

Isabella M Grumbach

List of Publications by Year in descending order

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72
papers

3,503
citations

147726
31
h-index

138417
58
g-index

76
all docs

76
docs citations

76
times ranked

5013
citing authors

#	ARTICLE	IF	CITATIONS
1	Immunohistochemical Localization of Five Members of the KV1 Channel Subunits: Contrasting Subcellular Locations and Neuron-specific Co-localizations in Rat Brain. <i>European Journal of Neuroscience</i> , 1995, 7, 2189-2205.	1.2	310
2	Endothelial mechanotransduction, nitric oxide and vascular inflammation. <i>Journal of Internal Medicine</i> , 2006, 259, 351-363.	2.7	273
3	Oxidation of CaMKII determines the cardiotoxic effects of aldosterone. <i>Nature Medicine</i> , 2011, 17, 1610-1618.	15.2	220
4	Oxidized CaMKII causes cardiac sinus node dysfunction in mice. <i>Journal of Clinical Investigation</i> , 2011, 121, 3277-3288.	3.9	193
5	CaMKII in the Cardiovascular System: Sensing Redox States. <i>Physiological Reviews</i> , 2011, 91, 889-915.	13.1	192
6	Shear Stress Regulates Endothelial Nitric-oxide Synthase Promoter Activity through Nuclear Factor κ B Binding. <i>Journal of Biological Chemistry</i> , 2004, 279, 163-168.	1.6	184
7	A negative feedback mechanism involving nitric oxide and nuclear factor kappa-B modulates endothelial nitric oxide synthase transcription. <i>Journal of Molecular and Cellular Cardiology</i> , 2005, 39, 595-603.	0.9	154
8	The p38 MAPK Pathway Mediates the Growth Inhibitory Effects of Interferon- γ in BCR-ABL-expressing Cells. <i>Journal of Biological Chemistry</i> , 2001, 276, 28570-28577.	1.6	135
9	Calmodulin kinase II is required for fight or flight sinoatrial node physiology. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 5972-5977.	3.3	130
10	Ca ²⁺ V _{1.2} β -subunit coordinates CaMKII-triggered cardiomyocyte death and afterdepolarizations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 4996-5000.	3.3	114
11	Sildenafil Prevents and Reverses Transverse-Tubule Remodeling and Ca ²⁺ Handling Dysfunction in Right Ventricle Failure Induced by Pulmonary Artery Hypertension. <i>Hypertension</i> , 2012, 59, 355-362.	1.3	84
12	Integrated genetic and epigenetic prediction of coronary heart disease in the Framingham Heart Study. <i>PLoS ONE</i> , 2018, 13, e0190549.	1.1	83
13	Mitochondrial-Targeted Antioxidant Therapy Decreases Transforming Growth Factor- β -Mediated Collagen Production in a Murine Asthma Model. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2015, 52, 106-115.	1.4	76
14	Calmodulin kinase II is required for angiotensin II-mediated vascular smooth muscle hypertrophy. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2010, 298, H688-H698.	1.5	70
15	Small Blood Vessels: Big Health Problems? Scientific Recommendations of the National Institutes of Health Workshop. <i>Journal of the American Heart Association</i> , 2016, 5, .	1.6	67
16	Monocyte activation in congestive heart failure due to coronary artery disease and idiopathic dilated cardiomyopathy. <i>International Journal of Cardiology</i> , 1998, 63, 237-244.	0.8	54
17	CaMKII Is Essential for the Proasthmatic Effects of Oxidation. <i>Science Translational Medicine</i> , 2013, 5, 195ra97.	5.8	54
18	Loss of MCU prevents mitochondrial fusion in G ₁ -S phase and blocks cell cycle progression and proliferation. <i>Science Signaling</i> , 2019, 12, .	1.6	54

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19	The Multifunctional Ca ²⁺ /Calmodulin-dependent Kinase II β (CaMKII β) Controls Neointima Formation after Carotid Ligation and Vascular Smooth Muscle Cell Proliferation through Cell Cycle Regulation by p21. <i>Journal of Biological Chemistry</i> , 2011, 286, 7990-7999.	1.6	53
20	Current Perspectives on Coronavirus Disease 2019 and Cardiovascular Disease: A White Paper by the <i>JAHA</i> Editors. <i>Journal of the American Heart Association</i> , 2020, 9, e017013.	1.6	52
21	Fibronectin Splicing Variants Containing Extra Domain A Promote Atherosclerosis in Mice Through Toll-Like Receptor 4. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2015, 35, 2391-2400.	1.1	51
22	CaMKII (Ca ²⁺ /Calmodulin-Dependent Kinase II) in Mitochondria of Smooth Muscle Cells Controls Mitochondrial Mobility, Migration, and Neointima Formation. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2018, 38, 1333-1345.	1.1	46
23	Mitochondrial CaMKII inhibition in airway epithelium protects against allergic asthma. <i>JCI Insight</i> , 2017, 2, e88297.	2.3	42
24	Highly sensitive detection of gene expression of an intronless gene: amplification of mRNA, but not genomic DNA by nucleic acid sequence based amplification (NASBA). <i>Nucleic Acids Research</i> , 1998, 26, 2250-2251.	6.5	41
25	The multifunctional Ca ²⁺ /calmodulin-dependent kinase II regulates vascular smooth muscle migration through matrix metalloproteinase 9. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2012, 302, H1953-H1964.	1.5	39
26	Coxsackievirus Genome in Myocardium of Patients with Arrhythmogenic Right Ventricular Dysplasia/Cardiomyopathy. <i>Cardiology</i> , 1998, 89, 241-245.	0.6	37
27	Preclinical Models of Cancer Therapyâ€™s Associated Cardiovascular Toxicity: A Scientific Statement From the American Heart Association. <i>Circulation Research</i> , 2021, 129, e21-e34.	2.0	37
28	Engagement of the CrkL adaptor in interferon β signalling in BCR-ABL-expressing cells. <i>British Journal of Haematology</i> , 2001, 112, 327-336.	1.2	35
29	Calcium/Calmodulinâ€‘Dependent Kinase II Inhibition in Smooth Muscle Reduces Angiotensin IIâ€‘Induced Hypertension by Controlling Aortic Remodeling and Baroreceptor Function. <i>Journal of the American Heart Association</i> , 2015, 4, e001949.	1.6	35
30	Transient Induction of Cytokine Production in Human Myocardial Fibroblasts by Coxsackievirus B3. <i>Circulation Research</i> , 2000, 86, 753-759.	2.0	33
31	Oxidative activation of the Ca ²⁺ /calmodulin-dependent protein kinase II (CaMKII) regulates vascular smooth muscle migration and apoptosis. <i>Vascular Pharmacology</i> , 2014, 60, 75-83.	1.0	32
32	Recombinant Interferons β 2 and β 3 Have a Higher Antiviral Activity than Interferon- β 1 in Coxsackievirus B3-Infected Carrier State Cultures of Human Myocardial Fibroblasts. <i>Journal of Interferon and Cytokine Research</i> , 1996, 16, 283-287.	0.5	31
33	Differential Control of Calcium Homeostasis and Vascular Reactivity by Ca ²⁺ /Calmodulin-Dependent Kinase II. <i>Hypertension</i> , 2013, 62, 434-441.	1.3	31
34	Endothelial CaMKII as a regulator of eNOS activity and NO-mediated vasoreactivity. <i>PLoS ONE</i> , 2017, 12, e0186311.	1.1	31
35	Protein methionine oxidation augments reperfusion injury in acute ischemic stroke. <i>JCI Insight</i> , 2016, 1, .	2.3	30
36	Inhibition of coxsackievirus B3 carrier state infection of cultured human myocardial fibroblasts by ribavirin and human natural interferon- β 1. <i>Antiviral Research</i> , 1997, 34, 101-111.	1.9	29

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37	Activation of the Jak-Stat Pathway in Cells That Exhibit Selective Sensitivity to the Antiviral Effects of IFN-beta Compared with IFN-alpha. <i>Journal of Interferon and Cytokine Research</i> , 1999, 19, 797-801.	0.5	28
38	Giant Cell Myocarditis due to Coxsackie B2 Virus Infection. <i>Cardiology</i> , 1997, 88, 296-299.	0.6	22
39	Cationic CaMKII Inhibiting Nanoparticles Prevent Allergic Asthma. <i>Molecular Pharmaceutics</i> , 2017, 14, 2166-2175.	2.3	22
40	Enterovirus heart disease of adults: A persistent, limited organ infection in the presence of neutralizing antibodies. , 1997, 53, 196-204.		20
41	Low Prevalence of Hepatitis C Virus Antibodies and RNA in Patients with Myocarditis and Dilated Cardiomyopathy. <i>Cardiology</i> , 1998, 90, 75-78.	0.6	20
42	The Multifunctional Ca ²⁺ /Calmodulin-Dependent Kinase II β (CaMKII β) Regulates Arteriogenesis in a Mouse Model of Flow-Mediated Remodeling. <i>PLoS ONE</i> , 2013, 8, e71550.	1.1	20
43	Inhibition of the mitochondrial calcium uniporter prevents IL-13 and allergen-mediated airway epithelial apoptosis and loss of barrier function. <i>Experimental Cell Research</i> , 2018, 362, 400-411.	1.2	20
44	The Superantigen Toxic Shock Syndrome Toxin 1 Alters Human Aortic Endothelial Cell Function. <i>Infection and Immunity</i> , 2018, 86, .	1.0	18
45	Sulpho-N-hydroxysuccinimide activated long chain biotin. <i>Journal of Immunological Methods</i> , 1991, 140, 205-210.	0.6	17
46	CaMKII inhibition in type II pneumocytes protects from bleomycin-induced pulmonary fibrosis by preventing Ca ²⁺ -dependent apoptosis. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2016, 310, L86-L94.	1.3	17
47	Spatiotemporal restriction of endothelial cell calcium signaling is required during leukocyte transmigration. <i>Journal of Experimental Medicine</i> , 2021, 218, .	4.2	17
48	MiR-204 regulates type 1 IP3R to control vascular smooth muscle cell contractility and blood pressure. <i>Cell Calcium</i> , 2019, 80, 18-24.	1.1	14
49	Interferon β activates the tyrosine kinase Lyn in haemopoietic cells. <i>British Journal of Haematology</i> , 1998, 101, 446-449.	1.2	13
50	Defective protein repair under methionine sulfoxide A deletion drives autophagy and ARE-dependent gene transcription. <i>Redox Biology</i> , 2018, 16, 401-413.	3.9	13
51	Antiviral activity of WIN 54954 in coxsackievirus B2 carrier state infected human myocardial fibroblasts. <i>Antiviral Research</i> , 1998, 37, 47-56.	1.9	12
52	Detection of Enterovirus RNA in the Myocardium of a Patient with Arrhythmogenic Right Ventricular Cardiomyopathy by In Situ Hybridization. <i>Clinical Infectious Diseases</i> , 1997, 25, 1471-1472.	2.9	11
53	Deletion of Methionine Sulfoxide Reductase A Does Not Affect Atherothrombosis but Promotes Neointimal Hyperplasia and Extracellular Signal-Regulated Kinase 1/2 Signaling. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2015, 35, 2594-2604.	1.1	10
54	Metabolic Stress. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2019, 39, 991-997.	1.1	9

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55	Longitudinal Testing of Retinal Blood Flow in a Mouse Model of Hypertension by Laser Speckle Flowgraphy. <i>Translational Vision Science and Technology</i> , 2021, 10, 16.	1.1	9
56	Temporal Relationship Between Visual Field, Retinal and Microvascular Pathology Following ¹²⁵ I-Plaque Brachytherapy for Uveal Melanoma. , 2021, 62, 3.		7
57	Region-Based Segmentation of Capillary Density in Optical Coherence Tomography Angiography. <i>Lecture Notes in Computer Science</i> , 2019, , 18-25.	1.0	5
58	Longitudinal optical coherence tomography angiography (OCT-A) in a patient with radiation retinopathy following plaque brachytherapy for uveal melanoma. <i>American Journal of Ophthalmology Case Reports</i> , 2022, 26, 101508.	0.4	5
59	Knockout of Sorbin And SH3 Domain Containing 2 (Sorbs2) in Cardiomyocytes Leads to Dilated Cardiomyopathy in Mice. <i>Journal of the American Heart Association</i> , 2022, 11, .	1.6	5
60	Role of CaMKII in Ang-II-dependent small artery remodeling. <i>Vascular Pharmacology</i> , 2016, 87, 172-179.	1.0	4
61	Cardio-Oncology at the Beginning of a New Decade. <i>Journal of the American Heart Association</i> , 2020, 9, e015890.	1.6	4
62	Measuring hyperemic response to light flicker stimulus using continuous laser speckle flowgraphy in mice. <i>Experimental Eye Research</i> , 2022, 216, 108952.	1.2	4
63	Reduced blood flow by laser speckle flowgraphy after ¹²⁵ I-plaque brachytherapy for uveal melanoma. <i>BMC Ophthalmology</i> , 2022, 22, .	0.6	4
64	Sex-Specific Differences in Endothelial Function Are Driven by Divergent Mitochondrial Ca ²⁺ Handling. <i>Journal of the American Heart Association</i> , 2022, 11, .	1.6	4
65	What Makes a Great Mentor: Interviews With Recipients of the ATVB Mentor of Women Award. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2021, 41, 2641-2647.	1.1	3
66	Neuropeptide Conjugation to Carrier Proteins. <i>Methods in Neurosciences</i> , 1993, 13, 333-351.	0.5	1
67	A "Failed" Assay Development for the Discovery of Rescuing Small Molecules from the Radiation Damage. <i>SLAS Discovery</i> , 2021, 26, 247255522110206.	1.4	1
68	OUP accepted manuscript. <i>Europace</i> , 2021, , .	0.7	1
69	CaMKII inhibition in vascular smooth muscle improves angiotensin II "hypertension. <i>FASEB Journal</i> , 2012, 26, lb599.	0.2	0
70	Abstract 17415: Mitochondrial Ca ²⁺ /Calmodulin-Dependent Kinase II Inhibition Changes the Calcium Homeostasis in the Endothelium and Decreases the Vascular Relaxation in Mesenteric Arteries. <i>Circulation</i> , 2020, 142, .	1.6	0
71	Targeted Nanoparticles to Mitigate Radiation-Induced Blood-Brain Barrier Disruption and Cognitive Impairment. <i>FASEB Journal</i> , 2022, 36, .	0.2	0
72	Abstract 119: Mitochondrial Redox Mechanisms Leading To Sustained Radiation-induced Endothelial Injury. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2021, 41, .	1.1	0