

# RÃ©mi Peyronnet

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5128351/publications.pdf>

Version: 2024-02-01

43  
papers

1,925  
citations

331259

21  
h-index

264894

42  
g-index

45  
all docs

45  
docs citations

45  
times ranked

2562  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Consecutive-Day Ventricular and Atrial Cardiomyocyte Isolations from the Same Heart: Shifting the Costâ€‘Benefit Balance of Cardiac Primary Cell Research. <i>Cells</i> , 2022, 11, 233.   | 1.8 | 8         |
| 2  | Single cardiomyocytes from papillary muscles show lower preload-dependent activation of force compared to cardiomyocytes from the left ventricular free wall. <i>Journal of Molecular and Cellular Cardiology</i> , 2022, 166, 127-136.                      | 0.9 | 3         |
| 3  | Benchmarking of Cph1 Mutants and <i>Dr</i> BphP for Lightâ€‘Responsive Phytochromeâ€‘Based Hydrogels with Reversibly Adjustable Mechanical Properties. <i>Advanced Biology</i> , 2022, 6, e2000337.  | 1.4 | 5         |
| 4  | Beat-by-Beat Cardiomyocyte T-Tubule Deformation Drives Tubular Content Exchange. <i>Circulation Research</i> , 2021, 128, 203-215.   | 2.0 | 26        |
| 5  | Repurposing mesalazine against cardiac fibrosis in vitro. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 2021, 394, 533-543.  | 1.4 | 9         |
| 6  | Piezo1 Channels Contribute to the Regulation of Human Atrial Fibroblast Mechanical Properties and Matrix Stiffness Sensing. <i>Cells</i> , 2021, 10, 663.  | 1.8 | 43        |
| 7  | Small Conductance Ca <sup>2+</sup> -Activated K <sup>+</sup> (SK) Channel mRNA Expression in Human Atrial and Ventricular Tissue: Comparison Between Donor, Atrial Fibrillation and Heart Failure Tissue. <i>Frontiers in Physiology</i> , 2021, 12, 650964. | 1.3 | 27        |
| 8  | Editorial: Mechano-Calcium, Mechano-Electric, and Mechano-Metabolic Feedback Loops: Contribution to the Myocardial Contraction in Health and Diseases. <i>Frontiers in Physiology</i> , 2021, 12, 676826.  | 1.3 | 1         |
| 9  | Heterogeneity and Remodeling of Ion Currents in Cultured Right Atrial Fibroblasts From Patients With Sinus Rhythm or Atrial Fibrillation. <i>Frontiers in Physiology</i> , 2021, 12, 673891.   | 1.3 | 4         |
| 10 | Piezo1 and BKCa channels in human atrial fibroblasts: Interplay and remodelling in atrial fibrillation. <i>Journal of Molecular and Cellular Cardiology</i> , 2021, 158, 49-62.  | 0.9 | 26        |
| 11 | Passive myocardial mechanical properties: meaning, measurement, models. <i>Biophysical Reviews</i> , 2021, 13, 587-610.  | 1.5 | 30        |
| 12 | Hereditary Xerocytosis: Differential Behavior of PIEZO1 Mutations in the N-Terminal Extracellular Domain Between Red Blood Cells and HEK Cells. <i>Frontiers in Physiology</i> , 2021, 12, 736585.   | 1.3 | 6         |
| 13 | Modeling atrial fibrosis in vitro â€‘ Generation and characterization of a novel human atrial fibroblast cell line. <i>FEBS Open Bio</i> , 2020, 10, 1210-1218.  | 1.0 | 16        |
| 14 | The Lectin LecA Sensitizes the Human Stretch-Activated Channel TREK-1 but Not Piezo1 and Binds Selectively to Cardiac Non-myocytes. <i>Frontiers in Physiology</i> , 2020, 11, 457.  | 1.3 | 8         |
| 15 | Electromechanical Assessment of Optogenetically Modulated Cardiomyocyte Activity. <i>Journal of Visualized Experiments</i> , 2020, , .   | 0.2 | 4         |
| 16 | Expression and function of mechanosensitive ion channels in human valve interstitial cells. <i>PLoS ONE</i> , 2020, 15, e0240532.  | 1.1 | 13        |
| 17 | The Institute for Experimental Cardiovascular Medicine in Freiburg. <i>Biophysical Reviews</i> , 2019, 11, 675-677.  | 1.5 | 2         |
| 18 | The NSL complex maintains nuclear architecture stability via lamin A/C acetylation. <i>Nature Cell Biology</i> , 2019, 21, 1248-1260.  | 4.6 | 61        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | Atria-selective antiarrhythmic drugs in need of alliance partners. <i>Pharmacological Research</i> , 2019, 145, 104262.   | 3.1 | 29        |
| 20 | A potential key mechanism in ascending aortic aneurysm development: Detection of a linear relationship between MMP-14/TIMP-2 ratio and active MMP-2. <i>PLoS ONE</i> , 2019, 14, e0212859.  | 1.1 | 10        |
| 21 | Transgenic short-QT syndrome 1 rabbits mimic the human disease phenotype with QT/action potential duration shortening in the atria and ventricles and increased ventricular tachycardia/ventricular fibrillation inducibility. <i>European Heart Journal</i> , 2019, 40, 842-853. | 1.0 | 34        |
| 22 | Human Atrial Fibroblast Adaptation to Heterogeneities in Substrate Stiffness. <i>Frontiers in Physiology</i> , 2019, 10, 1526.  | 1.3 | 14        |
| 23 | Cardiac fibroblasts. <i>Herzschrittmachertherapie Und Elektrophysiologie</i> , 2018, 29, 62-69.   | 0.3 | 27        |
| 24 | Voltage-gated and stretch-activated potassium channels in the human heart. <i>Herzschrittmachertherapie Und Elektrophysiologie</i> , 2018, 29, 36-42.   | 0.3 | 8         |
| 25 | Sodium permeable and "hypersensitive" TREK1 channels cause ventricular tachycardia. <i>EMBO Molecular Medicine</i> , 2017, 9, 403-414.  | 3.3 | 65        |
| 26 | Load-dependent effects of apelin on murine cardiomyocytes. <i>Progress in Biophysics and Molecular Biology</i> , 2017, 130, 333-343.  | 1.4 | 36        |
| 27 | Cardiac mechanics and electrics: It takes two to tango. <i>Progress in Biophysics and Molecular Biology</i> , 2017, 130, 121-123.   | 1.4 | 2         |
| 28 | Caveolae in Rabbit Ventricular Myocytes: Distribution and Dynamic Diminution after Cell Isolation. <i>Biophysical Journal</i> , 2017, 113, 1047-1059.   | 0.2 | 49        |
| 29 | Piezo1-dependent regulation of urinary osmolarity. <i>Pflugers Archiv European Journal of Physiology</i> , 2016, 468, 1197-1206.  | 1.3 | 74        |
| 30 | Cardiac Mechano-Gated Ion Channels and Arrhythmias. <i>Circulation Research</i> , 2016, 118, 311-329.   | 2.0 | 173       |
| 31 | Piezo1 in Smooth Muscle Cells Is Involved in Hypertension-Dependent Arterial Remodeling. <i>Cell Reports</i> , 2015, 13, 1161-1171.   | 2.9 | 250       |
| 32 | Mechanosensitive channels: feeling tension in a world under pressure. <i>Frontiers in Plant Science</i> , 2014, 5, 558.   | 1.7 | 89        |
| 33 | Interrogation of living myocardium in multiple static deformation states with diffusion tensor and diffusion spectrum imaging. <i>Progress in Biophysics and Molecular Biology</i> , 2014, 115, 213-225.  | 1.4 | 19        |
| 34 | Molecular candidates for cardiac stretch-activated ion channels. <i>Global Cardiology Science &amp; Practice</i> , 2014, 2014, 19.  | 0.3 | 58        |
| 35 | Piezo1-dependent stretch-activated channels are inhibited by Polycystin2 in renal tubular epithelial cells. <i>EMBO Reports</i> , 2013, 14, 1143-1148.  | 2.0 | 127       |
| 36 | Mechanoprotection by Polycystins against Apoptosis Is Mediated through the Opening of Stretch-Activated K2P Channels. <i>Cell Reports</i> , 2012, 1, 241-250.   | 2.9 | 54        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 37 | A Human TREK-1/HEK Cell Line: A Highly Efficient Screening Tool for Drug Development in Neurological Diseases. PLoS ONE, 2011, 6, e25602.                               | 1.1 | 45        |
| 38 | Multiple modalities converge on a common gate to control K <sup>2P</sup> channel function. EMBO Journal, 2011, 30, 3594-3606.   | 3.5 | 128       |
| 39 | R type anion channel. Plant Signaling and Behavior, 2010, 5, 1347-1352.   | 1.2 | 10        |
| 40 | R-type anion channel activation is an essential step for ROS-dependent innate immune response in Arabidopsis suspension cells. Functional Plant Biology, 2009, 36, 832. | 1.1 | 22        |
| 41 | Two MscS Homologs Provide Mechanosensitive Channel Activities in the Arabidopsis Root. Current Biology, 2008, 18, 730-734.  | 1.8 | 265       |
| 42 | AtMSL9 and AtMSL10: Sensors of plasma membrane tension in Arabidopsis roots. Plant Signaling and Behavior, 2008, 3, 726-729.  | 1.2 | 35        |
| 43 | On the specificity of pig adrenal ferredoxin (adrenodoxin) and spinach ferredoxin in electron-transfer reactions. FEBS Journal, 1988, 174, 629-635.                     | 0.2 | 6         |