

Vladimir Shusterman

List of Publications by Year in descending order

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56
papers

2,331
citations

361045

20
h-index

214527

47
g-index

59
all docs

59
docs citations

59
times ranked

3366
citing authors

#	ARTICLE	IF	CITATIONS
1	Mobile Health Technology Evaluation. American Journal of Preventive Medicine, 2013, 45, 228-236.	1.6	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- β . American Journal of Physiology - Heart and Circulatory Physiology, 2005, 289, H1456-H1467.	1.5	122
4	Autonomic nervous system activity and the spontaneous initiation of ventricular tachycardia. Journal of the American College of Cardiology, 1998, 32, 1891-1899.	1.2	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.	1.2	109
6	Calcium-dependent arrhythmias in transgenic mice with heart failure. American Journal of Physiology - Heart and Circulatory Physiology, 2003, 284, H431-H441.	1.5	107
7	Targeted Replacement of Kv1.5 in the Mouse Leads to Loss of the 4-Aminopyridine-Sensitive Component of $I_{K,slow}$ and Resistance to Drug-Induced QT Prolongation. Circulation Research, 2001, 88, 940-946.	2.0	105
8	Effects of Psychologic Stress on Repolarization and Relationship to Autonomic and Hemodynamic Factors. Journal of Cardiovascular Electrophysiology, 2005, 16, 372-377.	0.8	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.	1.5	67
10	A sodium channel pore mutation causing Brugada syndrome. Heart Rhythm, 2007, 4, 46-53.	0.3	64
11	From baseline to epileptiform activity: A path to synchronized rhythmicity in large-scale neural networks. Physical Review E, 2008, 77, 061911.	0.8	52
12	Regional genomic regulation of cardiac sodium-calcium exchanger by oestrogen. Journal of Physiology, 2011, 589, 1061-1080.	1.3	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 Large-Scale Neuronal Networks. SIAM Journal on Applied Dynamical Systems, 2007, 6, 263-292.	0.7	35
15	Dynamics of low-frequency R-R interval oscillations preceding spontaneous ventricular tachycardia. American Heart Journal, 2000, 139, 126-133.	1.2	32
16	Effect of β_2 -adrenergic stimulation on QT interval accommodation. Heart Rhythm, 2011, 8, 263-270.	0.3	32
17	Sympathetic nervous system activity in stress and biofeedback relaxation. IEEE Engineering in Medicine and Biology Magazine, 2005, 24, 52-57.	1.1	28
18	Multidimensional Rhythm Disturbances as a Precursor of Sustained Ventricular Tachyarrhythmias. Circulation Research, 2001, 88, 705-712.	2.0	27

#	ARTICLE	IF	CITATIONS
19	Novel technical solutions for wireless ECG transmission & analysis in the age of the internet cloud. <i>Journal of Electrocardiology</i> , 2013, 46, 540-545.	0.4	26
20	Distinctive RR Dynamics Preceding Two Modes of Onset of Spontaneous Sustained Ventricular Tachycardia. <i>Journal of Cardiovascular Electrophysiology</i> , 1999, 10, 897-904.	0.8	22
21	QT Interval Variability and Adaptation to Heart Rate Changes in Patients with Long QT Syndrome. <i>PACE - Pacing and Clinical Electrophysiology</i> , 2009, 32, 72-81.	0.5	22
22	Tracking repolarization dynamics in real-life data. <i>Journal of Electrocardiology</i> , 2004, 37, 180-186.	0.4	20
23	Implantable Cardioverter-Defibrillator Shocks Increase T-Wave Alternans. <i>Journal of Cardiovascular Electrophysiology</i> , 2007, 18, 512-517.	0.8	19
24	Nocturnal Peak in Atrial Tachyarrhythmia Occurrence as a Function of Arrhythmia Burden. <i>Journal of Cardiovascular Electrophysiology</i> , 2012, 23, 604-611.	0.8	19
25	Changes in autonomic activity and ventricular repolarization. <i>Journal of Electrocardiology</i> , 1999, 32, 185-192.	0.4	17
26	Cardiac repolarization instability during psychological stress in patients with ventricular arrhythmias. <i>Journal of Electrocardiology</i> , 2011, 44, 678-683.	0.4	14
27	Dynamic tracking of ischemia in the surface electrocardiogram. <i>Journal of Electrocardiology</i> , 2007, 40, S179-S186.	0.4	13
28	Adrenergic stimulation promotes T-wave alternans and arrhythmia inducibility in a TNF- α genetic mouse model of congestive heart failure. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2010, 298, H440-H450.	1.5	13
29	Spectral characteristics of skin temperature indicate peripheral stress-response. <i>Biofeedback and Self-regulation</i> , 1995, 20, 357-367.	0.3	12
30	Microvolt T-Wave Alternans During Atrial and Ventricular Pacing. <i>PACE - Pacing and Clinical Electrophysiology</i> , 2007, 30, S178-82.	0.5	12
31	Direct mechanical stimulation of brainstem modulates cardiac rhythm and repolarization in humans. <i>Journal of Electrocardiology</i> , 2002, 35, 247-256.	0.4	11
32	Karhunen-Loève representation distinguishes ST-T wave morphology differences in emergency department chest pain patients with non-ST-elevation myocardial infarction versus nonacute coronary syndrome. <i>Journal of Electrocardiology</i> , 2007, 40, S145-S149.	0.4	10
33	Orthonormal-Basis Partitioning and Time-Frequency Representation of Cardiac Rhythm Dynamics. <i>IEEE Transactions on Biomedical Engineering</i> , 2005, 52, 878-889.	2.5	9
34	QT Adaptation and Intrinsic QT Variability in Congenital Long QT Syndrome. <i>Journal of the American Heart Association</i> , 2015, 4, .	1.6	9
35	Circadian Pattern of Ion Channel Gene Expression in Failing Human Hearts. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2021, 14, e009254.	2.1	9
36	Slow QT Interval Adaptation to Heart Rate Changes in Normal Ambulatory Subjects. <i>Annals of Noninvasive Electrocardiology</i> , 2011, 16, 148-155.	0.5	8

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37	A Pilot Study Examining the Performance of Polynomial-Modeled Ventricular Shock Electrograms for Rhythm Discrimination in Implantable Devices. <i>PACE - Pacing and Clinical Electrophysiology</i> , 2006, 29, 930-939.	0.5	7
38	Accelerated Junctional Rhythm and Nonalternans Repolarization Lability Precede Ventricular Tachycardia in <i>Casq2</i> Mice. <i>Journal of Cardiovascular Electrophysiology</i> , 2012, 23, 1355-1363.	0.8	7
39	Detecting instabilities of cardiac rhythm. <i>Journal of Electrocardiology</i> , 2003, 36, 219-226.	0.4	6
40	The many faces of repolarization instability: which one is prognostic?. <i>Journal of Electrocardiology</i> , 2009, 42, 511-516.	0.4	6
41	Nighttime instabilities of neurophysiological, cardiovascular, and respiratory activity: integrative modeling and preliminary results. <i>Journal of Electrocardiology</i> , 2015, 48, 1010-1016.	0.4	6
42	Cardiac Autonomic Modulation by Estrogen in Female Mice Undergoing Ambulatory Monitoring and In Vivo Electrophysiologic Testing. <i>Annals of Noninvasive Electrocardiology</i> , 2004, 9, 142-148.	0.5	5
43	High-energy external defibrillation and transcutaneous pacing during MRI: feasibility and safety. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2019, 21, 47.	1.6	4
44	A Segmental Polynomial Model of Ventricular Electrograms as a Simple and Efficient Morphology Discriminator for Implantable Devices. <i>Annals of Noninvasive Electrocardiology</i> , 2006, 11, 271-280.	0.5	3
45	Increased Nonalternans Repolarization Variability Precedes Ventricular Tachycardia Onset in Patients with Implantable Defibrillators. <i>PACE - Pacing and Clinical Electrophysiology</i> , 2016, 39, 140-148.	0.5	3
46	Role of Stress in Cardiac Arrhythmias. <i>Journal of Atrial Fibrillation</i> , 2013, 5, 834.	0.5	3
47	Markers of impaired repolarization. <i>Journal of Electrocardiology</i> , 2007, 40, S54-S57.	0.4	2
48	Spatial Heterogeneity of Electrical Restitution as a Predictor of Ventricular Tachyarrhythmias: A Lumped-Parameter Approach. <i>Journal of the American Heart Association</i> , 2012, 1, e002949.	1.6	2
49	Magnetic resonance imaging of contracting ultrathin cardiac tissue. <i>Biomedical Physics and Engineering Express</i> , 2019, 5, 045003.	0.6	2
50	Noninvasive Testing for Selection of Patients for Electrophysiological Study. <i>Annals of Noninvasive Electrocardiology</i> , 1999, 4, 434-442.	0.5	1
51	Adrenergic stimulation promotes T-wave alternans in a <i>TNF-α</i> genetic mouse model of congestive heart failure. <i>Heart Rhythm</i> , 2005, 2, S142-S143.	0.3	1
52	Response to Letter Regarding Article, "Upsurge in T-Wave Alternans and Nonalternating Repolarization Instability Precedes Spontaneous Initiation of Ventricular Tachyarrhythmias in Humans". <i>Circulation</i> , 2007, 115, .	1.6	0
53	Response to the Editor:. <i>Journal of Cardiovascular Electrophysiology</i> , 2007, 18, E25-E25.	0.8	0
54	Pattern recognition and time-frequency representation of cardiac rhythm dynamics. <i>Journal of Electrocardiology</i> , 2007, 40, S30-S31.	0.4	0

#	ARTICLE	IF	CITATIONS
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.	2.5	0
56	Patterns and Features of Families of Traveling Waves in Large-Scale Neuronal Networks. SIAM Journal on Imaging Sciences, 2008, 1, 263.	1.3	0