Daniel A Pijnappels

List of Publications by Year
in descending order

66	2,063	218677 26	243625 44
papers	citations	h-index	g-index

69	69	69	2924
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Epicardial Cells of Human Adults Can Undergo an Epithelial-to-Mesenchymal Transition and Obtain Characteristics of Smooth Muscle Cells In Vitro. Stem Cells, 2007, 25, 271-278.	3.2	160
2	Forced Alignment of Mesenchymal Stem Cells Undergoing Cardiomyogenic Differentiation Affects Functional Integration With Cardiomyocyte Cultures. Circulation Research, 2008, 103, 167-176.	4.5	131
3	Whole human heart histology to validate electroanatomical voltage mapping in patients with non-ischaemic cardiomyopathy and ventricular tachycardia. European Heart Journal, 2018, 39, 2867-2875.	2.2	113
4	Light-induced termination of spiral wave arrhythmias by optogenetic engineering of atrial cardiomyocytes. Cardiovascular Research, 2014, 104, 194-205.	3.8	108
5	Human Adult Bone Marrow Mesenchymal Stem Cells Repair Experimental Conduction Block in Rat Cardiomyocyte Cultures. Journal of the American College of Cardiology, 2005, 46, 1943-1952.	2.8	101
6	Outcome of Ventricular Tachycardia Ablation in Patients With Nonischemic Cardiomyopathy. Circulation: Arrhythmia and Electrophysiology, 2013, 6, 513-521.	4.8	93
7	DNA damage-induced PARP1 activation confers cardiomyocyte dysfunction through NAD+ depletion in experimental atrial fibrillation. Nature Communications, 2019, 10, 1307.	12.8	85
8	Optogenetic termination of ventricular arrhythmias in the whole heart: towards biological cardiac rhythm management. European Heart Journal, 2017, 38, ehw574.	2.2	82
9	Human Embryonic and Fetal Mesenchymal Stem Cells Differentiate toward Three Different Cardiac Lineages in Contrast to Their Adult Counterparts. PLoS ONE, 2011, 6, e24164.	2.5	64
10	Progressive increase in conduction velocity across human mesenchymal stem cells is mediated by enhanced electrical coupling. Cardiovascular Research, 2006, 72, 282-291.	3.8	60
11	Forced Myocardin Expression Enhances the Therapeutic Effect of Human Mesenchymal Stem Cells After Transplantation in Ischemic Mouse Hearts. Stem Cells, 2008, 26, 1083-1093.	3.2	60
12	Mesenchymal stem cells from ischemic heart disease patients improve left ventricular function after acute myocardial infarction. American Journal of Physiology - Heart and Circulatory Physiology, 2007, 293, H2438-H2447.	3.2	57
13	Localized Optogenetic Targeting of Rotors in Atrial Cardiomyocyte Monolayers. Circulation: Arrhythmia and Electrophysiology, 2017, 10, .	4.8	50
14	An automated hybrid bioelectronic system for autogenous restoration of sinus rhythm in atrial fibrillation. Science Translational Medicine, 2019, 11, .	12.4	50
15	Optogenetics enables real-time spatiotemporal control over spiral wave dynamics in an excitable cardiac system. ELife, 2018, 7, .	6.0	49
16	Dynamic loading of human engineered heart tissue enhances contractile function and drives a desmosome-linked disease phenotype. Science Translational Medicine, 2021, 13, .	12.4	48
17	Fibroblasts from human postmyocardial infarction scars acquire properties of cardiomyocytes after transduction with a recombinant myocardin gene. FASEB Journal, 2007, 21, 3369-3379.	0.5	41
18	Connexin43 silencing in myofibroblasts prevents arrhythmias in myocardial cultures: role of maximal diastolic potential. Cardiovascular Research, 2012, 93, 434-444.	3.8	40

#	ARTICLE	IF	CITATIONS
19	Cardiomyogenic differentiationâ€independent improvement of cardiac function by human cardiomyocyte progenitor cell injection in ischaemic mouse hearts. Journal of Cellular and Molecular Medicine, 2012, 16, 1508-1521.	3.6	39
20	Insulin-Like Growth Factor Promotes Cardiac Lineage Induction In Vitro by Selective Expansion of Early Mesoderm. Stem Cells, 2014, 32, 1493-1502.	3.2	38
21	Antiproliferative treatment of myofibroblasts prevents arrhythmias in vitro by limiting myofibroblast-induced depolarization. Cardiovascular Research, 2011, 90, 295-304.	3.8	33
22	Identification of Functional Variant Enhancers Associated With Atrial Fibrillation. Circulation Research, 2020, 127, 229-243.	4.5	33
23	Optogenetic manipulation of anatomical re-entry by light-guided generation of a reversible local conduction block. Cardiovascular Research, 2017, 113, 354-366.	3.8	31
24	Atrium-Specific Kir3.x Determines Inducibility, Dynamics, and Termination of Fibrillation by Regulating Restitution-Driven Alternans. Circulation, 2013, 128, 2732-2744.	1.6	30
25	Engraftment Patterns of Human Adult Mesenchymal Stem Cells Expose Electrotonic and Paracrine Proarrhythmic Mechanisms in Myocardial Cell Cultures. Circulation: Arrhythmia and Electrophysiology, 2013, 6, 380-391.	4.8	30
26	Gap Junctional Coupling with Cardiomyocytes is Necessary but Not Sufficient for Cardiomyogenic Differentiation of Cocultured Human Mesenchymal Stem Cells. Stem Cells, 2012, 30, 1236-1245.	3.2	28
27	Cardiomyocyteâ€“myofibroblast contact dynamism is modulated by connexinâ€43. FASEB Journal, 2019, 33, 10453-10468.	0.5	28
28	Resynchronization of Separated Rat Cardiomyocyte Fields With Genetically Modified Human Ventricular Scar Fibroblasts. Circulation, 2007, 116, 2018-2028.	1.6	24
29	Allosteric Modulation of K _v 11.1 (hERG) Channels Protects Against Drug-Induced Ventricular Arrhythmias. Circulation: Arrhythmia and Electrophysiology, 2016, 9, e003439.	4.8	24
30	Interaction between myofibroblasts and stem cells in the fibrotic heart: balancing between deterioration and regeneration. Cardiovascular Research, 2014, 102, 224-231.	3.8	23
31	Islands of spatially discordant APD alternans underlie arrhythmogenesis by promoting electrotonic dyssynchrony in models of fibrotic rat ventricular myocardium. Scientific Reports, 2016, 6, 24334.	3.3	22
32	Generation and primary characterization of iAM-1, a versatile new line of conditionally immortalized atrial myocytes with preserved cardiomyogenic differentiation capacity. Cardiovascular Research, 2018, 114, 1848-1859.	3.8	22
33	Prolongation of minimal action potential duration in sustained fibrillation decreases complexity by transient destabilization. Cardiovascular Research, 2013, 97, 161-170.	3.8	21
34	Multicellular In vitro Models of Cardiac Arrhythmias: Focus on Atrial Fibrillation. Frontiers in Cardiovascular Medicine, 2020, 7, 43.	2.4	21
35	The integrative aspects of cardiac physiology and their implications for cellâ€based therapy. Annals of the New York Academy of Sciences, 2010, 1188, 7-14.	3.8	20
36	Fast nonclinical ventricular tachycardia inducible after ablation in patients with structural heart disease: Definition and clinical implications. Heart Rhythm, 2018, 15, 668-676.	0.7	19

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37	Fatigue as Presenting Symptom and a High Burden of Premature Ventricular Contractions Are Independently Associated With Increased Ventricular Wall Stress in Patients With Normal Left Ventricular Function. Circulation: Arrhythmia and Electrophysiology, 2015, 8, 1452-1459.	4.8	18
38	RHOA-ROCK signalling is necessary for lateralization and differentiation of the developing sinoatrial node. Cardiovascular Research, 2017, 113, 1186-1197.	3.8	17
39	Similar arrhythmicity in hypertrophic and fibrotic cardiac cultures caused by distinct substrate-specific mechanisms. Cardiovascular Research, 2013, 97, 171-181.	3.8	16
40	Conditional immortalization of human atrial myocytes for the generation of in vitro models of atrial fibrillation. Nature Biomedical Engineering, 2022, 6, 389-402.	22.5	16
41	A Mathematical Model of Neonatal Rat Atrial Monolayers with Constitutively Active Acetylcholine-Mediated K+ Current. PLoS Computational Biology, 2016, 12, e1004946.	3.2	15
42	Optical ventricular cardioversion by local optogenetic targeting and LED implantation in a cardiomyopathic rat model. Cardiovascular Research, 2022, 118, 2293-2303.	3.8	12
43	Optogenetic Engineering of Atrial Cardiomyocytes. Methods in Molecular Biology, 2016, 1408, 319-331.	0.9	12
44	Self-restoration of cardiac excitation rhythm by anti-arrhythmic ion channel gating. ELife, 2020, 9, .	6.0	12
45	Decreased repolarization reserve increases defibrillation threshold by favoring early afterdepolarizations in an in silico model of human ventricular tissue. Heart Rhythm, 2015, 12, 1088-1096.	0.7	11
46	Paradoxical Onset of Arrhythmic Waves from Depolarized Areas in Cardiac Tissue Due to Curvature-Dependent Instability. Physical Review X, 2018, 8, 021077.	8.9	9
47	Constitutively Active Acetylcholine-Dependent Potassium Current Increases Atrial Defibrillation Threshold by Favoring Post-Shock Re-Initiation. Scientific Reports, 2015, 5, 15187.	3.3	7
48	QRS prolongation after premature stimulation is associated with polymorphic ventricular tachycardia in nonischemic cardiomyopathy: Results from the Leiden Nonischemic Cardiomyopathy Study. Heart Rhythm, 2016, 13, 860-869.	0.7	7
49	Brief Report: Misinterpretation of Coculture Differentiation Experiments by Unintended Labeling of Cardiomyocytes Through Secondary Transduction: Delusions and Solutions. Stem Cells, 2012, 30, 2830-2834.	3.2	5
50	Sbk2, a Newly Discovered Atrium-Enriched Regulator of Sarcomere Integrity. Circulation Research, 2022, 131, 24-41.	4.5	5
51	The Effects of Repetitive Use and Pathological Remodeling on Channelrhodopsin Function in Cardiomyocytes. Frontiers in Physiology, 2021, 12, 710020.	2.8	4
52	Depolarization-induced automaticity in rat ventricular cardiomyocytes is based on the gating properties of L-type calcium and slow Kv channels. European Biophysics Journal, 2013, 42, 241-255.	2.2	3
53	Cardiac Anisotropy, Regeneration, and Rhythm. Circulation Research, 2014, 115, e6-7.	4.5	3
54	Forced fusion of human ventricular scar cells with cardiomyocytes suppresses arrhythmogenicity in a co-culture model. Cardiovascular Research, 2015, 107, 601-612.	3.8	3

#	Article	IF	Citations
55	The heart as its own defibrillator. European Heart Journal, 2020, 41, 2829-2832.	2.2	3
56	Universal mechanisms for self-termination of rapid cardiac rhythm. Chaos, 2020, 30, 121107.	2.5	3
57	Response to the Letter by Rose et al. Circulation Research, 2009, 104, e8.	4.5	2
58	Ultrasound-Guided Optogenetic Gene Delivery for Shock-Free Ventricular Rhythm Restoration. Circulation: Arrhythmia and Electrophysiology, 2022, 15, CIRCEP121009886.	4.8	1
59	Prolongation of minimal action potential duration in sustained fibrillation decreases complexity by transient destabilization: reply. Cardiovascular Research, 2013, 98, 156-157.	3.8	0
60	Chatty Cells. JACC: Clinical Electrophysiology, 2016, 2, 583-586.	3.2	0
61	Response by Feola et al to Letter Regarding Article, â€œLocalized Optogenetic Targeting of Rotors in Atrial Cardiomyocyte Monolayersâ€• Circulation: Arrhythmia and Electrophysiology, 2018, 11, e006130.	4.8	0
62	Biological defibrillation. European Heart Journal, 2018, 39, 3915-3917.	2.2	0
63	Optogenetic Control of Arrhythmias. , 2021, , 363-379.		0
64	10.1063/5.0033813.1. , 2020, , .		0
65	Optogenetics for cardiac pacing, resynchronization, and arrhythmia termination. , 2020, , 861-890.		0
66	Conditional immortalization of human cardiomyocytes for translational <i>in vitro</i> modelling of cardiovascular disease. Cardiovascular Research, 2022, 118, e105-e107.	3.8	0