

# Gunnar Seemann

## List of Publications by Year in descending order

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123  
papers

4,862  
citations

126907

33  
h-index

106344

65  
g-index

129  
all docs

129  
docs citations

129  
times ranked

4442  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Macrophages Facilitate Electrical Conduction in the Heart. <i>Cell</i> , 2017, 169, 510-522.e20.  | 28.9 | 703       |
| 2  | Models of cardiac tissue electrophysiology: Progress, challenges and open questions. <i>Progress in Biophysics and Molecular Biology</i> , 2011, 104, 22-48.  | 2.9  | 483       |
| 3  | Verification of cardiac tissue electrophysiology simulators using an <i>N-version benchmark</i> . <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2011, 369, 4331-4351.                            | 3.4  | 253       |
| 4  | Heterogeneous three-dimensional anatomical and electrophysiological model of human atria. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2006, 364, 1465-1481.                                    | 3.4  | 229       |
| 5  | Cardiac cell modelling: Observations from the heart of the cardiac physiome project. <i>Progress in Biophysics and Molecular Biology</i> , 2011, 104, 2-21.   | 2.9  | 139       |
| 6  | Benchmarking electrophysiological models of human atrial myocytes. <i>Frontiers in Physiology</i> , 2012, 3, 487.   | 2.8  | 131       |
| 7  | Computational modeling of the human atrial anatomy and electrophysiology. <i>Medical and Biological Engineering and Computing</i> , 2012, 50, 773-799.  | 2.8  | 128       |
| 8  | Ranking the Influence of Tissue Conductivities on Forward-Calculated ECGs. <i>IEEE Transactions on Biomedical Engineering</i> , 2010, 57, 1568-1576.  | 4.2  | 121       |
| 9  | Deficient Zebrafish <i>Ether-a2-Go-Go</i> Related Gene Channel Gating Causes Short-QT Syndrome in Zebrafish <i>Reggae</i> Mutants. <i>Circulation</i> , 2008, 117, 866-875.   | 1.6  | 115       |
| 10 | Slow Conduction in the Border Zones of Patchy Fibrosis Stabilizes the Drivers for Atrial Fibrillation: Insights from Multi-Scale Human Atrial Modeling. <i>Frontiers in Physiology</i> , 2016, 7, 474.  | 2.8  | 109       |
| 11 | The openCARP simulation environment for cardiac electrophysiology. <i>Computer Methods and Programs in Biomedicine</i> , 2021, 208, 106223.   | 4.7  | 84        |
| 12 | Personalization of Atrial Anatomy and Electrophysiology as a Basis for Clinical Modeling of Radio-Frequency Ablation of Atrial Fibrillation. <i>IEEE Transactions on Medical Imaging</i> , 2013, 32, 73-84.                                       | 8.9  | 83        |
| 13 | Simulation of the contraction of the ventricles in a human heart model including atria and pericardium. <i>Biomechanics and Modeling in Mechanobiology</i> , 2014, 13, 627-641.   | 2.8  | 81        |
| 14 | Verification of cardiac mechanics software: benchmark problems and solutions for testing active and passive material behaviour. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2015, 471, 20150641. | 2.1  | 80        |
| 15 | A Model of Electrical Conduction in Cardiac Tissue Including Fibroblasts. <i>Annals of Biomedical Engineering</i> , 2009, 37, 874-889.  | 2.5  | 77        |
| 16 | Silica nanoparticles are less toxic to human lung cells when deposited at the air-liquid interface compared to conventional submerged exposure. <i>Beilstein Journal of Nanotechnology</i> , 2014, 5, 1590-1602.                                  | 2.8  | 72        |
| 17 | Sodium permeable and $\alpha$ -hypersensitive TREK1 channels cause ventricular tachycardia. <i>EMBO Molecular Medicine</i> , 2017, 9, 403-414.  | 6.9  | 65        |
| 18 | Influence of $K_s$ Heterogeneities on the Genesis of the T-wave: A Computational Evaluation. <i>IEEE Transactions on Biomedical Engineering</i> , 2012, 59, 311-322.  | 4.2  | 63        |

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|----|---|-----|-----------|
| 19 | In Silico Screening of the Key Cellular Remodeling Targets in Chronic Atrial Fibrillation. PLoS Computational Biology, 2014, 10, e1003620.  | 3.2 | 59        |
| 20 | Modeling Atrial Fiber Orientation in Patient-Specific Geometries: A Semi-automatic Rule-Based Approach. Lecture Notes in Computer Science, 2011, , 223-232.   | 1.3 | 59        |
| 21 | The Influence of Age and Skull Conductivity on Surface and Subdermal Bipolar EEG Leads. Computational Intelligence and Neuroscience, 2010, 2010, 1-7.   | 1.7 | 56        |
| 22 | Conduction Velocity Restitution of the Human Atrium—An Efficient Measurement Protocol for Clinical Electrophysiological Studies. IEEE Transactions on Biomedical Engineering, 2011, 58, 2648-2655.  | 4.2 | 55        |
| 23 | Preventive Ablation Strategies in a Biophysical Model of Atrial Fibrillation Based on Realistic Anatomical Data. IEEE Transactions on Biomedical Engineering, 2008, 55, 399-406.  | 4.2 | 52        |
| 24 | In-silico modeling of atrial repolarization in normal and atrial fibrillation remodeled state. Medical and Biological Engineering and Computing, 2013, 51, 1105-1119.   | 2.8 | 51        |
| 25 | Mesh structure-independent modeling of patient-specific atrial fiber orientation. Current Directions in Biomedical Engineering, 2015, 1, 409-412.   | 0.4 | 50        |
| 26 | Electro-Mechanical Whole-Heart Digital Twins: A Fully Coupled Multi-Physics Approach. Mathematics, 2021, 9, 1247.   | 2.2 | 49        |
| 27 | Patient-specific modeling of atrial fibrosis increases the accuracy of sinus rhythm simulations and may explain maintenance of atrial fibrillation. Journal of Electrocardiology, 2014, 47, 324-328.  | 0.9 | 48        |
| 28 | In-silico assessment of the dynamic effects of amiodarone and dronedarone on human atrial patho-electrophysiology. Europace, 2014, 16, iv30-iv38.   | 1.7 | 45        |
| 29 | Arrhythmic potency of human ether-Å-go-go-related gene mutations L532P and N588K in a computational model of human atrial myocytes. Europace, 2014, 16, 435-443.  | 1.7 | 44        |
| 30 | Wave-Direction and Conduction-Velocity Analysis From Intracardiac Electrograms—A Single-Shot Technique. IEEE Transactions on Biomedical Engineering, 2010, 57, 2394-2401.   | 4.2 | 43        |
| 31 | Selective noradrenaline reuptake inhibitor atomoxetine directly blocks hERG currents. British Journal of Pharmacology, 2009, 156, 226-236.  | 5.4 | 39        |
| 32 | Towards personalized clinical in-silico modeling of atrial anatomy and electrophysiology. Medical and Biological Engineering and Computing, 2013, 51, 1251-1260.  | 2.8 | 39        |
| 33 | Modelling of short QT syndrome in a heterogeneous model of the human ventricular wall. Europace, 2005, 7, S105-S117.  | 1.7 | 38        |
| 34 | Quantitative Reconstruction of Cardiac Electromechanics in Human Myocardium:. Journal of Cardiovascular Electrophysiology, 2003, 14, S219-S228.   | 1.7 | 35        |
| 35 | Influence of left atrial size on P-wave morphology: differential effects of dilation and hypertrophy. Europace, 2018, 20, iii36-iii44.  | 1.7 | 32        |
| 36 | Quantitative Analysis of Cardiac Tissue Including Fibroblasts Using Three-Dimensional Confocal Microscopy and Image Reconstruction: Towards a Basis for Electrophysiological Modeling. IEEE Transactions on Medical Imaging, 2013, 32, 862-872. | 8.9 | 31        |

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|----|--|-----|-----------|
| 37 | Modeling of IK1 mutations in human left ventricular myocytes and tissue. American Journal of Physiology - Heart and Circulatory Physiology, 2007, 292, H549-H559.  | 3.2 | 30        |
| 38 | A Computer Simulation Study of Anatomy Induced Drift of Spiral Waves in the Human Atrium. BioMed Research International, 2015, 2015, 1-15.   | 1.9 | 30        |
| 39 | Alterations of atrial electrophysiology related to hemodialysis session: insights from a multiscale computer model. Journal of Electrocardiology, 2011, 44, 176-183.   | 0.9 | 29        |
| 40 | OUP accepted manuscript. Europace, 2016, 18, iv35-iv43.  | 1.7 | 29        |
| 41 | Modeling of cardiac ischemia in human myocytes and tissue including spatiotemporal electrophysiological variations / Modellierung kardialer Ischämie in menschlichen Myozyten und Gewebe. Biomedizinische Technik, 2009, 54, 107-125.                                      | 0.8 | 28        |
| 42 | In Silico Investigation of Electrically Silent Acute Cardiac Ischemia in the Human Ventricles. IEEE Transactions on Biomedical Engineering, 2011, 58, 2961-2964.   | 4.2 | 28        |
| 43 | Impact of amiodarone and cisapride on simulated human ventricular electrophysiology and electrocardiograms. Europace, 2012, 14, v90-v96.   | 1.7 | 28        |
| 44 | Basket-Type Catheters: Diagnostic Pitfalls Caused by Deformation and Limited Coverage. BioMed Research International, 2016, 2016, 1-13.  | 1.9 | 28        |
| 45 | Electrophysiological characterization of a large set of novel variants in the SCN5A-gene: identification of novel LQTS3 and BrS mutations. Pflügers Archiv European Journal of Physiology, 2016, 468, 1375-1387.   | 2.8 | 28        |
| 46 | MODELING OF PROTEIN INTERACTIONS INVOLVED IN CARDIAC TENSION DEVELOPMENT. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2003, 13, 3561-3578.   | 1.7 | 27        |
| 47 | Patient-Specific Identification of Atrial Flutter Vulnerability—A Computational Approach to Reveal Latent Reentry Pathways. Frontiers in Physiology, 2018, 9, 1910.  | 2.8 | 27        |
| 48 | Predicting Tissue Conductivity Influences on Body Surface Potentials—An Efficient Approach Based on Principal Component Analysis. IEEE Transactions on Biomedical Engineering, 2011, 58, 265-273.  | 4.2 | 26        |
| 49 | Modeling effects of voltage dependent properties of the cardiac muscarinic receptor on human sinus node function. PLoS Computational Biology, 2018, 14, e1006438.  | 3.2 | 26        |
| 50 | Genetic Ablation of TASK-1 (Tandem of P Domains in a Weak Inward Rectifying K <sup>+</sup> Channel) Overlooked by 50% of Researchers Suppresses Atrial Fibrillation and Prevents Electrical Remodeling. Circulation: Arrhythmia and Electrophysiology, 2019, 12, e007465.  | 4.8 | 25        |
| 51 | Postpartum hormones oxytocin and prolactin cause pro-arrhythmic prolongation of cardiac repolarization in long QT syndrome type 2. Europace, 2019, 21, 1126-1138.  | 1.7 | 25        |
| 52 | Confocal Microscopy-Based Estimation of Parameters for Computational Modeling of Electrical Conduction in the Normal and Infarcted Heart. Frontiers in Physiology, 2018, 9, 239.   | 2.8 | 24        |
| 53 | Impact of Physiological Ventricular Deformation on the Morphology of the T-Wave: A Hybrid, Static-Dynamic Approach. IEEE Transactions on Biomedical Engineering, 2011, 58, 2109-2119.  | 4.2 | 21        |
| 54 | Pharmacologic TWIK-Related Acid-Sensitive K <sup>+</sup> Channel (TASK-1) Potassium Channel Inhibitor A293 Facilitates Acute Cardioversion of Paroxysmal Atrial Fibrillation in a Porcine Large Animal Model. Journal of the American Heart Association, 2020, 9, e015751. | 3.7 | 21        |

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|----|---|-----|-----------|
| 55 | An environment for sustainable research software in Germany and beyond: current state, open challenges, and call for action. <i>F1000Research</i> , 2020, 9, 295.   | 1.6 | 21        |
| 56 | Simulation of clinical electrophysiology in 3D human atria: a high-performance computing and high-performance visualization application. <i>Concurrency Computation Practice and Experience</i> , 2008, 20, 1317-1328.      | 2.2 | 20        |
| 57 | Influence of ischemic core muscle fibers on surface depolarization potentials in superfused cardiac tissue preparations: a simulation study. <i>Medical and Biological Engineering and Computing</i> , 2012, 50, 461-472.   | 2.8 | 20        |
| 58 | Left and Right Atrial Contribution to the P-wave in Realistic Computational Models. <i>Lecture Notes in Computer Science</i> , 2015, , 439-447.   | 1.3 | 19        |
| 59 | Quantitative Reconstruction of Cardiac Electromechanics in Human Myocardium. <i>Journal of Cardiovascular Electrophysiology</i> , 2003, 14, S210-S218.  | 1.7 | 18        |
| 60 | The influence of fibre orientation, extracted from different segments of the human left ventricle, on the activation and repolarization sequence: a simulation study. <i>Europace</i> , 2007, 9, vi96-vi104.                | 1.7 | 18        |
| 61 | Novel insights into the electrophysiology of murine cardiac macrophages: relevance of voltage-gated potassium channels. <i>Cardiovascular Research</i> , 2022, 118, 798-813.  | 3.8 | 18        |
| 62 | Rotor Termination Is Critically Dependent on Kinetic Properties of $I_{Kur}$ Inhibitors in an In Silico Model of Chronic Atrial Fibrillation. <i>PLoS ONE</i> , 2013, 8, e83179.  | 2.5 | 17        |
| 63 | Characterization of Radiofrequency Ablation Lesion Development Based on Simulated and Measured Intracardiac Electrograms. <i>IEEE Transactions on Biomedical Engineering</i> , 2014, 61, 2467-2478.                         | 4.2 | 17        |
| 64 | Parameter Estimation of Ion Current Formulations Requires Hybrid Optimization Approach to Be Both Accurate and Reliable. <i>Frontiers in Bioengineering and Biotechnology</i> , 2015, 3, 209.                               | 4.1 | 17        |
| 65 | Effects of early afterdepolarizations on excitation patterns in an accurate model of the human ventricles. <i>PLoS ONE</i> , 2017, 12, e0188867.  | 2.5 | 17        |
| 66 | Strong scaling and speedup to 16,384 processors in cardiac electro &#x2014; Mechanical simulations. , 2009, 2009, 2795-8.   |     | 16        |
| 67 | ECG-Based Detection of Early Myocardial Ischemia in a Computational Model: Impact of Additional Electrodes, Optimal Placement, and a New Feature for ST Deviation. <i>BioMed Research International</i> , 2015, 2015, 1-11. | 1.9 | 16        |
| 68 | A robust computational framework for estimating 3D Bi-Atrial chamber wall thickness. <i>Computers in Biology and Medicine</i> , 2019, 114, 103444.  | 7.0 | 16        |
| 69 | An environment for sustainable research software in Germany and beyond: current state, open challenges, and call for action. <i>F1000Research</i> , 2020, 9, 295.   | 1.6 | 16        |
| 70 | Computational Modelling of Low Voltage Resonant Drift of Scroll Waves in the Realistic Human Atria. <i>Lecture Notes in Computer Science</i> , 2015, , 421-429.   | 1.3 | 14        |
| 71 | A Semi-automatic Approach for Segmentation of Three-Dimensional Microscopic Image Stacks of Cardiac Tissue. <i>Lecture Notes in Computer Science</i> , 2013, , 300-307.   | 1.3 | 14        |
| 72 | Comparing measured and simulated wave directions in the left atrium â€“ a workflow for model personalization and validation. <i>Biomedizinische Technik</i> , 2012, 57, 79-87.  | 0.8 | 13        |

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|----|--|-----|-----------|
| 73 | Spatial Patterns of Excitation at Tissue and Whole Organ Level Due to Early Afterdepolarizations. <i>Frontiers in Physiology</i> , 2017, 8, 404.   | 2.8 | 13        |
| 74 | Cardiac ischemiaâ€”insights from computational models. <i>Herzschrittmachertherapie Und Elektrophysiologie</i> , 2018, 29, 48-56.  | 0.8 | 13        |
| 75 | Anticholinergic antiparkinson drug orphenadrine inhibits HERG channels: block attenuation by mutations of the pore residues Y652 or F656. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 2007, 376, 275-284.          | 3.0 | 12        |
| 76 | Myocyte Remodeling Due to Fibro-Fatty Infiltrations Influences Arrhythmogenicity. <i>Frontiers in Physiology</i> , 2018, 9, 1381.  | 2.8 | 12        |
| 77 | A framework for personalization of computational models of the human atria. , 2011, 2011, 4324-8.  |     | 11        |
| 78 | Scroll Waves in 3D Virtual Human Atria: A Computational Study. , 2007, , 129-138.  |     | 11        |
| 79 | A Fully-Coupled Electro-Mechanical Whole-Heart Computational Model: Influence of Cardiac Contraction on the ECG. <i>Frontiers in Physiology</i> , 2021, 12, 778872.  | 2.8 | 10        |
| 80 | Anatomical and spiral wave reentry in a simplified model for atrial electrophysiology. <i>Journal of Theoretical Biology</i> , 2017, 419, 100-107.   | 1.7 | 8         |
| 81 | openCARP: An Open Sustainable Framework for In-Silico Cardiac Electrophysiology Research. , 0, , .   |     | 8         |
| 82 | Computer based modeling of the congenital long-QT 2 syndrome in the Visible Man torso: From genes to ECG. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2007, 2007, 1410-3. | 0.5 | 7         |
| 83 | Large scale cardiac modeling on the Blue Gene supercomputer. , 2008, 2008, 577-80.   |     | 6         |
| 84 | Myofiber orientation and electrical activation in human and sheep atrial models. , 2012, 2012, 6365-8.   |     | 6         |
| 85 | Estimating refractory periods during atrial fibrillation based on electrogram cycle lengths in a heterogeneous simulation setup. <i>Current Directions in Biomedical Engineering</i> , 2017, 3, 317-320.                       | 0.4 | 6         |
| 86 | Electro-mechanical (dys-)function in long QT syndrome type 1. <i>International Journal of Cardiology</i> , 2019, 274, 144-151.   | 1.7 | 6         |
| 87 | Extracting Clinically Relevant Circular Mapping and Coronary Sinus Catheter Potentials from Atrial Simulations. <i>Lecture Notes in Computer Science</i> , 2009, , 30-38.  | 1.3 | 6         |
| 88 | Comparing Simulated Electrocardiograms of Different Stages of Acute Cardiac Ischemia. <i>Lecture Notes in Computer Science</i> , 2011, , 11-19.  | 1.3 | 6         |
| 89 | Clinical applications of image fusion for electrophysiology procedures. , 2012, , .  |     | 5         |
| 90 | Detecting phase singularities and rotor center trajectories based on the Hilbert transform of intraatrial electrograms in an atrial voxel model. <i>Current Directions in Biomedical Engineering</i> , 2015, 1, 38-41.         | 0.4 | 5         |

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|-----|---|-----|-----------|
| 91  | Methods for analyzing signal characteristics of stable and unstable rotors in a realistic heart model. , 2015, , .  |     | 5         |
| 92  | Interregional electro-mechanical heterogeneity in the rabbit myocardium. Progress in Biophysics and Molecular Biology, 2017, 130, 344-355.  | 2.9 | 5         |
| 93  | Adaption of Mathematical Ion Channel Models to measured data using the Particle Swarm Optimization. IFMBE Proceedings, 2009, , 2507-2510.   | 0.3 | 5         |
| 94  | Investigating Arrhythmogenic Effects of the hERG Mutation N588K in Virtual Human Atria. Lecture Notes in Computer Science, 2009, , 144-153.   | 1.3 | 5         |
| 95  | MATHEMATICAL MODELING OF CARDIAC ELECTRO-MECHANICS: FROM PROTEIN TO ORGAN. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2003, 13, 3747-3755.                               | 1.7 | 4         |
| 96  | Classification of cardiac excitation patterns during atrial fibrillation. Current Directions in Biomedical Engineering, 2016, 2, 161-166.   | 0.4 | 4         |
| 97  | Cycle length statistics during human atrial fibrillation reveal refractory properties of the underlying substrate: a combined <i>in silico</i> and clinical test of concept study. Europace, 2021, 23, i133-i142. | 1.7 | 4         |
| 98  | The missing link between cardiovascular rhythm control and myocardial cell modeling. Biomedizinische Technik, 2006, 51, 205-209.  | 0.8 | 3         |
| 99  | A Framework for Modeling of Mechano-Electrical Feedback Mechanisms of Cardiac Myocytes and Tissues. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 160-3.   | 0.5 | 3         |
| 100 | Electrophysiological Modeling for Cardiology: Methods and Potential Applications. IT - Information Technology, 2010, 52, 242-249.   | 0.9 | 3         |
| 101 | Comparison of simulated and clinical intracardiac electrograms. , 2013, 2013, 6858-61.  |     | 3         |
| 102 | Understanding the cellular mode of action of vernakalant using a computational model: answers and new questions. Current Directions in Biomedical Engineering, 2015, 1, 418-422.                                  | 0.4 | 3         |
| 103 | Effects of Fibroblasts coupling on the Electrophysiology of Cardiomyocytes from Different Regions of the Human Atrium: a Simulation Study. , 0, , .   |     | 3         |
| 104 | CVAR-Seg: An Automated Signal Segmentation Pipeline for Conduction Velocity and Amplitude Restitution. Frontiers in Physiology, 2021, 12, 673047.   | 2.8 | 3         |
| 105 | Influence of electrophysiological heterogeneity on electrical stimulation in healthy and failing human hearts. Medical and Biological Engineering and Computing, 2005, 43, 783-792.                               | 2.8 | 2         |
| 106 | Orthogonal recursive bisection data decomposition for high performance computing in cardiac model simulations: Dependence on anatomical geometry. , 2009, 2009, 2799-802.   |     | 2         |
| 107 | Simulation of intracardiac electrograms around acute ablation lesions. Current Directions in Biomedical Engineering, 2016, 2, 607-610.  | 0.4 | 2         |
| 108 | Estimating cardiac active tension from wall motion – An inverse problem of cardiac biomechanics. International Journal for Numerical Methods in Biomedical Engineering, 2021, 37, e3448.                          | 2.1 | 2         |



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|-----|---|-----|-----------|
| 109 | Molecular Mechanism of Autosomal Recessive Long QT-Syndrome 1 without Deafness. International Journal of Molecular Sciences, 2021, 22, 1112.  | 4.1 | 2         |
| 110 | A computational model of rabbit geometry and ECG: Optimizing ventricular activation sequence and APD distribution. PLoS ONE, 2022, 17, e0270559.  | 2.5 | 2         |
| 111 | Model assisted biosignal analysis of atrial electrograms. TM Technisches Messen, 2016, 83, 102-111.   | 0.7 | 1         |
| 112 | Effect of left atrial hypertrophy on P-wave morphology in a computational model. Current Directions in Biomedical Engineering, 2016, 2, 603-606.  | 0.4 | 1         |
| 113 | Hyperthermia dependence of cardiac conduction velocity in rat myocardium: Optical mapping and cardiac near field measurements. , 2017, 2017, 3688-3691.                                   |     | 1         |
| 114 | T-Wave Changes Due to Cardiac Deformation Are Dependent on the Temporal Relationship Between Repolarization and Diastolic Phase. , 2018, , .  |     | 1         |
| 115 | Comment: postpartum hormones oxytocin and prolactin cause pro-arrhythmic prolongation of cardiac repolarization in long QT syndrome type 2 Authors' reply. Europace, 2019, 21, 1141-1142. | 1.7 | 1         |
| 116 | Computational Mechanistic Investigation of Chronotropic Effects on Murine Sinus Node Cells. , 0, , .  |     | 1         |
| 117 | Left Atrial Hypertrophy Increases P-Wave Terminal Force Through Amplitude but not Duration. , 0, , .  |     | 1         |
| 118 | Insights into Electrophysiological Studies with Papillary Muscle by Computational Models. Lecture Notes in Computer Science, 2005, , 216-225.   | 1.3 | 0         |
| 119 | Accelerating mono-domain cardiac electrophysiology simulations using OpenCL. Current Directions in Biomedical Engineering, 2015, 1, 413-417.  | 0.4 | 0         |
| 120 | Magnetocardiography did not uncover electrically silent ischemia in an in-silico study case. , 2015, , .  |     | 0         |
| 121 | Abstract 13021: Regional Electromechanical Heterogeneity in the Rabbit Wild-Type and Long-QT-Syndrome Heart. Circulation, 2015, 132, .  | 1.6 | 0         |
| 122 | Regularity of Node Distribution Impacts Conduction Velocities in Finite Element Simulations of the Heart. , 0, , .  |     | 0         |
| 123 | Mathematical Modeling of Nonselective Channels: Estimating Ion Current Fractions and Their Impact on Pathological Simulations. , 0, , .   |     | 0         |