous Cardiosphere-Derived Cells in Porcine Ischemic Cardiomyopathy. Circulation, 2009, 120, 1075-1083.	1.6	383
7	Contrast-Enhanced Multidetector Computed Tomography Viability Imaging After Myocardial Infarction. Circulation, 2006, 113, 394-404.	1.6	379
8	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
9	Adenosine Stress 64- and 256-Row Detector Computed Tomography Angiography and Perfusion Imaging. Circulation: Cardiovascular Imaging, 2009, 2, 174-182.	1.3	305
10	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.	2.0	305
11	A Prospective Evaluation of a Protocol for Magnetic Resonance Imaging of Patients With Implanted Cardiac Devices. Annals of Internal Medicine, 2011, 155, 415.	2.0	276
12	Cardiac Dyssynchrony Analysis Using Circumferential Versus Longitudinal Strain. Circulation, 2005, 111, 2760-2767.	1.6	267
13	Multidetector Computed Tomography Myocardial Perfusion Imaging During Adenosine Stress. Journal of the American College of Cardiology, 2006, 48, 153-160.	1.2	264
14	Safety of Magnetic Resonance Imaging in Patients with Cardiac Devices. New England Journal of Medicine, 2017, 377, 2555-2564.	13.9	243
15	Quantification of Myocardial Perfusion Using Dynamic 64-Detector Computed Tomography. Investigative Radiology, 2007, 42, 815-822.	3.5	237
16	Autologous mesenchymal stem cells produce reverse remodelling in chronic ischaemic cardiomyopathy. European Heart Journal, 2009, 30, 2722-2732.	1.0	231
17	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.	1.2	222
18	Visualization and Temporal/Spatial Characterization of Cardiac Radiofrequency Ablation Lesions Using Magnetic Resonance Imaging. Circulation, 2000, 102, 698-705.	1.6	208

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19	Cardiac Magnetic Resonance Assessment of Dyssynchrony and Myocardial Scar Predicts Function Class Improvement Following Cardiac Resynchronization Therapy. JACC: Cardiovascular Imaging, 2008, 1, 561-568.	2.3	200
20	Magnetic Resonanceâ€“Based Anatomical Analysis of Scar-Related Ventricular Tachycardia. Circulation Research, 2007, 101, 939-947.	2.0	199
21	Feasibility of Real-Time Magnetic Resonance Imaging for Catheter Guidance in Electrophysiology Studies. Circulation, 2008, 118, 223-229.	1.6	186
22	Three-Dimensional Mapping of Optimal Left Ventricular Pacing Site for Cardiac Resynchronization. Circulation, 2007, 115, 953-961.	1.6	172
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.	1.3	159
24	Multimodality Noninvasive Imaging Demonstrates In Vivo Cardiac Regeneration After Mesenchymal Stem Cell Therapy. Journal of the American College of Cardiology, 2006, 48, 2116-2124.	1.2	157
25	Reversal of Global Apoptosis and Regional Stress Kinase Activation by Cardiac Resynchronization. Circulation, 2008, 117, 1369-1377.	1.6	121
26	Characterization and Correction of Beam-hardening Artifacts during Dynamic Volume CT Assessment of Myocardial Perfusion. Radiology, 2010, 256, 111-118.	3.6	118
27	Magnetic Resonance Imaging Assessment of Ventricular Dyssynchrony. Journal of the American College of Cardiology, 2005, 46, 2223-2228.	1.2	113
28	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.	1.0	113
29	Coronary CT angiography using 64 detector rows: methods and design of the multi-centre trial CORE-64. European Radiology, 2009, 19, 816-828.	2.3	110
30	Characterization of Peri-Infarct Zone Heterogeneity by Contrast-Enhanced Multidetector Computed Tomography. Journal of the American College of Cardiology, 2009, 53, 1699-1707.	1.2	97
31	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.	1.2	96
32	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.	1.0	94
33	Effect of the mitral valve on diastolic flow patterns. Physics of Fluids, 2014, 26, .	1.6	86
34	Resuscitation After Prolonged Ventricular Fibrillation With Use of Monophasic and Biphasic Waveform Pulses for External Defibrillation. Circulation, 2000, 101, 2968-2974.	1.6	65
35	Effect of trabeculae and papillary muscles on the hemodynamics of the left ventricle. Theoretical and Computational Fluid Dynamics, 2016, 30, 3-21.	0.9	64
36	Applications of cardiac multidetector CT beyond coronary angiography. Nature Reviews Cardiology, 2009, 6, 699-710.	6.1	61

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37	A New Method for Cardiac Computed Tomography Regional Function Assessment. Circulation: Cardiovascular Imaging, 2012, 5, 243-250.	1.3	59
38	Integration of Infarct Size, Tissue Perfusion, and Metabolism by Hybrid Cardiac Positron Emission Tomography/Computed Tomography. Circulation: Cardiovascular Imaging, 2009, 2, 299-305.	1.3	52
39	Recent developments in wide-detector cardiac computed tomography. International Journal of Cardiovascular Imaging, 2009, 25, 23-29.	0.7	52
40	Prospective ECG-gated 320 row detector computed tomography: implications for CT angiography and perfusion imaging. International Journal of Cardiovascular Imaging, 2009, 25, 201-208.	0.7	49
41	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.	3.6	44
42	Cardiovascular magnetic resonance guided electrophysiology studies. Journal of Cardiovascular Magnetic Resonance, 2009, 11, 21.	1.6	39
43	Imageâ€based reconstruction of threeâ€dimensional myocardial infarct geometry for patientâ€specific modeling of cardiac electrophysiology. Medical Physics, 2015, 42, 4579-4590.	1.6	38
44	Multiparametric Molecular Imaging Provides Mechanistic Insights into Sympathetic Innervation Impairment in the Viable Infarct Border Zone. Journal of Nuclear Medicine, 2015, 56, 457-463.	2.8	37
45	Prospective Electrocardiogram-Gated Delayed Enhanced Multidetector Computed Tomography Accurately Quantifies Infarct Size and Reduces Radiation Exposure. JACC: Cardiovascular Imaging, 2009, 2, 412-420.	2.3	36
46	Cardiovascular magnetic resonance characterization of peri-infarct zone remodeling following myocardial infarction. Journal of Cardiovascular Magnetic Resonance, 2012, 14, 24.	1.6	36
47	Transmural Imaging of Ventricular Action Potentials and Post-Infarction Scars in Swine Hearts. IEEE Transactions on Medical Imaging, 2013, 32, 731-747.	5.4	36
48	A Method for Reconstructing the Arterial Input Function during Helical CT: Implications for Myocardial Perfusion Distribution Imaging. Radiology, 2010, 255, 396-404.	3.6	31
49	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.	1.1	29
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.	0.7	28
51	Cardiac magnetic resonance assessment of mechanical dyssynchrony. Current Opinion in Cardiology, 2008, 23, 440-446.	0.8	26
52	CT for Evaluation of Myocardial Cell Therapy in Heart Failure. JACC: Cardiovascular Imaging, 2011, 4, 1284-1293.	2.3	26
53	Regional Strain Analysis with Multidetector CT in a Swine Cardiomyopathy Model: Relationship to Cardiac MR Tagging and Myocardial Fibrosis. Radiology, 2015, 277, 88-94.	3.6	25
54	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.	1.1	24

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55	Quantitative and qualitative analysis and interpretation of CT perfusion imaging. Journal of Nuclear Cardiology, 2010, 17, 1091-1100.	1.4	22
56	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.	0.7	20
57	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.	2.8	18
58	Assessment of coronary blood flow with computed tomography and magnetic resonance imaging. Journal of Nuclear Cardiology, 2010, 17, 582-590.	1.4	17
59	Patterns of coronary arterial lesion calcification by a novel, cross-sectional CT angiographic assessment. International Journal of Cardiovascular Imaging, 2013, 29, 1619-1627.	0.7	17
60	Image-guided therapies for myocardial repair: concepts and practical implementation. European Heart Journal Cardiovascular Imaging, 2013, 14, 741-751.	0.5	16
61	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.	0.7	15
62	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.	0.8	14
63	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.	0.5	13
64	CT Perfusion: Ready for Prime Time. Current Cardiology Reports, 2011, 13, 57-66.	1.3	13
65	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.	0.4	11
66	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.	1.2	10
67	Myocardial Dyssynchrony and Resynchronization. Heart Failure Clinics, 2006, 2, 179-192.	1.0	9
68	CT-Based Myocardial Perfusion Imaging-Practical Considerations: Acquisition, Image Analysis, Interpretation, and Challenges. Journal of Cardiovascular Translational Research, 2011, 4, 437-448.	1.1	9
69	Imaging of myocardial dyssynchrony in congestive heart failure. Heart Failure Reviews, 2006, 11, 289-303.	1.7	7
70	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
71	Image-based reconstruction of 3D myocardial infarct geometry for patient specific applications. Proceedings of SPIE, 2015, 9413, .	0.8	7
72	Flow Dynamics in the Aortic Arch and Its Effect on the Arterial Input Function in Cardiac Computed Tomography. Journal of Biomechanical Engineering, 2019, 141, .	0.6	7

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73	Added value of CT myocardial perfusion imaging. Current Cardiovascular Imaging Reports, 2008, 1, 96-104.	0.4	6
74	Left Ventricular Function, Myocardial Perfusion and Viability. Cardiology Clinics, 2009, 27, 645-654.	0.9	6
75	Evaluation of equivalence of upslope method-derived myocardial perfusion index and transfer constant based on two-compartment tracer kinetic model. , 2010, , .		3
76	Efficacy of cardiac resynchronization in acutely infarcted canine hearts with electromechanical dyssynchrony. Heart Rhythm, 2014, 11, 1819-1826.	0.3	3
77	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.	0.8	3
78	Effect of intravenous infusion of iodinated contrast media on the coronary blood flow in dogs. IJC Heart and Vasculature, 2016, 12, 11-14.	0.6	3
79	Coronary flow reserve by CT perfusion. Journal of Nuclear Cardiology, 2010, 17, 540-543.	1.4	1
80	Quantification of myocardial blood flow using the combination of bolus tracking and time-registered helical multidetector CT angiography during adenosine stress. , 2010, , .		1
81	Estimation of ventricular fiber orientations in infarcted hearts for patient-specific simulations. , 2013, , .		1
82	Transmural Electrophysiologic and Scar Imaging on Porcine Heart with Chronic Infarction. Lecture Notes in Computer Science, 2012, , 23-32.	1.0	1
83	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, .	0.6	1
84	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.	0.7	0
85	CT Detection of Myocardial Perfusion, Infarction, and Viability. , 2010, , 148-154.		0