

Julie Bossuyt

List of Publications by Year in descending order

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75
papers

3,286
citations

136740

32
h-index

149479

56
g-index

81
all docs

81
docs citations

81
times ranked

3604
citing authors

#	ARTICLE	IF	CITATIONS
1	Local InsP3-dependent perinuclear Ca ²⁺ signaling in cardiac myocyte excitation-transcription coupling. <i>Journal of Clinical Investigation</i> , 2006, 116, 675-682.	3.9	427
2	Phospholemman-Phosphorylation Mediates the β^2 -Adrenergic Effects on Na/K Pump Function in Cardiac Myocytes. <i>Circulation Research</i> , 2005, 97, 252-259.	2.0	164
3	Na ⁺ /Ca ²⁺ exchange and Na ⁺ /K ⁺ -ATPase in the heart. <i>Journal of Physiology</i> , 2015, 593, 1361-1382.	1.3	160
4	Ca ²⁺ /Calmodulin-Dependent Protein Kinase β and Protein Kinase D Overexpression Reinforce the Histone Deacetylase 5 Redistribution in Heart Failure. <i>Circulation Research</i> , 2008, 102, 695-702.	2.0	143
5	Regulation of Ca ²⁺ and Na ⁺ in Normal and Failing Cardiac Myocytes. <i>Annals of the New York Academy of Sciences</i> , 2006, 1080, 165-177.	1.8	128
6	Measuring Local Gradients of Intramitochondrial [Ca ²⁺] in Cardiac Myocytes During Sarcoplasmic Reticulum Ca ²⁺ Release. <i>Circulation Research</i> , 2013, 112, 424-431.	2.0	107
7	Expression and Phosphorylation of the Na-Pump Regulatory Subunit Phospholemman in Heart Failure. <i>Circulation Research</i> , 2005, 97, 558-565.	2.0	100
8	Biosensors to Measure Inositol 1,4,5-Trisphosphate Concentration in Living Cells with Spatiotemporal Resolution. <i>Journal of Biological Chemistry</i> , 2006, 281, 608-616.	1.6	92
9	CaMKII signaling in heart diseases: Emerging role in diabetic cardiomyopathy. <i>Journal of Molecular and Cellular Cardiology</i> , 2019, 127, 246-259.	0.9	92
10	RhoA protects the mouse heart against ischemia/reperfusion injury. <i>Journal of Clinical Investigation</i> , 2011, 121, 3269-3276.	3.9	83
11	Fluorescence Resonance Energy Transfer-Based Sensor Camui Provides New Insight Into Mechanisms of Calcium/Calmodulin-Dependent Protein Kinase II Activation in Intact Cardiomyocytes. <i>Circulation Research</i> , 2011, 109, 729-738.	2.0	82
12	Hyperglycemia Acutely Increases Cytosolic Reactive Oxygen Species via <i>NO</i> -linked GlcNAcylation and CaMKII Activation in Mouse Ventricular Myocytes. <i>Circulation Research</i> , 2020, 126, e80-e96.	2.0	82
13	S-Nitrosylation Induces Both Autonomous Activation and Inhibition of Calcium/Calmodulin-dependent Protein Kinase II β . <i>Journal of Biological Chemistry</i> , 2015, 290, 25646-25656.	1.6	81
14	Myocyte Nitric Oxide Synthase 2 Contributes to Blunted β^2 -Adrenergic Response in Failing Human Hearts by Decreasing Ca ²⁺ Transients. <i>Circulation</i> , 2004, 109, 1886-1891.	1.6	78
15	Early Remodeling of Perinuclear Ca ²⁺ Stores and Nucleoplasmic Ca ²⁺ Signaling During the Development of Hypertrophy and Heart Failure. <i>Circulation</i> , 2014, 130, 244-255.	1.6	74
16	Complex electrophysiological remodeling in postinfarction ischemic heart failure. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E3036-E3044.	3.3	72
17	Isoform Specificity of the Na/K-ATPase Association and Regulation by Phospholemman. <i>Journal of Biological Chemistry</i> , 2009, 284, 26749-26757.	1.6	65
18	Phospholemman Phosphorylation Mediates the Protein Kinase C-Dependent Effects on Na ⁺ /K ⁺ Pump Function in Cardiac Myocytes. <i>Circulation Research</i> , 2006, 99, 1376-1383.	2.0	64

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19	Nuclear Translocation of Cardiac G Protein-Coupled Receptor Kinase 5 Downstream of Select Gq-Activating Hypertrophic Ligands Is a Calmodulin-Dependent Process. <i>PLoS ONE</i> , 2013, 8, e57324.	1.1	60
20	Novel Epac fluorescent ligand reveals distinct Epac1 vs. Epac2 distribution and function in cardiomyocytes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 3991-3996.	3.3	57
21	Evidence for cardiac sodium-calcium exchanger association with caveolin-3. <i>FEBS Letters</i> , 2002, 511, 113-117.	1.3	56
22	Phospholamban Oligomerization, Quaternary Structure, and Sarco(endo)plasmic Reticulum Calcium ATPase Binding Measured by Fluorescence Resonance Energy Transfer in Living Cells. <i>Journal of Biological Chemistry</i> , 2008, 283, 12202-12211.	1.6	56
23	The human phospholamban Arg14-deletion mutant localizes to plasma membrane and interacts with the Na/K-ATPase. <i>Journal of Molecular and Cellular Cardiology</i> , 2012, 52, 773-782.	0.9	50
24	Phospholemman Phosphorylation Alters Its Fluorescence Resonance Energy Transfer with the Na/K-ATPase Pump. <i>Journal of Biological Chemistry</i> , 2006, 281, 32765-32773.	1.6	49
25	The Cardiac Sodium-Calcium Exchanger Associates with Caveolin-3. <i>Annals of the New York Academy of Sciences</i> , 2002, 976, 197-204.	1.8	46
26	Acute β -Adrenergic Activation Triggers Nuclear Import of Histone Deacetylase 5 and Delays Gq-induced Transcriptional Activation. <i>Journal of Biological Chemistry</i> , 2013, 288, 192-204.	1.6	44
27	Junctional Cleft $[Ca^{2+}]_i$ Measurements Using Novel Cleft-Targeted Ca^{2+} Sensors. <i>Circulation Research</i> , 2014, 115, 339-347.	2.0	44
28	Genetically Encoded Biosensors Reveal PKA Hyperphosphorylation on the Myofilaments in Rabbit Heart Failure. <i>Circulation Research</i> , 2016, 119, 931-943.	2.0	43
29	Hyperglycemia regulates cardiac K^+ channels via O-GlcNAc-CaMKII and NOX2-ROS-PKC pathways. <i>Basic Research in Cardiology</i> , 2020, 115, 71.	2.5	43
30	Dynamic changes in free Ca-calmodulin levels in adult cardiac myocytes. <i>Journal of Molecular and Cellular Cardiology</i> , 2006, 41, 451-458.	0.9	42
31	Spatiotemporally Distinct Protein Kinase D Activation in Adult Cardiomyocytes in Response to Phenylephrine and Endothelin. <i>Journal of Biological Chemistry</i> , 2011, 286, 33390-33400.	1.6	38
32	Intracellular β -Adrenergic Receptors and Organic Cation Transporter 3 Mediate Phospholamban Phosphorylation to Enhance Cardiac Contractility. <i>Circulation Research</i> , 2021, 128, 246-261.	2.0	38
33	CaMKII Serine 280 O-GlcNAcylation Links Diabetic Hyperglycemia to Proarrhythmia. <i>Circulation Research</i> , 2021, 129, 98-113.	2.0	38
34	Differential Integration of Ca^{2+} -Calmodulin Signal in Intact Ventricular Myocytes at Low and High Affinity Ca^{2+} -Calmodulin Targets. <i>Journal of Biological Chemistry</i> , 2008, 283, 31531-31540.	1.6	37
35	Cardiomyocyte Na^+ and Ca^{2+} mishandling drives vicious cycle involving CaMKII, ROS, and ryanodine receptors. <i>Basic Research in Cardiology</i> , 2021, 116, 58.	2.5	33
36	Adenoviral Gene Transfer of Mutant Phospholamban Rescues Contractile Dysfunction in Failing Rabbit Myocytes With Relatively Preserved SERCA Function. <i>Circulation Research</i> , 2005, 96, 815-817.	2.0	31

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37	CaMKII β Drives Early Adaptive Ca ²⁺ Change and Late Eccentric Cardiac Hypertrophy. <i>Circulation Research</i> , 2020, 127, 1159-1178.	2.0	31
38	Altered Repolarization Reserve in Failing Rabbit Ventricular Myocytes. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2018, 11, e005852.	2.1	30
39	Role of phospholemman phosphorylation sites in mediating kinase-dependent regulation of the Na ⁺ -K ⁺ -ATPase. <i>American Journal of Physiology - Cell Physiology</i> , 2010, 299, C1363-C1369.	2.1	29
40	Phosphomimetic Mutations Enhance Oligomerization of Phospholemman and Modulate Its Interaction with the Na/K-ATPase. <i>Journal of Biological Chemistry</i> , 2011, 286, 9120-9126.	1.6	29
41	Enhanced Depolarization Drive in Failing Rabbit Ventricular Myocytes. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2019, 12, e007061.	2.1	29
42	Empagliflozin Reverses Late Na ⁺ Current Enhancement and Cardiomyocyte Proarrhythmia in a Translational Murine Model of Heart Failure With Preserved Ejection Fraction. <i>Circulation</i> , 2022, 145, 1029-1031.	1.6	27
43	Two-hit mechanism of cardiac arrhythmias in diabetic hyperglycaemia: reduced repolarization reserve, neurohormonal stimulation, and heart failure exacerbate susceptibility. <i>Cardiovascular Research</i> , 2021, 117, 2781-2793.	1.8	26
44	Cardiac CaMKII activation promotes rapid translocation to its extra-dyadic targets. <i>Journal of Molecular and Cellular Cardiology</i> , 2018, 125, 18-28.	0.9	22
45	Visualizing CaMKII and CaM activity: a paradigm of compartmentalized signaling. <i>Journal of Molecular Medicine</i> , 2013, 91, 907-916.	1.7	21
46	Emergency Spatiotemporal Shift: The Response of Protein Kinase D to Stress Signals in the Cardiovascular System. <i>Frontiers in Pharmacology</i> , 2017, 8, 9.	1.6	21
47	Multimodal SHG-2PF Imaging of Microdomain Ca ²⁺ -Contraction Coupling in Live Cardiac Myocytes. <i>Circulation Research</i> , 2016, 118, e19-28.	2.0	19
48	Aging Disrupts Normal Time-of-Day Variation in Cardiac Electrophysiology. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2020, 13, e008093.	2.1	16
49	Na ⁺ /K ⁺ -ATPase E960 and phospholemman F28 are critical for their functional interaction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 20756-20761.	3.3	15
50	CaMKII and PKA-dependent phosphorylation co-regulate nuclear localization of HDAC4 in adult cardiomyocytes. <i>Basic Research in Cardiology</i> , 2021, 116, 11.	2.5	15
51	β -Adrenergic Signaling Inhibits G _q -Dependent Protein Kinase D Activation by Preventing Protein Kinase D Translocation. <i>Circulation Research</i> , 2014, 114, 1398-1409.	2.0	13
52	Mechanical Load Regulates Excitation-Ca ²⁺ Signaling-Contraction in Cardiomyocyte. <i>Circulation Research</i> , 2021, 128, 772-774.	2.0	9
53	Subcellular Propagation of Cardiomyocyte β -Adrenergic Activation of Calcium Uptake Involves Internal β -Receptors and AKAP7. <i>Function</i> , 2022, 3, .	1.1	6
54	L30A Mutation of Phospholemman Mimics Effects of Cardiac Glycosides in Isolated Cardiomyocytes. <i>Biochemistry</i> , 2016, 55, 6196-6204.	1.2	5

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55	Diabetic Hyperglycemia Regulates Potassium Channels and Arrhythmias in the Heart via Autonomous CaMKII Activation by O-Linked Glycosylation. <i>Biophysical Journal</i> , 2019, 116, 98a.	0.2	5
56	Beat-to-beat dynamic regulation of intracellular pH in cardiomyocytes. <i>IScience</i> , 2022, 25, 103624.	1.9	4
57	Deciphering cellular signals in adult mouse sinoatrial node cells. <i>IScience</i> , 2022, 25, 103693.	1.9	4
58	Expressing and purifying membrane transport proteins in high yield. <i>Journal of Proteomics</i> , 2002, 50, 233-243.	2.4	3
59	Sodium-Calcium Exchange Crystallization. <i>Annals of the New York Academy of Sciences</i> , 2002, 976, 100-102.	1.8	2
60	Junctional Cleft [Ca] ⁱ Measurements using Novel Cleft-Targeted Ca Sensors. <i>Biophysical Journal</i> , 2012, 102, 408a.	0.2	2
61	Nuclear remodelling: a consequence of nucleocytoplasmic traffic run amok?. <i>Cardiovascular Research</i> , 2015, 105, 6-7.	1.8	2
62	Endothelin and Phenylephrine Both Trigger Nuclear IP3 Elevation, but Differ in Ability to Activate Nuclear HDAC5 Export. <i>Biophysical Journal</i> , 2010, 98, 308a-309a.	0.2	0
63	Phosphomimetic Mutations Increase FXD1 Oligomerization, but Does Not Alter its Quaternary Conformation. <i>Biophysical Journal</i> , 2010, 98, 171a.	0.2	0
64	Na Pump E960 Site is Critical for the Interaction with Phospholemman. <i>Biophysical Journal</i> , 2011, 100, 464a.	0.2	0
65	Identification of Phospholemman Residues Critical to Phospholemman Oligomerization and Na Pump Association. <i>Biophysical Journal</i> , 2011, 100, 466a.	0.2	0
66	Structure Transitions of the Sodium, Potassium-ATPase Investigated by Intramolecular FRET. <i>Biophysical Journal</i> , 2013, 104, 71a.	0.2	0
67	Superinhibitory Phospholemman Mutants as Potential Therapeutics for Heart Failure. <i>Biophysical Journal</i> , 2013, 104, 153a.	0.2	0
68	The PLM Homotetramer has a Structural Basis that Parallels that of PLB: The Leucine Zipper. <i>Biophysical Journal</i> , 2013, 104, 407a.	0.2	0
69	Multimodal second harmonic generation and two photon fluorescence imaging of microdomain calcium contraction coupling in single cardiomyocytes. , 2016, , .		0
70	Mechano-Chemo-Transduction in Rabbit Cardiomyocytes Mediated by no Signaling. <i>Biophysical Journal</i> , 2016, 110, 600a.	0.2	0
71	CA ²⁺ Tides in Cardiomyocytes Under Mechanical Loading. <i>Biophysical Journal</i> , 2016, 110, 100a.	0.2	0
72	Dynamic Regulation of Intracellular PH in the Heart. <i>Biophysical Journal</i> , 2021, 120, 103a.	0.2	0

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73	Inhibition of hsp27 Phosphorylation Increases Interaction with Hic5 in Vascular Myocytes. FASEB Journal, 2008, 22, 1208.8.	0.2	0
74	Assessing GPCR and G Protein Signaling to the Nucleus in Live Cells Using Fluorescent Biosensors. Methods in Molecular Biology, 2015, 1234, 149-159.	0.4	0
75	Stoichiometry of the sodium pump-phospholemman regulatory complex. Biophysical Journal, 2022, 121, 461a-462a.	0.2	0