Alexander Ghanem

List of Publications by Year
in descending order

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87	4,938	101496	95218
papers	citations	36 h-index	68 g-index

89	89	89	7768
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Results from the â€œMe & My Heartâ€•(eMocial) Study: a Randomized Evaluation of a New Smartphone-Based Support Tool to Increase Therapy Adherence of Patients with Acute Coronary Syndrome. Cardiovascular Drugs and Therapy, 2022, , 1.	1.3	1
2	Selective plasticity of callosal neurons in the adult contralesional cortex following murine traumatic brain injury. Nature Communications, 2022, 13, 2659.	5.8	3
3	Mitochondria-Endoplasmic Reticulum Contacts in Reactive Astrocytes Promote Vascular Remodeling. Cell Metabolism, 2020, 31, 791-808.e8.	7.2	79
4	Cognitive Outcomes in Patients Undergoing Coronary Interventions and Transcatheter Aortic Valve Replacement. , 2020, , 237-251.		0
5	Cryo EM structure of the rabies virus ribonucleoprotein complex. Scientific Reports, 2019, 9, 9639.	1.6	21
6	Design and rationale for the â€œMe & My Heartâ€•(eMocial) study: A randomized evaluation of a new smartphoneâ€based support tool to increase therapy adherence of patients with acute coronary syndrome. Clinical Cardiology, 2019, 42, 1054-1062.	0.7	4
7	Neuron-specific-enolase as a predictor of the neurologic outcome after cardiopulmonary resuscitation in patients on ECMO. Resuscitation, 2019, 136, 14-20.	1.3	33
8	Treatment with mononuclear cell populations improves post-infarction cardiac function but does not reduce arrhythmia susceptibility. PLoS ONE, 2019, 14, e0208301.	1.1	1
9	Recommendations for extracorporeal cardiopulmonary resuscitation (eCPR): consensus statement of DGIIN, DGK, DGTHG, DGfK, DGNI, DGAI, DIVI and GRC. Clinical Research in Cardiology, 2019, 108, 455-464.	1.5	81
10	Neurocognition and Cerebral Lesion Burden in High-Risk Patients Before Undergoing Transcatheter Aortic Valve Replacement. JACC: Cardiovascular Interventions, 2018, 11, 384-392.	1.1	20
11	Virus stamping for targeted single-cell infection in vitro and in vivo. Nature Biotechnology, 2018, 36, 81-88.	9.4	39
12	Cerebral white matter lesion burden is associated with the degree of aortic valve calcification and predicts periâ€procedural cerebrovascular events in patients undergoing transcatheter aortic valve implantation (TAVI). Catheterization and Cardiovascular Interventions, 2018, 91, 774-782.	0.7	16
13	Cerebral Protection During Catheter Ablation of Ventricular Tachycardia in Patients With Ischemic Heart Disease. Journal of the American Heart Association, 2018, 7, .	1.6	19
14	Anatomical projections of the dorsomedial hypothalamus to the periaqueductal grey and their role in thermoregulation: a cautionary note. Physiological Reports, 2018, 6, e13807.	0.7	16
15	TNFÎ± drives mitochondrial stress in POMC neurons in obesity. Nature Communications, 2017, 8, 15143.	5.8	92
16	Neuronal LRP4 regulates synapse formation in the developing CNS. Development (Cambridge), 2017, 144, 4604-4615.	1.2	25
17	Identification of Two Classes of Somatosensory Neurons That Display Resistance to Retrograde Infection by Rabies Virus. Journal of Neuroscience, 2017, 37, 10358-10371.	1.7	43
18	Rationale of cerebral protection devices in left atrial appendage occlusion. Catheterization and Cardiovascular Interventions, 2017, 89, 154-158.	0.7	24

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19	Subacute Subclinical Brain Infarctions after Transcatheter Aortic Valve Implantation Negatively Impact Cognitive Function in Long-Term Follow-Up. PLoS ONE, 2017, 12, e0168852.	1.1	23
20	Metallothioneins 1 and 2 Modulate Inflammation and Support Remodeling in Ischemic Cardiomyopathy in Mice. Mediators of Inflammation, 2016, 2016, 1-13.	1.4	25
21	â€œShock and Go?â€•extracorporeal cardioâ€pulmonary resuscitation in the goldenâ€hour of ROSC. Catheterization and Cardiovascular Interventions, 2016, 88, 691-696.	0.7	37
22	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, .	1.6	51
23	Myelinosome formation represents an early stage of oligodendrocyte damage in multiple sclerosis and its animal model. Nature Communications, 2016, 7, 13275.	5.8	45
24	G gene-deficient single-round rabies viruses for neuronal circuit analysis. Virus Research, 2016, 216, 41-54.	1.1	36
25	Mechanisms And Prevention Of TAVI-Related Cerebrovascular Events. Current Pharmaceutical Design, 2016, 22, 1879-1887.	0.9	6
26	Prevalence and Impact of Sleep Disordered Breathing in Patients with Severe Aortic Stenosis. PLoS ONE, 2015, 10, e0133176.	1.1	17
27	Targeted Ablation, Silencing, and Activation Establish Glycinergic Dorsal Horn Neurons as Key Components of a Spinal Gate for Pain and Itch. Neuron, 2015, 85, 1289-1304.	3.8	299
28	Risk scores and biomarkers for the prediction of 1-year outcome after transcatheter aortic valve replacement. American Heart Journal, 2015, 170, 821-829.	1.2	43
29	Single-cellâ€“initiated monosynaptic tracing reveals layer-specific cortical network modules. Science, 2015, 349, 70-74.	6.0	212
30	Impact of left ventricular conduction defect with or without need for permanent right ventricular pacing on functional and clinical recovery after TAVR. Clinical Research in Cardiology, 2015, 104, 964-974.	1.5	27
31	Modeling autosomal recessive cutis laxa type 1C (ARCL1C) in mice reveals distinct functions of Ltbp-4 isoforms. DMM Disease Models and Mechanisms, 2015, 8, 403-15.	1.2	38
32	An anterograde rabies virus vector for high-resolution large-scale reconstruction of 3D neuron morphology. Brain Structure and Function, 2015, 220, 1369-1379.	1.2	30
33	Development of a risk score for outcome after transcatheter aortic valve implantation. Clinical Research in Cardiology, 2014, 103, 631-640.	1.5	92
34	Acute Changes of Mitral Valve Geometry During Interventional Edge-to-Edge Repair With the MitraClip System Are Associated With Midterm Outcomes in Patients With Functional Valve Disease. Circulation: Cardiovascular Interventions, 2014, 7, 390-399.	1.4	51
35	Three-dimensional imaging of the aortic valve geometry for prosthesis sizing prior to transcatheter aortic valve replacement. International Journal of Cardiology, 2014, 174, 844-849.	0.8	9
36	Cardiomyocyte specific peroxisome proliferator-activated receptor-Î± overexpression leads to irreversible damage in ischemic murine heart. Life Sciences, 2014, 102, 88-97.	2.0	31

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37	Doppler-based renal resistance index for the detection of acute kidney injury and the non-invasive evaluation of paravalvular aortic regurgitation after transcatheter aortic valve implantation. EuroIntervention, 2014, 9, 1309-1316.	1.4	22
38	The First Stage of Cardinal Direction Selectivity Is Localized to the Dendrites of Retinal Ganglion Cells. Neuron, 2013, 79, 1078-1085.	3.8	139
39	The revised EuroSCORE II for the prediction of mortality in patients undergoing transcatheter aortic valve implantation. Clinical Research in Cardiology, 2013, 102, 821-829.	1.5	47
40	Evaluation and Management of Paravalvular Aortic Regurgitation After Transcatheter Aortic Valve Replacement. Journal of the American College of Cardiology, 2013, 62, 11-20.	1.2	186
41	Inflammation-Induced Alteration of Astrocyte Mitochondrial Dynamics Requires Autophagy for Mitochondrial Network Maintenance. Cell Metabolism, 2013, 18, 844-859.	7.2	201
42	Retrograde monosynaptic tracing reveals the temporal evolution of inputs onto new neurons in the adult dentate gyrus and olfactory bulb. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E1152-61.	3.3	159
43	Novel approaches for prevention of stroke related to transcatheter aortic valve implantation. Expert Review of Cardiovascular Therapy, 2013, 11, 1311-1320.	0.6	8
44	Cognitive Trajectory After Transcatheter Aortic Valve Implantation. Circulation: Cardiovascular Interventions, 2013, 6, 615-624.	1.4	82
45	Embryonic Cardiomyocyte, but Not Autologous Stem Cell Transplantation, Restricts Infarct Expansion, Enhances Ventricular Function, and Improves Long-Term Survival. PLoS ONE, 2013, 8, e61510.	1.1	17
46	Ultrasound-Mediated Stimulation of Microbubbles after Acute Myocardial Infarction and Reperfusion Ameliorates Left-Ventricular Remodelling in Mice via Improvement of Borderzone Vascularization. PLoS ONE, 2013, 8, e56841.	1.1	10
47	Prognostic value of cerebral injury following transfemoral aortic valve implantation. EuroIntervention, 2013, 8, 1296-1306.	1.4	28
48	Transcatheter valve implantation improves central sleep apnoea in severe aortic stenosis. EuroIntervention, 2013, 9, 923-928.	1.4	10
49	Systemic inflammatory response syndrome predicts increased mortality in patients after transcatheter aortic valve implantation. European Heart Journal, 2012, 33, 1459-1468.	1.0	127
50	Catch me, if you can!. European Heart Journal, 2012, 33, 2763-2763.	1.0	1
51	Three-Dimensional Speckle-Tracking Analysis of Left Ventricular Function after Transcatheter Aortic Valve Implantation. Journal of the American Society of Echocardiography, 2012, 25, 827-834.e1.	1.2	51
52	Aortic Regurgitation Index Defines Severity of Peri-Prosthetic Regurgitation and Predicts Outcome in Patients After Transcatheter Aortic Valve Implantation. Journal of the American College of Cardiology, 2012, 59, 1134-1141.	1.2	371
53	An Exceptional Case of Frame Underexpansion With a Self-Expandable Transcatheter Heart Valve Despite Predilation. JACC: Cardiovascular Interventions, 2012, 5, 1288-1289.	1.1	14
54	Significantly improved rescue of rabies virus from cDNA plasmids. European Journal of Cell Biology, 2012, 91, 10-16.	1.6	63

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55	First-in-man use of a novel embolic protection device for patients undergoing transcatheter aortic valve implantation. EuroIntervention, 2012, 8, 43-50.	1.4	125
56	Transcatheter aortic valve implantation and closure of the left atrial appendage under cerebral protection. EuroIntervention, 2012, 8, 640-641.	1.4	4
57	Prognostic value of cerebral injury following transfemoral aortic valve implantation. EuroIntervention, 2012, , .	1.4	1
58	Critical role of nucleotide-binding oligomerization domain-like receptor 3 in vascular repair. Biochemical and Biophysical Research Communications, 2011, 411, 627-631.	1.0	6
59	Inhibition of leukotriene C4 action reduces oxidative stress and apoptosis in cardiomyocytes and impedes remodeling after myocardial injury. Journal of Molecular and Cellular Cardiology, 2011, 50, 570-577.	0.9	36
60	Transforming Growth Factor Î²1 Oppositely Regulates the Hypertrophic and Contractile Response to Î²-Adrenergic Stimulation in the Heart. PLoS ONE, 2011, 6, e26628.	1.1	44
61	Cardiomyoplasty Improves Contractile Reserve after Myocardial Injury in Mice: Functional and Morphological Investigations with Reconstructive Three-Dimensional Echocardiography. Cell Transplantation, 2011, 20, 1621-1628.	1.2	5
62	Targeted Ultrasound-Mediated Delivery of Nanoparticles: On the Development of a New HIFU-Based Therapy and Imaging Device. IEEE Transactions on Biomedical Engineering, 2010, 57, 61-70.	2.5	54
63	Renal Function as Predictor of Mortality in Patients After Percutaneous Transcatheter Aortic Valve Implantation. JACC: Cardiovascular Interventions, 2010, 3, 1141-1149.	1.1	260
64	Risk and Fate of Cerebral Embolism After Transfemoral Aortic Valve Implantation. Journal of the American College of Cardiology, 2010, 55, 1427-1432.	1.2	313
65	Ultrasound mediated gene silencing with short-hairpin RNA. , 2009, , .		0
66	Lack of gelsolin promotes perpetuation of atrial fibrillation in the mouse heart. Journal of Interventional Cardiac Electrophysiology, 2009, 26, 3-10.	0.6	7
67	Normal impulse propagation in the atrioventricular conduction system of Cx30.2/Cx40 double deficient mice. Journal of Molecular and Cellular Cardiology, 2009, 46, 644-652.	0.9	26
68	Focused ultrasound-induced stimulation of microbubbles augments site-targeted engraftment of mesenchymal stem cells after acute myocardial infarction. Journal of Molecular and Cellular Cardiology, 2009, 47, 411-418.	0.9	69
69	Impact of previous myocardial infarction on the incremental value of myocardial contrast to two-dimensional supine bicycle stress echocardiography in evaluation of coronary artery disease. International Journal of Cardiology, 2009, 136, 47-55.	0.8	4
70	Myocardial Contrast Echocardiography Enhances Long-Term Prognostic Value of Supine Bicycle Stress Two-Dimensional Echocardiography. Journal of the American Society of Echocardiography, 2009, 22, 1220-1227.	1.2	20
71	Functional Impact of Targeted Closed-Chest Transplantation of Bone Marrow Cells in Rats with Acute Myocardial Ischemia/Reperfusion Injury. Cell Transplantation, 2009, 18, 1289-1297.	1.2	11
72	Quantitation of Myocardial Borderzone Using Reconstructive 3-D Echocardiography After Chronic Infarction in Ratsâ€"Incremental Value of Low-Dose Dobutamine. Ultrasound in Medicine and Biology, 2008, 34, 559-566.	0.7	16

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73	Survivin Determines Cardiac Function by Controlling Total Cardiomyocyte Number. Circulation, 2008, 117, 1583-1593.	1.6	105
74	Peptide-Mediated Interference with Influenza A Virus Polymerase. Journal of Virology, 2007, 81, 7801-7804.	1.5	119
75	Replacement of connexin43 by connexin26 in transgenic mice leads to dysfunctional reproductive organs and slowed ventricular conduction in the heart. BMC Developmental Biology, 2007, 7, 26.	2.1	54
76	Toll-like receptor 4 deficiency: Smaller infarcts, but nogain in function. BMC Physiology, 2007, 7, 5.	3.6	65
77	Triggered Replenishment Imaging Reduces Variability of Quantitative Myocardial Contrast Echocardiography and Allows Assessment of Myocardial Blood Flow Reserve. Echocardiography, 2007, 24, 149-158.	0.3	8
78	Real Time Myocardial Contrast Echocardiography During Supine Bicycle Stress and Continuous Infusion of Contrast Agent. Cutoff Values for Myocardial Contrast Replenishment Discriminating Abnormal Myocardial Perfusion. Echocardiography, 2007, 24, 638-648.	0.3	11
79	Cardiac morphogenetic defects and conduction abnormalities in mice homozygously deficient for connexin40 and heterozygously deficient for connexin45. Journal of Molecular and Cellular Cardiology, 2006, 41, 787-797.	0.9	26
80	Echocardiographic Assessment of Left Ventricular Mass in Neonatal and Adult Mice: Accuracy of Different Echocardiographic Methods. Echocardiography, 2006, 23, 900-907.	0.3	39
81	Connexin31 cannot functionally replace connexin43 during cardiac morphogenesis in mice. Journal of Cell Science, 2006, 119, 693-701.	1.2	31
82	Connexin30.2 containing gap junction channels decelerate impulse propagation through the atrioventricular node. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 5959-5964.	3.3	108
83	Defective Epidermal Barrier in Neonatal Mice Lacking the C-Terminal Region of Connexin43. Molecular Biology of the Cell, 2004, 15, 4597-4608.	0.9	132
84	In vitro and in vivo studies on continuous echo-contrast application strategies using SonoVue in a newly developed rotating pump setup. Ultrasound in Medicine and Biology, 2004, 30, 1145-1151.	0.7	19
85	Increasing myocardial contraction and blood pressure in C57BL/6 mice during early postnatal development. American Journal of Physiology - Heart and Circulatory Physiology, 2003, 284, H464-H474.	1.5	61
86	The impact of emission power on the destruction of echo contrast agents and on the origin of tissue harmonic signals using power pulse-inversion imaging. Ultrasound in Medicine and Biology, 2001, 27, 1525-1533.	0.7	28
87	Subendocardial Steal Effect Seen with Real-Time Perfusion Imaging at Low Emission Power during Adenosine Stress: Replenishment M-Mode Processing Allows Visualization of Vertical Steal. Echocardiography, 2001, 18, 689-694.	0.3	4