Nazha Hamdani

List of Publications by Year
in descending order

102	6,415	40	77
papers	citations	h-index	g-index

76326 69250

104	104	104	7337
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Diastolic Stiffness of the Failing Diabetic Heart. Circulation, 2008, 117, 43-51.	1.6	621
2	Low Myocardial Protein Kinase G Activity in Heart Failure With Preserved Ejection Fraction. Circulation, 2012, 126, 830-839.	1.6	418
3	Myocardial Microvascular Inflammatory Endothelial Activation in Heart Failure With Preserved Ejection Fraction. JACC: Heart Failure, 2016, 4, 312-324.	4.1	390
4	Hypophosphorylation of the Stiff N2B Titin Isoform Raises Cardiomyocyte Resting Tension in Failing Human Myocardium. Circulation Research, 2009, 104, 780-786.	4.5	318
5	Gigantic Business. Circulation Research, 2014, 114, 1052-1068.	4.5	288
6	Phosphodiesterase 9A controls nitric-oxide-independent cGMP and hypertrophic heart disease. Nature, 2015, 519, 472-476.	27.8	274
7	Myocardial Titin Hypophosphorylation Importantly Contributes to Heart Failure With Preserved Ejection Fraction in a Rat Metabolic Risk Model. Circulation: Heart Failure, 2013, 6, 1239-1249.	3.9	241
8	The continuous heart failure spectrum: moving beyond an ejection fraction classification. European Heart Journal, 2019, 40, 2155-2163.	2.2	195
9	Deranged myofilament phosphorylation and function in experimental heart failure with preserved ejection fraction. Cardiovascular Research, 2013, 97, 464-471.	3.8	191
10	S-Glutathionylation of Cryptic Cysteines Enhances Titin Elasticity by Blocking Protein Folding. Cell, 2014, 156, 1235-1246.	28.9	170
11	Empagliflozin improves endothelial and cardiomyocyte functionÂin human heart failure with preserved ejection fraction via reduced pro-inflammatory-oxidative pathways and protein kinase GÎ± oxidation. Cardiovascular Research, 2021, 117, 495-507.	3.8	167
12	Empagliflozin directly improves diastolic function in human heart failure. European Journal of Heart Failure, 2018, 20, 1690-1700.	7.1	165
13	Sildenafil and B-Type Natriuretic Peptide Acutely Phosphorylate Titin and Improve Diastolic Distensibility In Vivo. Circulation, 2011, 124, 2882-2891.	1.6	162
14	Crucial Role for Ca ²⁺ /Calmodulin-Dependent Protein Kinase-II in Regulating Diastolic Stress of Normal and Failing Hearts via Titin Phosphorylation. Circulation Research, 2013, 112, 664-674.	4.5	160
15	Sarcomeric dysfunction in heart failure. Cardiovascular Research, 2007, 77, 649-658.	3.8	150
16	Treatments targeting inotropy. European Heart Journal, 2019, 40, 3626-3644.	2.2	123
17	The innate immune system in chronic cardiomyopathy: a European Society of Cardiology (ESC) scientific statement from the Working Group on Myocardial Function of the ESC. European Journal of Heart Failure, 2018, 20, 445-459.	7.1	118
18	Human myocytes are protected from titin aggregation-induced stiffening by small heat shock proteins. Journal of Cell Biology, 2014, 204, 187-202.	5.2	98

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19	Absence of Thrombospondin-2 Causes Age-Related Dilated Cardiomyopathy. Circulation, 2009, 120, 1585-1597.	1.6	92
20	Complex roads from genotype to phenotype in dilated cardiomyopathy: scientific update from the Working Group of Myocardial Function of the European Society of Cardiology. Cardiovascular Research, 2018, 114, 1287-1303.	3.8	91
21	Towards standardization of echocardiography for the evaluation of left ventricular function in adult rodents: a position paper of the ESC Working Group on Myocardial Function. Cardiovascular Research, 2021, 117, 43-59.	3.8	72
22	Cardiac contractility modulation: mechanisms of action in heart failure with reduced ejection fraction and beyond. European Journal of Heart Failure, 2019, 21, 14-22.	7.1	71
23	Left ventricular diastolic dysfunction and myocardial stiffness in diabetic mice is attenuated by inhibition of dipeptidyl peptidase 4. Cardiovascular Research, 2014, 104, 423-431.	3.8	70
24	A porcine model of hypertensive cardiomyopathy: implications for heart failure with preserved ejection fraction. American Journal of Physiology - Heart and Circulatory Physiology, 2015, 309, H1407-H1418.	3.2	70
25	Lack of specificity of antibodies directed against human beta-adrenergic receptors. Naunyn-Schmiedeberg's Archives of Pharmacology, 2009, 379, 403-407.	3.0	69
26	Myofilament dysfunction in cardiac disease from mice to men. Journal of Muscle Research and Cell Motility, 2008, 29, 189-201.	2.0	67
27	Tampering with springs: phosphorylation of titin affecting the mechanical function of cardiomyocytes. Biophysical Reviews, 2017, 9, 225-237.	3.2	65
28	Diabetes-Induced Cardiomyocyte Passive Stiffening Is Caused by Impaired Insulin-Dependent Titin Modification and Can Be Modulated by Neuregulin-1. Circulation Research, 2018, 123, 342-355.	4.5	64
29	Metabolic changes in hypertrophic cardiomyopathies: scientific update from the Working Group of Myocardial Function of the European Society of Cardiology. Cardiovascular Research, 2018, 114, 1273-1280.	3.8	64
30	Aging-regulated anti-apoptotic long non-coding RNA Sarrah augments recovery from acute myocardial infarction. Nature Communications, 2020, 11, 2039.	12.8	63
31	Interleukin-6 receptor inhibition modulates the immune reaction and restores titin phosphorylation in experimental myocarditis. Basic Research in Cardiology, 2014, 109, 449.	5.9	55
32	Increased passive stiffness promotes diastolic dysfunction despite improved Ca2+ handling during left ventricular concentric hypertrophy. Cardiovascular Research, 2017, 113, 1161-1172.	3.8	54
33	Cardiac mechanisms of the beneficial effects of SGLT2 inhibitors in heart failure: Evidence for potential off-target effects. Journal of Molecular and Cellular Cardiology, 2022, 167, 17-31.	1.9	52
34	Sphingosineâ€1â€Phosphate Receptor 1 Regulates Cardiac Function by Modulating Ca ²⁺ Sensitivity and Na ⁺ /H ⁺ Exchange and Mediates Protection by Ischemic Preconditioning. Journal of the American Heart Association, 2016, 5, .	3.7	51
35	Cardiac dysfunction in cancer patients: beyond direct cardiomyocyte damage of anticancer drugs: novel cardio-oncology insights from the joint 2019 meeting of the ESC Working Groups of Myocardial Function and Cellular Biology of the Heart. Cardiovascular Research, 2020, 116, 1820-1834.	3.8	51
36	Distinct myocardial effects of beta-blocker therapy in heart failure with normal and reduced left ventricular ejection fraction. European Heart Journal, 2009, 30, 1863-1872.	2.2	50

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37	Mode-of-action of the PROPELLA concept in fulminant myocarditis. European Heart Journal, 2019, 40, 2164-2169.	2.2	49
38	Intercellular communication lessons in heart failure. European Journal of Heart Failure, 2015, 17, 1091-1103.	7.1	47
39	The molecular mechanisms associated with the physiological responses to inflammation and oxidative stress in cardiovascular diseases. Biophysical Reviews, 2020, 12, 947-968.	3.2	47
40	Protein phosphatase 5 regulates titin phosphorylation and function at a sarcomere-associated mechanosensor complex in cardiomyocytes. Nature Communications, 2018, 9, 262.	12.8	44
41	SGLT2 Inhibitors and Their Mode of Action in Heart Failureâ€"Has the Mystery Been Unravelled?. Current Heart Failure Reports, 2021, 18, 315-328.	3.3	43
42	Cardiac contractility modulation signals improve exercise intolerance and maladaptive regulation of cardiac key proteins for systolic and diastolic function in HFpEF. International Journal of Cardiology, 2016, 203, 1061-1066.	1.7	42
43	Non-coding RNAs: update on mechanisms and therapeutic targets from the ESC Working Groups of Myocardial Function and Cellular Biology of the Heart. Cardiovascular Research, 2020, 116, 1805-1819.	3.8	39
44	Regulation of titin-based cardiac stiffness by unfolded domain oxidation (UnDOx). Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 24545-24556.	7.1	37
45	Leveraging clinical epigenetics in heart failure with preserved ejection fraction: a call for individualized therapies. European Heart Journal, 2021, 42, 1940-1958.	2.2	34
46	Effects of Atrial Fibrillation on the Human Ventricle. Circulation Research, 2022, 130, 994-1010.	4.5	32
47	Modulation of Titin-Based Stiffness in Hypertrophic Cardiomyopathy via Protein Kinase D. Frontiers in Physiology, 2020, 11, 240.	2.8	31
48	Animal models and animal-free innovations for cardiovascular research: current status and routes to be explored. Consensus document of the ESC Working Group on Myocardial Function and the ESC Working Group on Cellular Biology of the Heart. Cardiovascular Research, 2022, 118, 3016-3051.	3.8	30
49	From comorbidities to heart failure with preserved ejection fraction: a story of oxidative stress. Heart, 2016, 102, 320-330.	2.9	29
50	Enhanced Cardiomyocyte Function in Hypertensive Rats With Diastolic Dysfunction and Human Heart Failure Patients After Acute Treatment With Soluble Guanylyl Cyclase (sGC) Activator. Frontiers in Physiology, 2020, 11, 345.	2.8	29
51	A change of heart: oxidative stress in governing muscle function?. Biophysical Reviews, 2015, 7, 321-341.	3.2	28
52	Placenta-Derived Adherent Stromal Cells Improve Diabetes Mellitus-Associated Left Ventricular Diastolic Performance. Stem Cells Translational Medicine, 2017, 6, 2135-2145.	3.3	28
53	CX3CR1 knockout aggravates Coxsackievirus B3-induced myocarditis. PLoS ONE, 2017, 12, e0182643.	2.5	28
54	Diastolic dysfunction is initiated by cardiomyocyte impairment ahead of endothelial dysfunction due to increased oxidative stress and inflammation in an experimental prediabetes model. Journal of Molecular and Cellular Cardiology, 2019, 137, 119-131.	1.9	27

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55	Reciprocal organ interactions during heart failure: a position paper from the ESC Working Group on Myocardial Function. Cardiovascular Research, 2021, 117, 2416-2433.	3.8	27
56	C-type natriuretic peptide moderates titin-based cardiomyocyte stiffness. JCI Insight, 2020, 5, .	5.0	25
57	CaMKII activity contributes to homeometric autoregulation of the heart: A novel mechanism for the Anrep effect. Journal of Physiology, 2020, 598, 3129-3153.	2.9	23
58	Î±-B Crystallin Reverses High Diastolic Stiffness of Failing Human Cardiomyocytes. Circulation: Heart Failure, 2017, 10, e003626.	3.9	20
59	Early myocardial changes induced by doxorubicin in the nonfailing dilated ventricle. American Journal of Physiology - Heart and Circulatory Physiology, 2019, 316, H459-H475.	3.2	19
60	Stretch-induced compliance: a novel adaptive biological mechanism following acute cardiac load. Cardiovascular Research, 2018, 114, 656-667.	3.8	18
61	The Interplay between S-Glutathionylation and Phosphorylation of Cardiac Troponin I and Myosin Binding Protein C in End-Stage Human Failing Hearts. Antioxidants, 2021, 10, 1134.	5.1	16
62	Stratified Treatment of Heart Failure with preserved Ejection Fraction: rationale and design of the STADIAâ€HFpEF trial. ESC Heart Failure, 2020, 7, 4478-4487.	3.1	15
63	Stress activated signalling impaired protein quality control pathways in human hypertrophic cardiomyopathy. International Journal of Cardiology, 2021, 344, 160-169.	1.7	15
64	Current Understanding of Molecular Pathophysiology of Heart Failure With Preserved Ejection Fraction. Frontiers in Physiology, 0, 13, .	2.8	13
65	Potential Mechanisms of SGLT2 Inhibitors for the Treatment of Heart Failure With Preserved Ejection Fraction. Frontiers in Physiology, 2021, 12, 752370.	2.8	12
66	Molecular and pathophysiological links between heart failure with preserved ejection fraction and type 2 diabetes mellitus. European Journal of Heart Failure, 2018, 20, 1649-1652.	7.1	11
67	Characterization of biventricular alterations in myocardial (reverse) remodelling in aortic banding-induced chronic pressure overload. Scientific Reports, 2019, 9, 2956.	3.3	11
68	Regression of left ventricular hypertrophy with SGLT2 inhibitors. European Heart Journal, 2020, 41, 3433-3436.	2.2	11
69	Long-term effects of empagliflozin on excitation-contraction-coupling in human induced pluripotent stem cell cardiomyocytes. Journal of Molecular Medicine, 2020, 98, 1689-1700.	3.9	10
70	Methylation of the Hippo effector YAP by the methyltransferase SETD7 drives myocardial ischaemic injury: a translational study. Cardiovascular Research, 2023, 118, 3374-3385.	3.8	10
71	SARS-CoV-2 infects human cardiomyocytes promoted by inflammation and oxidative stress. International Journal of Cardiology, 2022, 362, 196-205.	1.7	9
72	Treatment of Heart Failure With Normal Ejection Fraction. Current Treatment Options in Cardiovascular Medicine, 2011, 13, 26-34.	0.9	8

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73	MALDIâ€MS as a Tool to Determine the Myocardial Response to Syndecanâ€2â€Selected Mesenchymal Stromal Cell Application in an Experimental Model of Diabetic Cardiomyopathy. Proteomics - Clinical Applications, 2021, 15, e2000050.	1.6	8
74	De Novo Missense Mutations in TNNC1 and TNNI3 Causing Severe Infantile Cardiomyopathy Affect Myofilament Structure and Function and Are Modulated by Troponin Targeting Agents. International Journal of Molecular Sciences, 2021, 22, 9625.	4.1	8
75	Acute stimulation of the soluble guanylate cyclase does not impact on left ventricular capacitance in normal and hypertrophied porcine hearts in vivo. American Journal of Physiology - Heart and Circulatory Physiology, 2018, 315, H669-H680.	3.2	6
76	Prophylactic, single-drug cardioprotection in a comparative, experimental study of doxorubicin-induced cardiomyopathy. Journal of Translational Medicine, 2020, 18, 470.	4.4	6
77	Linagliptin prevents left ventricular stiffening by reducing titin cleavage and hypophosphorylation. Journal of Cellular and Molecular Medicine, 2021, 25, 729-741.	3.6	6
78	Interventricular Differences of Signaling Pathways-Mediated Regulation of Cardiomyocyte Function in Response to High Oxidative Stress in the Post-Ischemic Failing Rat Heart. Antioxidants, 2021, 10, 964.	5.1	5
79	Integration of Cardiac Actin Mutants Causing Hypertrophic (p.A295S) and Dilated Cardiomyopathy (p.R312H and p.E361G) into Cellular Structures. Antioxidants, 2021, 10, 1082.	5.1	5
80	Alteration of the beta-adrenergic signaling pathway in human heart failure. Current Pharmaceutical Biotechnology, 2012, 13, 2522-31.	1.6	5
81	Ca2+/calmodulinâ€dependent protein kinase II and protein kinase G oxidation contributes to impaired sarcomeric proteins in hypertrophy model. ESC Heart Failure, 2022, 9, 2585-2600.	3.1	5
82	A mechanistic rationale for the investigation of sodiumâ€"glucose coâ€transporter 2 inhibitors in heart failure with preserved ejection fraction. Letter regarding the article â€˜Baseline characteristics of patients with heart failure with preserved ejection fraction in the <scp>EMPERORâ€Preserved</scp> trialâ€™. European Journal of Heart Failure, 2021, 23, 841-841.	7.1	4
83	Impact of Syndecan-2-Selected Mesenchymal Stromal Cells on the Early Onset of Diabetic Cardiomyopathy in Diabetic db/db Mice. Frontiers in Cardiovascular Medicine, 2021, 8, 632728.	2.4	4
84	Cardiomyocyte Dysfunction in Inherited Cardiomyopathies. International Journal of Molecular Sciences, 2021, 22, 11154.	4.1	3
85	Nicotinicâ€acid derivative BGPâ€15 improves diastolic function in a rabbit model of atherosclerotic cardiomyopathy. British Journal of Pharmacology, 2022, 179, 2240-2258.	5.4	3
86	Functional Characterization of Cardiac Actin Mutants Causing Hypertrophic (p.A295S) and Dilated Cardiomyopathy (p.R312H and p.E361G). International Journal of Molecular Sciences, 2022, 23, 4465.	4.1	3
87	Response to Letter Regarding Article, â€œDiastolic Stiffness of the Failing Diabetic Heart: Importance of Fibrosis, Advanced Glycation End Products, and Myocyte Resting Tensionâ€• Circulation, 2008, 117, .	1.6	2
88	Increased nitrosative/oxidative stress lowers myocardial protein kinase G activity in heart failure with preserved ejection fraction. BMC Pharmacology & Toxicology, 2013, 14, .	2.4	2
89	Impact of cGMP-PKG Pathway Modulation on Titin Phosphorylation and Titin-Based Myocardial Passive Stiffness. Biophysical Journal, 2016, 110, 526a.	0.5	1
90	Do they come together? Protein quality control, stress-activated signaling, and â€œsarcostatâ€•in hypertrophic cardiomyopathy progression. International Journal of Cardiology, 2022, 347, 44-45.	1.7	1

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91	Myocardial Titin: An Important Modifier of Cardiac Stiffness. Biophysical Journal, 2014, 106, 346a.	0.5	0
92	Small Heat Shock Proteins Prevent Titin Aggregation-Induced Stiffening in Human Myocytes. Biophysical Journal, 2014, 106, 160a.	0.5	0
93	Large-Scale Modulation of Titin Elasticity by S-Glutathionylation of Cryptic Cysteines. Biophysical Journal, 2014, 106, 454a.	0.5	0
94	Oxidative Stress Regulates Titin Elasticity by Affecting Ig-Domain Stability. Biophysical Journal, 2015, 108, 444a.	0.5	0
95	A Novel Role for PP5 in Regulating Titin Phosphorylation and Function in the Heart. Biophysical Journal, 2016, 110, 298a.	0.5	0
96	Impact of cGMP-PKG Pathway Modulation on Titin Phosphorylation and Titin-Based Myocardial Passive Stiffness. Biophysical Journal, 2017, 112, 257a.	0.5	0
97	Cardiac transcriptomic remodeling in metabolic syndrome. , 2021, , 187-211.		0
98	Human myocytes are protected from titin aggregation-induced stiffening by small heat shock proteins. Journal of General Physiology, 2014, 143, 1432OIA1.	1.9	0
99	Abstract 210: Titin Phosphorylation by Protein Kinase G as a Novel Mechanism of Diastolic Adaptation to Acute Hemodynamic Overload. Circulation Research, 2015, 117, .	4.5	0
100	The PDE9A inhibitor PF04447943 improves coronary arteriole vasodilation and left ventricular diastolic dysfunction in HFpEF. FASEB Journal, 2019, 33, 693.10.	0.5	0
101	Abstract 10973: Tenascin-C Deficiency Rescues the Effect of Diabetes on Cardiac and Vascular Dysfunction in Mice. Circulation, 2021, 144, .	1.6	0
102	Abstract 10477: Targeting the Methyltransferase Setd7 Prevents Myocardial Ischemic Injury: A Translational Study. Circulation, 2021, 144, .	1.6	0