

# Daniele Catalucci

## List of Publications by Year in descending order

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91  
papers

7,473  
citations

101543

36  
h-index

60623

81  
g-index

98  
all docs

98  
docs citations

98  
times ranked

11280  
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthetic recovery of impulse propagation in myocardial infarction via silicon carbide semiconductive nanowires. <i>Nature Communications</i> , 2022, 13, 6.	12.8	7
2	Biocompatible antimicrobial colistin loaded calcium phosphate nanoparticles for the counteraction of biofilm formation in cystic fibrosis related infections. <i>Journal of Inorganic Biochemistry</i> , 2022, 230, 111751.	3.5	5
3	Modulation of LTCC Pathways by a Melusin Mimetic Increases Ventricular Contractility During LPS-Induced Cardiomyopathy. <i>Shock</i> , 2022, 57, 318-325.	2.1	1
4	Mitochondrial a Kinase Anchor Proteins in Cardiovascular Health and Disease: A Review Article on Behalf of the Working Group on Cellular and Molecular Biology of the Heart of the Italian Society of Cardiology. <i>International Journal of Molecular Sciences</i> , 2022, 23, 7691.	4.1	1
5	The role of mitochondrial dynamics in cardiovascular diseases. <i>British Journal of Pharmacology</i> , 2021, 178, 2060-2076.	5.4	118
6	Optimization of In Vivo Studies by Combining Planar Dynamic and Tomographic Imaging: Workflow Evaluation on a Superparamagnetic Nanoparticles System. <i>Molecular Imaging</i> , 2021, 2021, 6677847.	1.4	1
7	Cardio Ultraefficient nanoParticles for Inhalation of Drug prOducts: when CUPIDO hits the nano-revolution in cardiology. <i>European Heart Journal</i> , 2021, 42, 3217-3220.	2.2	0
8	Myopalladin knockout mice develop cardiac dilation and show a maladaptive response to mechanical pressure overload. <i>ELife</i> , 2021, 10, .	6.0	12
9	Inhalable Microparticles Embedding Calcium Phosphate Nanoparticles for Heart Targeting: The Formulation Experimental Design. <i>Pharmaceutics</i> , 2021, 13, 1825.	4.5	13
10	Nano-miR-133a Replacement Therapy Blunts Pressure Overload-Induced Heart Failure. <i>Circulation</i> , 2021, 144, 1973-1976.	1.6	9
11	Calcium Phosphate Nanoparticle Precipitation by a Continuous Flow Process: A Design of Experiment Approach. <i>Crystals</i> , 2020, 10, 953.	2.2	11
12	Novel Basic Science Insights to Improve the Management of Heart Failure: Review of the Working Group on Cellular and Molecular Biology of the Heart of the Italian Society of Cardiology. <i>International Journal of Molecular Sciences</i> , 2020, 21, 1192.	4.1	8
13	Peptide-Based Targeting of the L-Type Calcium Channel Corrects the Loss-of-Function Phenotype of Two Novel Mutations of the CACNA1 Gene Associated With Brugada Syndrome. <i>Frontiers in Physiology</i> , 2020, 11, 616819.	2.8	11
14	Wnt signalling mediates miR-133a nuclear re-localization for the transcriptional control of Dnmt3b in cardiac cells. <i>Scientific Reports</i> , 2019, 9, 9320.	3.3	27
15	Disease modeling of a mutation in $\beta$ -actinin 2 guides clinical therapy in hypertrophic cardiomyopathy. <i>EMBO Molecular Medicine</i> , 2019, 11, e111115.	6.9	88
16	Cardiovascular nanomedicine: the route ahead. <i>Nanomedicine</i> , 2019, 14, 2391-2394.	3.3	29
17	High Intensity Interval Training Ameliorates Mitochondrial Dysfunction in the Left Ventricle of Mice with Type 2 Diabetes. <i>Cardiovascular Toxicology</i> , 2019, 19, 422-431.	2.7	11
18	The role of small and long non-coding RNAs in cardiac pathologies. <i>Non-coding RNA Investigation</i> , 2019, 3, 21-21.	0.6	0

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19	Computational simulation of electromagnetic fields on human targets for magnetic targeting applications. , 2019, 2019, 5674-5677.		1
20	Nanomedicine Approaches for the Pulmonary Treatment of Cystic Fibrosis. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019, 7, 406.	4.1	65
21	The noncoding-RNA landscape in cardiovascular health and disease. <i>Non-coding RNA Research</i> , 2018, 3, 12-19.	4.6	24
22	Inhalation of peptide-loaded nanoparticles improves heart failure. <i>Science Translational Medicine</i> , 2018, 10, .	12.4	132
23	A combined low-frequency electromagnetic and fluidic stimulation for a controlled drug release from superparamagnetic calcium phosphate nanoparticles: potential application for cardiovascular diseases. <i>Journal of the Royal Society Interface</i> , 2018, 15, 20180236.	3.4	19
24	MicroRNA-199a-3p and MicroRNA-199a-5p Take Part to a Redundant Network of Regulation of the NOS (NO Synthase)/NO Pathway in the Endothelium. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2018, 38, 2345-2357.	2.4	42
25	An anti-PDGFR $\beta$ aptamer for selective delivery of small therapeutic peptide to cardiac cells. <i>PLoS ONE</i> , 2018, 13, e0193392.	2.5	16
26	T cell costimulation blockade blunts pressure overload-induced heart failure. <i>Nature Communications</i> , 2017, 8, 14680.	12.8	139
27	Content of mitochondrial calcium uniporter (MCU) in cardiomyocytes is regulated by microRNA-1 in physiologic and pathologic hypertrophy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E9006-E9015.	7.1	70
28	Dnmt3a-mediated inhibition of Wnt in cardiac progenitor cells improves differentiation and remote remodeling after infarction. <i>JCI Insight</i> , 2017, 2, .	5.0	12
29	The importance of being ncRNAs: from bit players as "junk DNA" to rising stars on the stage of the pharmaceutical industry. <i>Annals of Translational Medicine</i> , 2017, 5, 147-147.	1.7	3
30	Transcriptional and Epigenetic Controls of Vascular Homeostasis458Implication of microRNA 199a3p and 199a5p in vascular function : modulation of the eNOS/NO pathway459Role of endothelial cell adenosine deaminase acting on RNA-2 in ischemic/inflammatory disease in vivo460Adventitial activation by sonic hedgehog signaling is critical for vascular remodeling. <i>Cardiovascular Research</i> , 2016, 111, S82-S82.	3.8	0
31	Exercise training reverses myocardial dysfunction induced by CaMKII $\beta$ overexpression by restoring Ca <sup>2+</sup> homeostasis. <i>Journal of Applied Physiology</i> , 2016, 121, 212-220.	2.5	14
32	Peptidomimetic Targeting of Ca <sup>v</sup> 2 Overcomes Dysregulation of the L-Type Calcium Channel Density and Recovers Cardiac Function. <i>Circulation</i> , 2016, 134, 534-546.	1.6	42
33	Biomimetic Scaffolds Integrated with Patterns of Exogenous Growth Factors. , 2016, , 255-272.		0
34	MiR-153/Kv7.4: a novel molecular axis in the regulation of hypertension. <i>Cardiovascular Research</i> , 2016, 112, 530-531.	3.8	4
35	Bioinspired negatively charged calcium phosphate nanocarriers for cardiac delivery of MicroRNAs. <i>Nanomedicine</i> , 2016, 11, 891-906.	3.3	89
36	Biomimetic Nanostructured Platforms for Biologically Inspired Medicine. , 2016, , 35-60.		1

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37	Neutrophils promote Alzheimer's disease-like pathology and cognitive decline via LFA-1 integrin. <i>Nature Medicine</i> , 2015, 21, 880-886.	30.7	589
38	FABP3 as Biomarker of Heart Pathology. <i>Biomarkers in Disease</i> , 2015, , 439-454.	0.1	5
39	Reduced aerobic capacity causes leaky ryanodine receptors that trigger arrhythmia in a rat strain artificially selected and bred for low aerobic running capacity. <i>Acta Physiologica</i> , 2014, 210, 854-864.	3.8	11
40	MicroRNA-133 Modulates the $\beta_1$ -Adrenergic Receptor Transduction Cascade. <i>Circulation Research</i> , 2014, 115, 273-283.	4.5	115
41	Inhibition of the ubiquitin ligase atrogin-1 impairs chmp2b turnover, blocks autophagy flux and causes cardiomyopathy. <i>Cardiovascular Research</i> , 2014, 103, S3.1-S3.	3.8	0
42	MiR-29a controls cardiac stem cells differentiation through Dnmt3a-mediated extinction of Wnt/beta-catenin. <i>Cardiovascular Research</i> , 2014, 103, S105.4-S106.	3.8	0
43	Atrogin-1 deficiency promotes cardiomyopathy and premature death via impaired autophagy. <i>Journal of Clinical Investigation</i> , 2014, 124, 2410-2424.	8.2	124
44	FABP3 as Biomarker of Heart Pathology. , 2014, , 1-13.		0
45	Abstract 360: MiR-133 Modulates the Beta1-Adrenergic Receptor Transduction Cascade. <i>Circulation Research</i> , 2014, 115, .	4.5	1
46	Abstract 182: Mimetic peptide overcomes dysregulated L-Type Calcium Channel density and recovers myocardial function. <i>Circulation Research</i> , 2014, 115, .	4.5	0
47	Relationship Between Downregulation of miRNAs and Increase of Oxidative Stress in the Development of Diabetic Cardiac Dysfunction: Junctin as a Target Protein of miR-1. <i>Cell Biochemistry and Biophysics</i> , 2013, 67, 1397-1408.	1.8	113
48	NF- $\kappa$ B mediated miR-26a regulation in cardiac fibrosis. <i>Journal of Cellular Physiology</i> , 2013, 228, 1433-1442.	4.1	119
49	The Circulating Level of FABP3 Is an Indirect Biomarker of MicroRNA-1. <i>Journal of the American College of Cardiology</i> , 2013, 61, 88-95.	2.8	56
50	HEXIM1: a new player in myocardial hypertrophy?. <i>Cardiovascular Research</i> , 2013, 99, 1-3.	3.8	6
51	Early upregulation of miR-29a mediates differentiation of cardiac stem cells into cardiomyocytes through inhibition of endogenous Wnt/beta-catenin. <i>European Heart Journal</i> , 2013, 34, P1452-P1452.	2.2	1
52	An SRF/miR-1 axis regulates NCX1 and Annexin A5 protein levels in the normal and failing heart. <i>Cardiovascular Research</i> , 2013, 98, 372-380.	3.8	49
53	MicroRNA-1 Downregulation Increases Connexin 43 Displacement and Induces Ventricular Tachyarrhythmias in Rodent Hypertrophic Hearts. <i>PLoS ONE</i> , 2013, 8, e70158.	2.5	67
54	Mutual antagonism between IP3R1 and miRNA-133a regulates calcium signals and cardiac hypertrophy. <i>Journal of General Physiology</i> , 2013, 141, i1-i1.	1.9	1

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55	Mutual antagonism between IP3R1 and miRNA-133a regulates calcium signals and cardiac hypertrophy. <i>Journal of Cell Biology</i> , 2012, 199, 783-798.	5.2	80
56	APJ acts as a dual receptor in cardiac hypertrophy. <i>Nature</i> , 2012, 488, 394-398.	27.8	204
57	Mir-133a regulates collagen 1A1: Potential role of miR-133a in myocardial fibrosis in angiotensin II-dependent hypertension. <i>Journal of Cellular Physiology</i> , 2012, 227, 850-856.	4.1	170
58	Altered adrenergic response in mice lacking myotonic dystrophy protein kinase. <i>Muscle and Nerve</i> , 2012, 45, 128-130.	2.2	3
59	MicroRNA-133 Controls Vascular Smooth Muscle Cell Phenotypic Switch In Vitro and Vascular Remodeling In Vivo. <i>Circulation Research</i> , 2011, 109, 880-893.	4.5	280
60	A comparative MudPIT analysis identifies different expression profiles in heart compartments. <i>Proteomics</i> , 2011, 11, 2320-2328.	2.2	32
61	Abstract P131: An Akt-Phosphomimetic Sequence of the Cavb2 C-Terminal Region Protects L-Type Calcium Channels from Protein Degradation. <i>Circulation Research</i> , 2011, 109, .	4.5	0
62	Immersion before dry simulated dive reduces cardiomyocyte function and increases mortality after decompression. <i>Journal of Applied Physiology</i> , 2010, 109, 752-757.	2.5	2
63	MTORC1 regulates cardiac function and myocyte survival through 4E-BP1 inhibition in mice. <i>Journal of Clinical Investigation</i> , 2010, 120, 2805-2816.	8.2	291
64	MTORC1 regulates cardiac function and myocyte survival through 4E-BP1 inhibition in mice. <i>Journal of Clinical Investigation</i> , 2010, 120, 3735-3735.	8.2	2
65	MicroRNAs in Cardiovascular Biology and Heart Disease. <i>Circulation: Cardiovascular Genetics</i> , 2009, 2, 402-408.	5.1	85
66	Reciprocal Regulation of MicroRNA-1 and Insulin-Like Growth Factor-1 Signal Transduction Cascade in Cardiac and Skeletal Muscle in Physiological and Pathological Conditions. <i>Circulation</i> , 2009, 120, 2377-2385.	1.6	356
67	Local anesthetics disrupt energetic coupling between the voltage-sensing segments of a sodium channel. <i>Journal of General Physiology</i> , 2009, 133, 459-459.	1.9	0
68	Interval Training Normalizes Cardiomyocyte Function, Diastolic Ca <sup>2+</sup> Control, and SR Ca <sup>2+</sup> Release Synchronicity in a Mouse Model of Diabetic Cardiomyopathy. <i>Circulation Research</i> , 2009, 105, 527-536.	4.5	173
69	Akt Increases Sarcoplasmic Reticulum Ca <sup>2+</sup> Cycling by Direct Phosphorylation of Phospholamban at Thr17. <i>Journal of Biological Chemistry</i> , 2009, 284, 28180-28187.	3.4	62
70	Akt regulates L-type Ca <sup>2+</sup> channel activity by modulating Cav1 protein stability. <i>Journal of Cell Biology</i> , 2009, 184, 923-933.	5.2	101
71	The knockout of miR-143 and -145 alters smooth muscle cell maintenance and vascular homeostasis in mice: correlates with human disease. <i>Cell Death and Differentiation</i> , 2009, 16, 1590-1598.	11.2	504
72	Akt regulates L-type Ca <sup>2+</sup> channel activity by modulating Cav1 protein stability. <i>Journal of General Physiology</i> , 2009, 133, i4-i4.	1.9	1

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73	MicroRNAs Control Gene Expression. <i>Annals of the New York Academy of Sciences</i> , 2008, 1123, 20-29.	3.8	47
74	Deciphering the $\beta^2$ -adrenergic response in human embryonic stem cell-derived-cardiac myocytes: closer to clinical use?. <i>British Journal of Pharmacology</i> , 2008, 153, 1765-1765.	5.4	0
75	Deciphering the $\beta^2$ -adrenergic response in human embryonic stem cell-derived-cardiac myocytes: closer to clinical use?. <i>British Journal of Pharmacology</i> , 2008, 153, 625-626.	5.4	2
76	Carbon Monoxide Levels Experienced by Heavy Smokers Impair Aerobic Capacity and Cardiac Contractility and Induce Pathological Hypertrophy. <i>Inhalation Toxicology</i> , 2008, 20, 635-646.	1.6	23
77	Heart failure: Targeting transcriptional and post-transcriptional control mechanisms of hypertrophy for treatment. <i>International Journal of Biochemistry and Cell Biology</i> , 2008, 40, 1643-1648.	2.8	26
78	MicroRNAs: novel regulators in cardiac development and disease. <i>Cardiovascular Research</i> , 2008, 79, 562-570.	3.8	310
79	MicroRNA and cardiac pathologies. <i>Physiological Genomics</i> , 2008, 34, 239-242.	2.3	76
80	Gene expression profiling of skeletal muscle in exercise-trained and sedentary rats with inborn high and low $VO_{2max}$ . <i>Physiological Genomics</i> , 2008, 35, 213-221.	2.3	32
81	Physiological myocardial hypertrophy: how and why?. <i>Frontiers in Bioscience - Landmark</i> , 2008, 13, 312.	3.0	86
82	MicroRNAs and the Control of Heart Pathophysiology. , 2008, , 53-68.		0
83	Emerging Role of MicroRNAs in Cardiovascular Biology. <i>Circulation Research</i> , 2007, 101, 1225-1236.	4.5	272
84	Role of Myotonic Dystrophy Protein Kinase (DMPK) in Glucose Homeostasis and Muscle Insulin Action. <i>PLoS ONE</i> , 2007, 2, e1134.	2.5	36
85	MicroRNA-133 controls cardiac hypertrophy. <i>Nature Medicine</i> , 2007, 13, 613-618.	30.7	1,652
86	Cardiac-specific overexpression of E40K active Akt prevents pressure overload-induced heart failure in mice by increasing angiogenesis and reducing apoptosis. <i>Cell Death and Differentiation</i> , 2007, 14, 1060-1062.	11.2	40
87	Comparison of contraction and calcium handling between right and left ventricular myocytes from adult mouse heart: a role for repolarization waveform. <i>Journal of Physiology</i> , 2006, 571, 131-146.	2.9	99
88	Effects of Akt on Cardiac Myocytes. <i>Circulation Research</i> , 2006, 99, 339-341.	4.5	33
89	Myotonic Dystrophy Protein Kinase Phosphorylates Phospholamban and Regulates Calcium Uptake in Cardiomyocyte Sarcoplasmic Reticulum. <i>Journal of Biological Chemistry</i> , 2005, 280, 8016-8021.	3.4	36
90	An Adenovirus Type 5 (Ad5) Amplicon-Based Packaging Cell Line for Production of High-Capacity Helper-Independent $\beta$ 1-E1-E2-E3-E4 Ad5 Vectors. <i>Journal of Virology</i> , 2005, 79, 6400-6409.	3.4	24

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91	Homology modeling of the multicopper oxidase Fet3 gives new insights in the mechanism of iron transport in yeast. <i>Protein Engineering, Design and Selection</i> , 1999, 12, 895-897.	2.1	20