

# Richard I Walton

## 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.

33  
papers

686  
citations

16  
h-index

26  
g-index

34  
ext. papers

878  
ext. citations

4.8  
avg. IF

4.21  
L-index

#	Paper	IF	Citations
33	Advances in Cardiac Pacing: Arrhythmia Prediction, Prevention and Control Strategies.. <i>Frontiers in Physiology</i> , <b>2021</b> , 12, 783241	4.6	
32	Low-energy, single-pulse surface stimulation defibrillates large mammalian ventricles. <i>Heart Rhythm</i> , <b>2021</b> ,	6.7	2
31	Clinical Potential of Beat-to-Beat Diastolic Interval Control in Preventing Cardiac Arrhythmias. <i>Journal of the American Heart Association</i> , <b>2021</b> , 10, e020750	6	4
30	3D magnetization transfer (MT) for the visualization of cardiac free-running Purkinje fibers: an ex vivo proof of concept. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , <b>2021</b> , 34, 605-618	2.8	4
29	Advanced Three-Dimensional Optical Mapping <b>2021</b> , 199-208		
28	Perovskite Oxides Prepared by Hydrothermal and Solvothermal Synthesis: A Review of Crystallisation, Chemistry, and Compositions. <i>Chemistry - A European Journal</i> , <b>2020</b> , 26, 9041-9069	4.8	23
27	Stretchable Conductive Fabric for Cardiac Electrophysiology Applications.. <i>ACS Applied Bio Materials</i> , <b>2020</b> , 3, 3114-3122	4.1	3
26	Optical Imaging of Ventricular Action Potentials in a Torso Tank: A New Platform for Non-Invasive Electrocardiographic Imaging Validation. <i>Frontiers in Physiology</i> , <b>2019</b> , 10, 146	4.6	4
25	Wide-area low-energy surface stimulation of large mammalian ventricular tissue. <i>Scientific Reports</i> , <b>2019</b> , 9, 15863	4.9	6
24	Depolarization versus repolarization abnormality underlying inferolateral J-wave syndromes: New concepts in sudden cardiac death with apparently normal hearts. <i>Heart Rhythm</i> , <b>2019</b> , 16, 781-790	6.7	29
23	K 3.1 protein is expressed as a transmural gradient across the rat left ventricular free wall. <i>Journal of Cardiovascular Electrophysiology</i> , <b>2019</b> , 30, 383-391	2.7	1
22	Cardiac electrical dyssynchrony is accurately detected by noninvasive electrocardiographic imaging. <i>Heart Rhythm</i> , <b>2018</b> , 15, 1058-1069	6.7	32
21	Role of the Purkinje-Muscle Junction on the Ventricular Repolarization Heterogeneity in the Healthy and Ischemic Ovine Ventricular Myocardium. <i>Frontiers in Physiology</i> , <b>2018</b> , 9, 718	4.6	8
20	Localized Structural Alterations Underlying a Subset of Unexplained Sudden Cardiac Death. <i>Circulation: Arrhythmia and Electrophysiology</i> , <b>2018</b> , 11, e006120	6.4	33
19	Effects of ECG Signal Processing on the Inverse Problem of Electrocardiography. <i>Computing in Cardiology</i> , <b>2018</b> , 45,	1.1	7
18	Compartmentalized Structure of the Moderator Band Provides a Unique Substrate for Macroreentrant Ventricular Tachycardia. <i>Circulation: Arrhythmia and Electrophysiology</i> , <b>2018</b> , 11, e005913	6.4	10
17	Local A-Site Layering in Rare-Earth Orthochromite Perovskites by Solution Synthesis. <i>Chemistry - A European Journal</i> , <b>2016</b> , 22, 18362-18367	4.8	12

16	A technical review of optical mapping of intracellular calcium within myocardial tissue. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2016</b> , 310, H1388-401	5.2	36
15	Transmural electrophysiological heterogeneity, the T-wave and ventricular arrhythmias. <i>Progress in Biophysics and Molecular Biology</i> , <b>2016</b> , 122, 202-214	4.7	17
14	An activation-repolarization time metric to predict localized regions of high susceptibility to reentry. <i>Heart Rhythm</i> , <b>2015</b> , 12, 1644-53	6.7	21
13	Feasibility of a semi-automated method for cardiac conduction velocity analysis of high-resolution activation maps. <i>Computers in Biology and Medicine</i> , <b>2015</b> , 65, 177-83	7	15
12	Quantification of the transmural dynamics of atrial fibrillation by simultaneous endocardial and epicardial optical mapping in an acute sheep model. <i>Circulation: Arrhythmia and Electrophysiology</i> , <b>2015</b> , 8, 456-65	6.4	30
11	Towards Depth-Resolved Optical Imaging of Cardiac Electrical Activity. <i>Advances in Experimental Medicine and Biology</i> , <b>2015</b> , 859, 405-23	3.6	7
10	Influence of the Purkinje-muscle junction on transmural repolarization heterogeneity. <i>Cardiovascular Research</i> , <b>2014</b> , 103, 629-40	9.9	24
9	Structures and magnetism of the rare-earth orthochromite perovskite solid solution $\text{La}_x\text{Sm}_{1-x}\text{CrO}_3$ . <i>Inorganic Chemistry</i> , <b>2013</b> , 52, 12161-9	5.1	41
8	Electrophysiological and structural determinants of electrotonic modulation of repolarization by the activation sequence. <i>Frontiers in Physiology</i> , <b>2013</b> , 4, 281	4.6	19
7	A novel approach for deriving global activation maps from non-averaged cardiac optical signals. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2013</b> , 2013, 1772-5	0.9	2
6	Extracting surface activation time from the optically recorded action potential in three-dimensional myocardium. <i>Biophysical Journal</i> , <b>2012</b> , 102, 30-8	2.9	20
5	Direct Hydrothermal Synthesis and Physical Properties of Rare-Earth and Yttrium Orthochromite Perovskites. <i>Chemistry of Materials</i> , <b>2011</b> , 23, 48-56	9.6	130
4	Slowed propagation across the compacta-trabeculata interface: a consequence of fiber and sheet anisotropy. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2011</b> , 2011, 1688-92	0.9	1
3	Construction and validation of anisotropic and orthotropic ventricular geometries for quantitative predictive cardiac electrophysiology. <i>Interface Focus</i> , <b>2011</b> , 1, 101-16	3.9	26
2	Dual excitation wavelength epifluorescence imaging of transmural electrophysiological properties in intact hearts. <i>Heart Rhythm</i> , <b>2010</b> , 7, 1843-9	6.7	31
1	A study of the manganites $\text{La}_{0.5}\text{M}_{0.5}\text{MnO}_3$ (M = Ca, Sr, Ba) prepared by hydrothermal synthesis. <i>Journal of Materials Chemistry</i> , <b>2005</b> , 15, 1542		88