Vladimir Shusterman

List of Publications by Year
in descending order

56	2,331	361413 20	214800 47
papers	citations	h-index	g-index

59	59	59	3366
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Mobile Health Technology Evaluation. American Journal of Preventive Medicine, 2013, 45, 228-236.	3.0	797
2	Upsurge in T-Wave Alternans and Nonalternating Repolarization Instability Precedes Spontaneous Initiation of Ventricular Tachyarrhythmias in Humans. Circulation, 2006, 113, 2880-2887.	1.6	134
3	Atrial contractile dysfunction, fibrosis, and arrhythmias in a mouse model of cardiomyopathy secondary to cardiac-specific overexpression of tumor necrosis factor-Î±. American Journal of Physiology - Heart and Circulatory Physiology, 2005, 289, H1456-H1467.	3.2	122
4	Autonomic nervous system activity and the spontaneous initiation of ventricular tachycardia. Journal of the American College of Cardiology, 1998, 32, 1891-1899.	2.8	121
5	Anger-Induced T-Wave Alternans Predicts Future Ventricular Arrhythmias in Patients With Implantable Cardioverter-Defibrillators. Journal of the American College of Cardiology, 2009, 53, 774-778.	2.8	109
6	Calcium-dependent arrhythmias in transgenic mice with heart failure. American Journal of Physiology - Heart and Circulatory Physiology, 2003, 284, H431-H441.	3.2	107
7	Targeted Replacement of Kv1.5 in the Mouse Leads to Loss of the 4-Aminopyridineâ€“Sensitive Component of I _{K,slow} and Resistance to Drug-Induced QT Prolongation. Circulation Research, 2001, 88, 940-946.	4.5	105
8	Effects of Psychologic Stress on Repolarization and Relationship to Autonomic and Hemodynamic Factors. Journal of Cardiovascular Electrophysiology, 2005, 16, 372-377.	1.7	81
9	Strain-specific patterns of autonomic nervous system activity and heart failure susceptibility in mice. American Journal of Physiology - Heart and Circulatory Physiology, 2002, 282, H2076-H2083.	3.2	67
10	A sodium channel pore mutation causing Brugada syndrome. Heart Rhythm, 2007, 4, 46-53.	0.7	64
11	From baseline to epileptiform activity: A path to synchronized rhythmicity in large-scale neural networks. Physical Review E, 2008, 77, 061911.	2.1	52
12	Regional genomic regulation of cardiac sodiumâ€“calcium exchanger by oestrogen. Journal of Physiology, 2011, 589, 1061-1080.	2.9	46
13	Enhancing the Precision of ECG Baseline Correction: Selective Filtering and Removal of Residual Error. Journal of Biomedical Informatics, 2000, 33, 144-160.	0.7	44
14	Patterns and Features of Families of Traveling Waves in Largeâ€Scale Neuronal Networks. SIAM Journal on Applied Dynamical Systems, 2007, 6, 263-292.	1.6	35
15	Dynamics of low-frequency R-R interval oscillations preceding spontaneous ventricular tachycardia. American Heart Journal, 2000, 139, 126-133.	2.7	32
16	Effect of Î²-adrenergic stimulation on QT interval accommodation. Heart Rhythm, 2011, 8, 263-270.	0.7	32
17	Sympathetic nervous system activity in stress and biofeedback relaxation. IEEE Engineering in Medicine and Biology Magazine, 2005, 24, 52-57.	0.8	28
18	Multidimensional Rhythm Disturbances as a Precursor of Sustained Ventricular Tachyarrhythmias. Circulation Research, 2001, 88, 705-712.	4.5	27

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19	Novel technical solutions for wireless ECG transmission & analysis in the age of the internet cloud. Journal of Electrocardiology, 2013, 46, 540-545.	0.9	26
20	Distinctive RR Dynamics Preceding Two Modes of Onset of Spontaneous Sustained Ventricular Tachycardia. Journal of Cardiovascular Electrophysiology, 1999, 10, 897-904.	1.7	22
21	QT Interval Variability and Adaptation to Heart Rate Changes in Patients with Long QT Syndrome. PACE - Pacing and Clinical Electrophysiology, 2009, 32, 72-81.	1.2	22
22	Tracking repolarization dynamics in real-life data. Journal of Electrocardiology, 2004, 37, 180-186.	0.9	20
23	Implantable Cardioverter-Defibrillator Shocks Increase T-Wave Alternans. Journal of Cardiovascular Electrophysiology, 2007, 18, 512-517.	1.7	19
24	Nocturnal Peak in Atrial Tachyarrhythmia Occurrence as a Function of Arrhythmia Burden. Journal of Cardiovascular Electrophysiology, 2012, 23, 604-611.	1.7	19
25	Changes in autonomic activity and ventricular repolarization. Journal of Electrocardiology, 1999, 32, 185-192.	0.9	17
26	Cardiac repolarization instability during psychological stress in patients with ventricular arrhythmias. Journal of Electrocardiology, 2011, 44, 678-683.	0.9	14
27	Dynamic tracking of ischemia in the surface electrocardiogram. Journal of Electrocardiology, 2007, 40, S179-S186.	0.9	13
28	Adrenergic stimulation promotes T-wave alternans and arrhythmia inducibility in a TNF-Î± genetic mouse model of congestive heart failure. American Journal of Physiology - Heart and Circulatory Physiology, 2010, 298, H440-H450.	3.2	13
29	Spectral characteristics of skin temperature indicate peripheral stress-response. Biofeedback and Self-regulation, 1995, 20, 357-367.	0.2	12
30	Microvolt T-Wave Alternans During Atrial and Ventricular Pacing. PACE - Pacing and Clinical Electrophysiology, 2007, 30, S178-82.	1.2	12
31	Direct mechanical stimulation of brainstem modulates cardiac rhythm and repolarization in humans. Journal of Electrocardiology, 2002, 35, 247-256.	0.9	11
32	Karhunen-LoÃ¨ve representation distinguishes ST-T wave morphology differences in emergency department chest pain patients with nonâ€“ST-elevation myocardial infarction versus nonacute coronary syndrome. Journal of Electrocardiology, 2007, 40, S145-S149.	0.9	10
33	Orthonormal-Basis Partitioning and Time-Frequency Representation of Cardiac Rhythm Dynamics. IEEE Transactions on Biomedical Engineering, 2005, 52, 878-889.	4.2	9
34	QT Adaptation and Intrinsic QT Variability in Congenital Long QT Syndrome. Journal of the American Heart Association, 2015, 4, .	3.7	9
35	Circadian Pattern of Ion Channel Gene Expression in Failing Human Hearts. Circulation: Arrhythmia and Electrophysiology, 2021, 14, e009254.	4.8	9
36	Slow QT Interval Adaptation to Heart Rate Changes in Normal Ambulatory Subjects. Annals of Noninvasive Electrocardiology, 2011, 16, 148-155.	1.1	8

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37	A Pilot Study Examining the Performance of Polynomial-Modeled Ventricular Shock Electrograms for Rhythm Discrimination in Implantable Devices. PACE - Pacing and Clinical Electrophysiology, 2006, 29, 930-939.	1.2	7
38	Accelerated Junctional Rhythm and Nonalternans Repolarization Lability Precede Ventricular Tachycardia in Casq2â^'/â^' Mice. Journal of Cardiovascular Electrophysiology, 2012, 23, 1355-1363.	1.7	7
39	Detecting instabilities of cardiac rhythm. Journal of Electrocardiology, 2003, 36, 219-226.	0.9	6
40	The many faces of repolarization instability: which one is prognostic?. Journal of Electrocardiology, 2009, 42, 511-516.	0.9	6
41	Nighttime instabilities of neurophysiological, cardiovascular, and respiratory activity: integrative modeling and preliminary results. Journal of Electrocardiology, 2015, 48, 1010-1016.	0.9	6
42	Cardiac Autonomic Modulation by Estrogen in Female Mice Undergoing Ambulatory Monitoring and In Vivo Electrophysiologic Testing. Annals of Noninvasive Electrocardiology, 2004, 9, 142-148.	1.1	5
43	High-energy external defibrillation and transcutaneous pacing during MRI: feasibility and safety. Journal of Cardiovascular Magnetic Resonance, 2019, 21, 47.	3.3	4
44	A Segmental Polynomial Model of Ventricular Electrograms as a Simple and Efficient Morphology Discriminator for Implantable Devices. Annals of Noninvasive Electrocardiology, 2006, 11, 271-280.	1.1	3
45	Increased Nonalternans Repolarization Variability Precedes Ventricular Tachycardia Onset in Patients with Implantable Defibrillators. PACE - Pacing and Clinical Electrophysiology, 2016, 39, 140-148.	1.2	3
46	Role of Stress in Cardiac Arrhythmias. Journal of Atrial Fibrillation, 2013, 5, 834.	0.5	3
47	Markers of impaired repolarization. Journal of Electrocardiology, 2007, 40, S54-S57.	0.9	2
48	Spatial Heterogeneity of Electrical Restitution as a Predictor of Ventricular Tachyarrhythmias: A Lumpedâ€Parameter Approach. Journal of the American Heart Association, 2012, 1, e002949.	3.7	2
49	Magnetic resonance imaging of contracting ultrathin cardiac tissue. Biomedical Physics and Engineering Express, 2019, 5, 045003.	1.2	2
50	Noninvasive Testing for Selection of Patients for Electrophysiological Study. Annals of Noninvasive Electrocardiology, 1999, 4, 434-442.	1.1	1
51	Adrenergic stimulation promotes T-wave alternans in a TNF-Î± genetic mouse model of congestive heart failure. Heart Rhythm, 2005, 2, S142-S143.	0.7	1
52	Response to Letter Regarding Article, â€œUpsurge in T-Wave Alternans and Nonalternating Repolarization Instability Precedes Spontaneous Initiation of Ventricular Tachyarrhythmias in Humansâ€• Circulation, 2007, 115, .	1.6	0
53	Response to the Editor:. Journal of Cardiovascular Electrophysiology, 2007, 18, E25-E25.	1.7	0
54	Pattern recognition and time-frequency representation of cardiac rhythm dynamics. Journal of Electrocardiology, 2007, 40, S30-S31.	0.9	0

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55	A Large-Scale, Energetic Model of Cardiovascular Homeostasis Predicts Dynamics of Arterial Pressure in Humans. IEEE Transactions on Biomedical Engineering, 2008, 55, 407-418.	4.2	0
56	Patterns and Features of Families of Traveling Waves in Large-Scale Neuronal Networks. SIAM Journal on Imaging Sciences, 2008, 1, 263.	2.2	0