

Frits W Prinzen

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

182
papers

7,053
citations

46
h-index

79
g-index

203
ext. papers

8,439
ext. citations

4.7
avg, IF

5.77
L-index

#	Paper	IF	Citations
182	Electrical management of heart failure: from pathophysiology to treatment.. <i>European Heart Journal</i> , 2022 ,	9.5	5
181	Vectorcardiographic QRS area as a predictor of response to cardiac resynchronization therapy.. <i>Journal of Geriatric Cardiology</i> , 2022 , 19, 9-20	1.7	1
180	Left Ventricular Myocardial Septal Pacing in Close Proximity to LBB Does Not Prolong the Duration of the Left Ventricular Lateral Wall Depolarization Compared to LBB Pacing.. <i>Frontiers in Cardiovascular Medicine</i> , 2021 , 8, 787414	5.4	2
179	Left atrial reverse remodeling predicts long-term survival after cardiac resynchronization therapy. <i>Journal of Echocardiography</i> , 2021 , 1	1.6	0
178	Exploring the cause of conduction delays in patients with repaired Tetralogy of Fallot. <i>Europace</i> , 2021 , 23, i105-i112	3.9	2
177	Ventricular activation pattern assessment during right ventricular pacing: Ultra-high-frequency ECG study. <i>Journal of Cardiovascular Electrophysiology</i> , 2021 , 32, 1385-1394	2.7	5
176	Optimizing lead placement for pacing in dyssynchronous heart failure: The patient in the lead. <i>Heart Rhythm</i> , 2021 , 18, 1024-1032	6.7	1
175	3-Dimensional ventricular electrical activation pattern assessed from a novel high-frequency electrocardiographic imaging technique: principles and clinical importance. <i>Scientific Reports</i> , 2021 , 11, 11469	4.9	0
174	Reconstruction of three-dimensional biventricular activation based on the 12-lead electrocardiogram via patient-specific modelling. <i>Europace</i> , 2021 , 23, 640-647	3.9	14
173	Heart Size Corrected Electrical Dyssynchrony and Its Impact on Sex-Specific Response to Cardiac Resynchronization Therapy. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2021 , 14, e008452	6.4	1
172	The value of septal rebound stretch analysis for the prediction of volumetric response to cardiac resynchronization therapy. <i>European Heart Journal Cardiovascular Imaging</i> , 2021 , 22, 37-45	4.1	6
171	Second heart sound splitting as an indicator of interventricular mechanical dyssynchrony using a novel splitting detection algorithm. <i>Physiological Reports</i> , 2021 , 9, e14687	2.6	0
170	Reduction in the QRS area after cardiac resynchronization therapy is associated with survival and echocardiographic response. <i>Journal of Cardiovascular Electrophysiology</i> , 2021 , 32, 813-822	2.7	5
169	Pacing therapy for atrioventricular dromotopathy: a combined computational-experimental-clinical study. <i>Europace</i> , 2021 ,	3.9	2
168	Comparing Ventricular Synchrony in Left Bundle Branch and Left Ventricular Septal Pacing in Pacemaker Patients. <i>Journal of Clinical Medicine</i> , 2021 , 10,	5.1	8
167	Acute recoordination rather than functional hemodynamic improvement determines reverse remodelling by cardiac resynchronisation therapy. <i>International Journal of Cardiovascular Imaging</i> , 2021 , 37, 1903-1911	2.5	3
166	Piezo1 Mechanosensitive Ion Channel Mediates Stretch-Induced Nppb Expression in Adult Rat Cardiac Fibroblasts. <i>Cells</i> , 2021 , 10,	7.9	1

165	Left bundle branch pacing compared to left ventricular septal myocardial pacing increases interventricular dyssynchrony but accelerates left ventricular lateral wall depolarization. <i>Heart Rhythm</i> , 2021 , 18, 1281-1289	6.7	11
164	Hemodynamics-driven mathematical model of first and second heart sound generation. <i>PLoS Computational Biology</i> , 2021 , 17, e1009361	5	0
163	A computationally efficient physiologically comprehensive 3D-0D closed-loop model of the heart and circulation. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2021 , 386, 114092	5.7	5
162	Electro-energetics of Biventricular, Septal and Conduction System Pacing.. <i>Arrhythmia and Electrophysiology Review</i> , 2021 , 10, 250-257	3.2	0
161	Should we still monitor QTc duration in frail older patients on low-dose haloperidol? A prospective observational cohort study. <i>Age and Ageing</i> , 2020 , 49, 829-836	3	0
160	Strategies to Improve Selection of Patients Without Typical Left Bundle Branch Block for Cardiac Resynchronization Therapy. <i>JACC: Clinical Electrophysiology</i> , 2020 , 6, 129-142	4.6	8
159	Association between heart failure aetiology and magnitude of echocardiographic remodelling and outcome of cardiac resynchronization therapy. <i>ESC Heart Failure</i> , 2020 , 7, 645-653	3.7	7
158	The influence of scar on the spatio-temporal relationship between electrical and mechanical activation in heart failure patients. <i>Europace</i> , 2020 , 22, 777-786	3.9	4
157	Short-Term Hemodynamic and Electrophysiological Effects of Cardiac Resynchronization by Left Ventricular Septal Pacing. <i>Journal of the American College of Cardiology</i> , 2020 , 75, 347-359	15.1	42
156	Reply to the Editor - Regarding Multisite pacing strategies: Solutions looking for a problem?. <i>Heart Rhythm O2</i> , 2020 , 1, 315-316	1.5	
155	Surveillance of COVID-19 in the General Population Using an Online Questionnaire: Report From 18,161 Respondents in China. <i>JMIR Public Health and Surveillance</i> , 2020 , 6, e18576	11.4	28
154	To what extent are perfusion defects seen by myocardial perfusion SPECT in patients with left bundle branch block related to myocardial infarction, ECG characteristics, and myocardial wall motion?. <i>Journal of Nuclear Cardiology</i> , 2020 , 1	2.1	1
153	Evaluating multisite pacing strategies in cardiac resynchronization therapy in the preclinical setting. <i>Heart Rhythm O2</i> , 2020 , 1, 111-119	1.5	6
152	Impact of paced left ventricular dyssynchrony on left ventricular reverse remodeling after cardiac resynchronization therapy. <i>Journal of Cardiovascular Electrophysiology</i> , 2020 , 31, 494-502	2.7	4
151	Novel ultra-high-frequency electrocardiogram tool for the description of the ventricular depolarization pattern before and during cardiac resynchronization. <i>Journal of Cardiovascular Electrophysiology</i> , 2020 , 31, 300-307	2.7	8
150	Evaluating Electrocardiography-Based Identification of Cardiac Resynchronization Therapy Responders Beyond Current Left Bundle Branch Block Definitions. <i>JACC: Clinical Electrophysiology</i> , 2020 , 6, 193-203	4.6	7
149	Dynamic atrioventricular delay programming improves ventricular electrical synchronization as evaluated by 3D vectorcardiography. <i>Journal of Electrocardiology</i> , 2020 , 58, 1-6	1.4	7
148	Novel bradycardia pacing strategies. <i>Heart</i> , 2020 , 106, 1883-1889	5.1	6

147	Sequential His bundle and left ventricular pacing for cardiac resynchronization. <i>Journal of Cardiovascular Electrophysiology</i> , 2020 , 31, 2448-2454	2.7	12
146	Differentiating the effects of β adrenergic stimulation and stretch on calcium and force dynamics using a novel electromechanical cardiomyocyte model. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2020 , 319, H519-H530	5.2	3
145	Investigating myocardial work as a CRT response predictor is not a waste of work. <i>European Heart Journal</i> , 2020 , 41, 3824-3826	9.5	2
144	Fully automated QRS area measurement for predicting response to cardiac resynchronization therapy. <i>Journal of Electrocardiology</i> , 2020 , 63, 159-163	1.4	2
143	Echocardiographic Assessment of Left Bundle Branch-Related Strain Dyssynchrony: A Comparison With Tagged MRI. <i>Ultrasound in Medicine and Biology</i> , 2019 , 45, 2063-2074	3.5	4
142	Response to Letter From Verecke Regarding, "QRS Area Is a Strong Determinant of Outcome in Cardiac Resynchronization Therapy". <i>Circulation: Arrhythmia and Electrophysiology</i> , 2019 , 12, e007297	6.4	
141	The Left and Right Ventricles Respond Differently to Variation of Pacing Delays in Cardiac Resynchronization Therapy: A Combined Experimental- Computational Approach. <i>Frontiers in Physiology</i> , 2019 , 10, 17	4.6	9
140	Atrioventricular optimization in cardiac resynchronization therapy with quadripolar leads: should we optimize every pacing configuration including multi-point pacing?. <i>Europace</i> , 2019 , 21, e11-e19	3.9	4
139	Hemodynamic Optimization in Cardiac Resynchronization Therapy: Should We Aim For $\Delta P/dt$ or Stroke Work?. <i>JACC: Clinical Electrophysiology</i> , 2019 , 5, 1013-1025	4.6	3
138	Integration of cardiac magnetic resonance imaging, electrocardiographic imaging, and coronary venous computed tomography angiography for guidance of left ventricular lead positioning. <i>Europace</i> , 2019 , 21, 626-635	3.9	7
137	Relative Impact of Right Ventricular Electromechanical Dyssynchrony Versus Pulmonary Regurgitation on Right Ventricular Dysfunction and Exercise Intolerance in Patients After Repair of Tetralogy of Fallot. <i>Journal of the American Heart Association</i> , 2019 , 8, e010903	6	20
136	Atrioventricular dromotrophy: evidence for a distinctive entity in heart failure with prolonged PR interval?. <i>Europace</i> , 2018 , 20, 1067-1077	3.9	13
135	Electrical Substrates Driving Response to Cardiac Resynchronization Therapy: A Combined Clinical-Computational Evaluation. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2018 , 11, e005647	6.4	17
134	Relationship between vectorcardiographic QRS, myocardial scar quantification, and response to cardiac resynchronization therapy. <i>Journal of Electrocardiology</i> , 2018 , 51, 457-463	1.4	11
133	Characterizing left ventricular mechanical and electrical activation in patients with normal and impaired systolic function using a non-fluoroscopic cardiovascular navigation system. <i>Journal of Interventional Cardiac Electrophysiology</i> , 2018 , 51, 205-214	2.4	1
132	Pressure-Volume Loop Analysis of Multipoint Pacing With a Quadripolar Left Ventricular Lead in Cardiac Resynchronization Therapy. <i>JACC: Clinical Electrophysiology</i> , 2018 , 4, 881-889	4.6	14
131	Can We Use the Intrinsic Left Ventricular Delay (QLV) to Optimize the Pacing Configuration for Cardiac Resynchronization Therapy With a Quadripolar Left Ventricular Lead?. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2018 , 11, e005912	6.4	9
130	Refining success of cardiac resynchronization therapy using a simple score predicting the amount of reverse ventricular remodelling: results from the Markers and Response to CRT (MARC) study. <i>Europace</i> , 2018 , 20, e1-e10	3.9	108

129	Tailoring device settings in cardiac resynchronization therapy using electrograms from pacing electrodes. <i>Europace</i> , 2018 , 20, 1146-1153	3.9	2
128	Improved acute haemodynamic response to cardiac resynchronization therapy using multipoint pacing cannot solely be explained by better resynchronization. <i>Journal of Electrocardiology</i> , 2018 , 51, S61-S66	1.4	7
127	The definition of left bundle branch block influences the response to cardiac resynchronization therapy. <i>International Journal of Cardiology</i> , 2018 , 269, 165-169	3.2	29
126	Response to cardiac resynchronization therapy is determined by intrinsic electrical substrate rather than by its modification. <i>International Journal of Cardiology</i> , 2018 , 270, 143-148	3.2	13
125	Integrated Assessment of Left Ventricular Electrical Activation and Myocardial Strain Mapping in Heart Failure Patients: A Holistic Diagnostic Approach for Endocardial Cardiac Resynchronization Therapy, Ablation of Ventricular Tachycardia, and Biological Therapy. <i>JACC: Clinical Electrophysiology</i> , 2018 , 4, 138-146	4.6	1
124	Linking cross-bridge cycling kinetics to response to cardiac resynchronization therapy: a multiscale modelling study. <i>Europace</i> , 2018 , 20, iii87-iii93	3.9	2
123	QRS Area Is a Strong Determinant of Outcome in Cardiac Resynchronization Therapy. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2018 , 11, e006497	6.4	37
122	Pathobiology of cardiac dyssynchrony and resynchronization therapy. <i>Europace</i> , 2018 , 20, 1898-1909	3.9	18
121	Physiology of Cardiac Pacing and Resynchronization 2017 , 213-248		1
120	Reservations about the Selvester QRS score in left bundle branch block - Experience in patients with transcatheter aortic valve implantation. <i>Journal of Electrocardiology</i> , 2017 , 50, 261-267	1.4	1
119	InVivo Validation of Electrocardiographic Imaging. <i>JACC: Clinical Electrophysiology</i> , 2017 , 3, 232-242	4.6	57
118	Prediction of optimal cardiac resynchronization by vectors extracted from electrograms in dyssynchronous canine hearts. <i>Journal of Cardiovascular Electrophysiology</i> , 2017 , 28, 944-951	2.7	5
117	Intermittent pacing therapy favorably modulates infarct remodeling. <i>Basic Research in Cardiology</i> , 2017 , 112, 28	11.8	1
116	The relation between local repolarization and T-wave morphology in heart failure patients. <i>International Journal of Cardiology</i> , 2017 , 241, 270-276	3.2	4
115	Mapping-guided characterization of mechanical and electrical activation patterns in patients with normal systolic function using a sensor-based tracking technology. <i>Europace</i> , 2017 , 19, 1700-1709	3.9	1
114	Pulmonary Right Ventricular Resynchronization in Congenital Heart Disease: Acute Improvement in Right Ventricular Mechanics and Contraction Efficiency. <i>Circulation: Cardiovascular Imaging</i> , 2017 , 10,	3.9	29
113	Local microRNA-133a downregulation is associated with hypertrophy in the dyssynchronous heart. <i>ESC Heart Failure</i> , 2017 , 4, 241-251	3.7	12
112	Combining computer modelling and cardiac imaging to understand right ventricular pump function. <i>Cardiovascular Research</i> , 2017 , 113, 1486-1498	9.9	11

111	Echocardiographic Prediction of Cardiac Resynchronization Therapy Response Requires Analysis of Both Mechanical Dyssynchrony and Right Ventricular Function: A Combined Analysis of Patient Data and Computer Simulations. <i>Journal of the American Society of Echocardiography</i> , 2017 , 30, 1012-1020.e2	5.8	13
110	Regional Left Ventricular Electrical Activation and Peak Contraction Are Closely Related in Candidates for Cardiac Resynchronization Therapy. <i>JACC: Clinical Electrophysiology</i> , 2017 , 3, 854-862	4.6	7
109	Enhancing Response in the Cardiac Resynchronization Therapy Patient: The BBIPerspective-Bench, Bits, and Bedside. <i>JACC: Clinical Electrophysiology</i> , 2017 , 3, 1203-1219	4.6	11
108	Validation of myocardial perfusion quantification by dynamic CT in an ex-vivo porcine heart model. <i>International Journal of Cardiovascular Imaging</i> , 2017 , 33, 1821-1830	2.5	7
107	Determinants of biventricular cardiac function: a mathematical model study on geometry and myofiber orientation. <i>Biomechanics and Modeling in Mechanobiology</i> , 2017 , 16, 721-729	3.8	14
106	Exploring the Electrophysiologic and Hemodynamic Effects of Cardiac Resynchronization Therapy: From Bench to Bedside and Vice Versa. <i>Heart Failure Clinics</i> , 2017 , 13, 43-52	3.3	2
105	Evaluation of a Rapid Anisotropic Model for ECG Simulation. <i>Frontiers in Physiology</i> , 2017 , 8, 265	4.6	20
104	Evaluation of the use of unipolar voltage amplitudes for detection of myocardial scar assessed by cardiac magnetic resonance imaging in heart failure patients. <i>PLoS ONE</i> , 2017 , 12, e0180637	3.7	6
103	Does heart-type fatty acid-binding protein predict clinical outcomes after pediatric cardiac surgery?. <i>Annals of Pediatric Cardiology</i> , 2017 , 10, 245-247	0.8	1
102	Left univentricular pacing for cardiac resynchronization therapy. <i>Europace</i> , 2017 , 19, 912-919	3.9	8
101	T-wave area as biomarker of clinical response to cardiac resynchronization therapy. <i>Europace</i> , 2016 , 18, 1077-85	3.9	9
100	Vectorcardiographic QRS area identifies delayed left ventricular lateral wall activation determined by electroanatomic mapping in candidates for cardiac resynchronization therapy. <i>Heart Rhythm</i> , 2016 , 13, 217-25	6.7	30
99	Right Ventricular Imaging and Computer Simulation for Electromechanical Substrate Characterization in Arrhythmogenic Right Ventricular Cardiomyopathy. <i>Journal of the American College of Cardiology</i> , 2016 , 68, 2185-2197	15.1	33
98	Preoperative Sildenafil administration in children undergoing cardiac surgery: a randomized controlled preconditioning study. <i>European Journal of Cardio-thoracic Surgery</i> , 2016 , 49, 1403-10	3	4
97	Feasibility and Acute Hemodynamic Effect of Left Ventricular Septal Pacing by Transvenous Approach Through the Interventricular Septum. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2016 , 9, e003344	6.4	58
96	Pathophysiology of dyssynchrony: of squirrels and broken bones. <i>Netherlands Heart Journal</i> , 2016 , 24, 4-10	2.2	2
95	Septal flash and septal rebound stretch have different underlying mechanisms. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2016 , 310, H394-403	5.2	16
94	16-68: Right ventricular dysfunction complicates prediction of response to cardiac resynchronization therapy by mechanical dyssynchrony parameters: combined clinical-modeling approach. <i>Europace</i> , 2016 , 18, i17-i17	3.9	

93	Assessment of left ventricular mechanical dyssynchrony in left bundle branch block canine model: Comparison between cine and tagged MRI. <i>Journal of Magnetic Resonance Imaging</i> , 2016 , 44, 956-63	5.6	1
92	Electrical remodelling in patients with iatrogenic left bundle branch block. <i>Europace</i> , 2016 , 18, iv44-iv52	3.9	6
91	Why QRS Duration Should Be Replaced by Better Measures of Electrical Activation to Improve Patient Selection for Cardiac Resynchronization Therapy. <i>Journal of Cardiovascular Translational Research</i> , 2016 , 9, 257-65	3.3	16
90	Toward Sex-Specific Guidelines for Cardiac Resynchronization Therapy?. <i>Journal of Cardiovascular Translational Research</i> , 2016 , 9, 12-22	3.3	10
89	A Possible Role for Pacing the Left Ventricular Septum in Cardiac Resynchronization Therapy. <i>JACC: Clinical Electrophysiology</i> , 2016 , 2, 413-422	4.6	15
88	Optimization of left ventricular pacing site plus multipoint pacing improves remodeling and clinical response to cardiac resynchronization therapy at 1 year. <i>Heart Rhythm</i> , 2016 , 13, 1644-51	6.7	56
87	T-wave area predicts response to cardiac resynchronization therapy in patients with left bundle branch block. <i>Journal of Cardiovascular Electrophysiology</i> , 2015 , 26, 176-83	2.7	31
86	Trends in the occurrence of new conduction abnormalities after transcatheter aortic valve implantation. <i>Catheterization and Cardiovascular Interventions</i> , 2015 , 85, E144-52	2.7	40
85	Mechanistic insights into the benefits of multisite pacing in cardiac resynchronization therapy: The importance of electrical substrate and rate of left ventricular activation. <i>Heart Rhythm</i> , 2015 , 12, 2449-57	6.7	32
84	Left ventricular lead placement in the latest activated region guided by coronary venous electroanatomic mapping. <i>Europace</i> , 2015 , 17, 84-93	3.9	41
83	Comparison of septal strain patterns in dyssynchronous heart failure between speckle tracking echocardiography vendor systems. <i>Journal of Electrocardiology</i> , 2015 , 48, 609-16	1.4	7
82	Multipoint pacing by a left ventricular quadripolar lead improves the acute hemodynamic response to CRT compared with conventional biventricular pacing at any site. <i>Heart Rhythm</i> , 2015 , 12, 975-81	6.7	77
81	Vectorcardiography for optimization of stimulation intervals in cardiac resynchronization therapy. <i>Journal of Cardiovascular Translational Research</i> , 2015 , 8, 128-37	3.3	16
80	In vivo electromechanical assessment of heart failure patients with prolonged QRS duration. <i>Heart Rhythm</i> , 2015 , 12, 1259-67	6.7	20
79	An in-silico analysis of the effect of heart position and orientation on the ECG morphology and vectorcardiogram parameters in patients with heart failure and intraventricular conduction defects. <i>Journal of Electrocardiology</i> , 2015 , 48, 617-25	1.4	26
78	Differentiating Electromechanical From Non-Electrical Substrates of Mechanical Discoordination to Identify Responders to Cardiac Resynchronization Therapy. <i>Circulation: Cardiovascular Imaging</i> , 2015 , 8, e003744	3.9	86
77	The synthesized vectorcardiogram resembles the measured vectorcardiogram in patients with dyssynchronous heart failure. <i>Journal of Electrocardiology</i> , 2015 , 48, 586-92	1.4	14
76	Exploring the Electrophysiologic and Hemodynamic Effects of Cardiac Resynchronization Therapy: From Bench to Bedside and Vice Versa. <i>Cardiac Electrophysiology Clinics</i> , 2015 , 7, 599-608	1.4	1

75	Fast Simulation of Mechanical Heterogeneity in the Electrically Asynchronous Heart Using the MultiPatch Module. <i>PLoS Computational Biology</i> , 2015 , 11, e1004284	5	41
74	Opportunities and challenges of current electrophysiology research: a plea to establish translational electrophysiology curricula. <i>Europace</i> , 2015 , 17, 825-33	3.9	9
73	Vectorcardiographic QRS area as a novel predictor of response to cardiac resynchronization therapy. <i>Journal of Electrocardiology</i> , 2015 , 48, 45-52	1.4	49
72	Electrophysiological and haemodynamic effects of vernakalant and flecainide in dyssynchronous canine hearts. <i>Europace</i> , 2014 , 16, 1249-56	3.9	5
71	Determination of the longest inpatient left ventricular electrical delay may predict acute hemodynamic improvement in patients after cardiac resynchronization therapy. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2014 , 7, 377-83	6.4	68
70	Does cardiac resynchronization therapy benefit patients with right bundle branch block: cardiac resynchronization therapy has a role in patients with right bundle branch block. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2014 , 7, 532-42	6.4	33
69	Clinical pacing post-conditioning during revascularization after AMI. <i>JACC: Cardiovascular Imaging</i> , 2014 , 7, 620-6	8.4	14
68	Mechano-electrical coupling as framework for understanding functional remodeling during LBBB and CRT. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2014 , 306, H1644-59	5.2	15
67	Different regions of latest electrical activation during left bundle-branch block and right ventricular pacing in cardiac resynchronization therapy patients determined by coronary venous electro-anatomic mapping. <i>European Journal of Heart Failure</i> , 2014 , 16, 1214-22	12.3	31
66	Influence of left ventricular lead position relative to scar location on response to cardiac resynchronization therapy: a model study. <i>Europace</i> , 2014 , 16 Suppl 4, iv62-iv68	3.9	27
65	Patient-specific modelling of cardiac electrophysiology in heart-failure patients. <i>Europace</i> , 2014 , 16 Suppl 4, iv56-iv61	3.9	43
64	Strategies to improve cardiac resynchronization therapy. <i>Nature Reviews Cardiology</i> , 2014 , 11, 481-93	14.8	51
63	Acute electrical and hemodynamic effects of multisite left ventricular pacing for cardiac resynchronization therapy in the dyssynchronous canine heart. <i>Heart Rhythm</i> , 2014 , 11, 119-25	6.7	40
62	The value of the 12-lead ECG for evaluation and optimization of cardiac resynchronization therapy in daily clinical practice. <i>Journal of Electrocardiology</i> , 2014 , 47, 202-11	1.4	27
61	Occurrence, fate and consequences of ventricular conduction abnormalities after transcatheter aortic valve implantation. <i>EuroIntervention</i> , 2014 , 9, 1142-50	3.1	86
60	Stretch-induced upregulation of connective tissue growth factor in rabbit cardiomyocytes. <i>Journal of Cardiovascular Translational Research</i> , 2013 , 6, 861-9	3.3	15
59	Comparative electromechanical and hemodynamic effects of left ventricular and biventricular pacing in dyssynchronous heart failure: electrical resynchronization versus left-right ventricular interaction. <i>Journal of the American College of Cardiology</i> , 2013 , 62, 2395-2403	15.1	76
58	Cardiac resynchronisation therapy optimisation strategies: systematic classification, detailed analysis, minimum standards and a roadmap for development and testing. <i>International Journal of Cardiology</i> , 2013 , 170, 118-31	3.2	30

57	Cardiac resynchronization therapy: state-of-the-art of current applications, guidelines, ongoing trials, and areas of controversy. <i>Circulation</i> , 2013 , 128, 2407-18	16.7	77
56	Transseptal conduction as an important determinant for cardiac resynchronization therapy, as revealed by extensive electrical mapping in the dyssynchronous canine heart. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2013 , 6, 682-9	6.4	43
55	Interplay of electrical wavefronts as determinant of the response to cardiac resynchronization therapy in dyssynchronous canine hearts. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2013 , 6, 924-31	6.4	28
54	The "missing" link between acute hemodynamic effect and clinical response. <i>Journal of Cardiovascular Translational Research</i> , 2012 , 5, 188-95	3.3	21
53	Modeling cardiac electromechanics and mechanoelectrical coupling in dyssynchronous and failing hearts: insight from adaptive computer models. <i>Journal of Cardiovascular Translational Research</i> , 2012 , 5, 159-69	3.3	21
52	Mechanistic evaluation of echocardiographic dyssynchrony indices: patient data combined with multiscale computer simulations. <i>Circulation: Cardiovascular Imaging</i> , 2012 , 5, 491-9	3.9	53
51	2012 EHRA/HRS expert consensus statement on cardiac resynchronization therapy in heart failure: implant and follow-up recommendations and management. <i>Europace</i> , 2012 , 14, 1236-86	3.9	195
50	Septal rebound stretch is a strong predictor of outcome after cardiac resynchronization therapy. <i>Journal of Cardiac Failure</i> , 2012 , 18, 404-12	3.3	39
49	Mechano-electrical feedback explains T-wave morphology and optimizes cardiac pump function: insight from a multi-scale model. <i>Progress in Biophysics and Molecular Biology</i> , 2012 , 110, 359-71	4.7	6
48	2012 EHRA/HRS expert consensus statement on cardiac resynchronization therapy in heart failure: implant and follow-up recommendations and management. <i>Heart Rhythm</i> , 2012 , 9, 1524-76	6.7	170
47	Electrical and mechanical ventricular activation during left bundle branch block and resynchronization. <i>Journal of Cardiovascular Translational Research</i> , 2012 , 5, 117-26	3.3	30
46	Left bundle-branch block induced by transcatheter aortic valve implantation increases risk of death. <i>Circulation</i> , 2012 , 126, 720-8	16.7	206
45	Vectorcardiography as a tool for easy optimization of cardiac resynchronization therapy in canine left bundle branch block hearts. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2012 , 5, 544-52	6.4	17
44	Endocardial left ventricular pacing improves cardiac resynchronization therapy in chronic asynchronous infarction and heart failure models. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2012 , 5, 191-200	6.4	75
43	Septal deformation patterns delineate mechanical dyssynchrony and regional differences in contractility: analysis of patient data using a computer model. <i>Circulation: Heart Failure</i> , 2012 , 5, 87-96	7.6	92
42	Similarities and differences between electrocardiogram signs of left bundle-branch block and left-ventricular uncoupling. <i>Europace</i> , 2012 , 14 Suppl 5, v33-v39	3.9	25
41	Mechanoelectrical coupling enhances initiation and affects perpetuation of atrial fibrillation during acute atrial dilation. <i>Heart Rhythm</i> , 2011 , 8, 429-36	6.7	38
40	Cardiac resynchronization therapy: refocus on the electrical substrate. <i>Circulation Journal</i> , 2011 , 75, 1297-304	7.3	22

39	Non-responders to cardiac resynchronization therapy: the magnitude of the problem and the issues. <i>Circulation Journal</i> , 2011 , 75, 521-7	2.9	169
38	The effect of reduced intercellular coupling on electrocardiographic signs of left ventricular hypertrophy. <i>Journal of Electrocardiology</i> , 2011 , 44, 571-6	1.4	29
37	Repolarization changes in patients with heart failure receiving cardiac resynchronization therapy-signs of cardiac memory. <i>Journal of Electrocardiology</i> , 2011 , 44, 590-8	1.4	21
36	Mechano-energetics of the asynchronous and resynchronized heart. <i>Heart Failure Reviews</i> , 2011 , 16, 215-24	5	41
35	Comparison of a non-invasive arterial pulse contour technique and echo Doppler aorta velocity-time integral on stroke volume changes in optimization of cardiac resynchronization therapy. <i>Europace</i> , 2011 , 13, 87-95	3.9	39
34	Baseline left ventricular dP/dtmax rather than the acute improvement in dP/dtmax predicts clinical outcome in patients with cardiac resynchronization therapy. <i>European Journal of Heart Failure</i> , 2011 , 13, 1126-32	12.3	64
33	Myocardial infarction does not preclude electrical and hemodynamic benefits of cardiac resynchronization therapy in dyssynchronous canine hearts. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2010 , 3, 361-8	6.4	59
32	Stretch-induced hypertrophy of isolated adult rabbit cardiomyocytes. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2010 , 299, H780-7	5.2	30
31	Beneficial effects of biventricular pacing in chronically right ventricular paced patients with mild cardiomyopathy. <i>Europace</i> , 2010 , 12, 223-9	3.9	65
30	Left ventricular endocardial pacing improves resynchronization therapy in canine left bundle-branch hearts. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2009 , 2, 580-7	6.4	95
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28	Septal rebound stretch reflects the functional substrate to cardiac resynchronization therapy and predicts volumetric and neurohormonal response. <i>European Journal of Heart Failure</i> , 2009 , 11, 863-71	12.3	106
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