

Alexander Ghanem

List of Publications by Year in descending order

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87
papers

4,938
citations

101496

36
h-index

95218

68
g-index

89
all docs

89
docs citations

89
times ranked

7768
citing authors

#	ARTICLE	IF	CITATIONS
1	Aortic Regurgitation Index Defines Severity of Peri-Prosthetic Regurgitation and Predicts Outcome in Patients After Transcatheter Aortic Valve Implantation. <i>Journal of the American College of Cardiology</i> , 2012, 59, 1134-1141.	1.2	371
2	Risk and Fate of Cerebral Embolism After Transfemoral Aortic Valve Implantation. <i>Journal of the American College of Cardiology</i> , 2010, 55, 1427-1432.	1.2	313
3	Targeted Ablation, Silencing, and Activation Establish Glycinergic Dorsal Horn Neurons as Key Components of a Spinal Gate for Pain and Itch. <i>Neuron</i> , 2015, 85, 1289-1304.	3.8	299
4	Renal Function as Predictor of Mortality in Patients After Percutaneous Transcatheter Aortic Valve Implantation. <i>JACC: Cardiovascular Interventions</i> , 2010, 3, 1141-1149.	1.1	260
5	Single-cell-initiated monosynaptic tracing reveals layer-specific cortical network modules. <i>Science</i> , 2015, 349, 70-74.	6.0	212
6	Inflammation-Induced Alteration of Astrocyte Mitochondrial Dynamics Requires Autophagy for Mitochondrial Network Maintenance. <i>Cell Metabolism</i> , 2013, 18, 844-859.	7.2	201
7	Evaluation and Management of Paravalvular Aortic Regurgitation After Transcatheter Aortic Valve Replacement. <i>Journal of the American College of Cardiology</i> , 2013, 62, 11-20.	1.2	186
8	Retrograde monosynaptic tracing reveals the temporal evolution of inputs onto new neurons in the adult dentate gyrus and olfactory bulb. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, E1152-61.	3.3	159
9	The First Stage of Cardinal Direction Selectivity Is Localized to the Dendrites of Retinal Ganglion Cells. <i>Neuron</i> , 2013, 79, 1078-1085.	3.8	139
10	Defective Epidermal Barrier in Neonatal Mice Lacking the C-Terminal Region of Connexin43. <i>Molecular Biology of the Cell</i> , 2004, 15, 4597-4608.	0.9	132
11	Systemic inflammatory response syndrome predicts increased mortality in patients after transcatheter aortic valve implantation. <i>European Heart Journal</i> , 2012, 33, 1459-1468.	1.0	127
12	First-in-man use of a novel embolic protection device for patients undergoing transcatheter aortic valve implantation. <i>EuroIntervention</i> , 2012, 8, 43-50.	1.4	125
13	Peptide-Mediated Interference with Influenza A Virus Polymerase. <i>Journal of Virology</i> , 2007, 81, 7801-7804.	1.5	119
14	Connexin30.2 containing gap junction channels decelerate impulse propagation through the atrioventricular node. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 5959-5964.	3.3	108
15	Survivin Determines Cardiac Function by Controlling Total Cardiomyocyte Number. <i>Circulation</i> , 2008, 117, 1583-1593.	1.6	105
16	Development of a risk score for outcome after transcatheter aortic valve implantation. <i>Clinical Research in Cardiology</i> , 2014, 103, 631-640.	1.5	92
17	TNF \pm drives mitochondrial stress in POMC neurons in obesity. <i>Nature Communications</i> , 2017, 8, 15143.	5.8	92
18	Cognitive Trajectory After Transcatheter Aortic Valve Implantation. <i>Circulation: Cardiovascular Interventions</i> , 2013, 6, 615-624.	1.4	82

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19	Recommendations for extracorporeal cardiopulmonary resuscitation (eCPR): consensus statement of DGIIN, DGK, DGTHC, DGfK, DGNI, DGAI, DIVI and GRC. <i>Clinical Research in Cardiology</i> , 2019, 108, 455-464.	1.5	81
20	Mitochondria-Endoplasmic Reticulum Contacts in Reactive Astrocytes Promote Vascular Remodeling. <i>Cell Metabolism</i> , 2020, 31, 791-808.e8.	7.2	79
21	Focused ultrasound-induced stimulation of microbubbles augments site-targeted engraftment of mesenchymal stem cells after acute myocardial infarction. <i>Journal of Molecular and Cellular Cardiology</i> , 2009, 47, 411-418.	0.9	69
22	Toll-like receptor 4 deficiency: Smaller infarcts, but no gain in function. <i>BMC Physiology</i> , 2007, 7, 5.	3.6	65
23	Significantly improved rescue of rabies virus from cDNA plasmids. <i>European Journal of Cell Biology</i> , 2012, 91, 10-16.	1.6	63
24	Increasing myocardial contraction and blood pressure in C57BL/6 mice during early postnatal development. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2003, 284, H464-H474.	1.5	61
25	Replacement of connexin43 by connexin26 in transgenic mice leads to dysfunctional reproductive organs and slowed ventricular conduction in the heart. <i>BMC Developmental Biology</i> , 2007, 7, 26.	2.1	54
26	Targeted Ultrasound-Mediated Delivery of Nanoparticles: On the Development of a New HIFU-Based Therapy and Imaging Device. <i>IEEE Transactions on Biomedical Engineering</i> , 2010, 57, 61-70.	2.5	54
27	Three-Dimensional Speckle-Tracking Analysis of Left Ventricular Function after Transcatheter Aortic Valve Implantation. <i>Journal of the American Society of Echocardiography</i> , 2012, 25, 827-834.e1.	1.2	51
28	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. <i>Circulation: Cardiovascular Interventions</i> , 2014, 7, 390-399.	1.4	51
29	Sphingosine 1-Phosphate Receptor 1 Regulates Cardiac Function by Modulating Ca ²⁺ Sensitivity and Na ⁺ /H ⁺ Exchange and Mediates Protection by Ischemic Preconditioning. <i>Journal of the American Heart Association</i> , 2016, 5, .	1.6	51
30	The revised EuroSCORE II for the prediction of mortality in patients undergoing transcatheter aortic valve implantation. <i>Clinical Research in Cardiology</i> , 2013, 102, 821-829.	1.5	47
31	Myelinosome formation represents an early stage of oligodendrocyte damage in multiple sclerosis and its animal model. <i>Nature Communications</i> , 2016, 7, 13275.	5.8	45
32	Transforming Growth Factor β 21 Oppositely Regulates the Hypertrophic and Contractile Response to β 2-Adrenergic Stimulation in the Heart. <i>PLoS ONE</i> , 2011, 6, e26628.	1.1	44
33	Risk scores and biomarkers for the prediction of 1-year outcome after transcatheter aortic valve replacement. <i>American Heart Journal</i> , 2015, 170, 821-829.	1.2	43
34	Identification of Two Classes of Somatosensory Neurons That Display Resistance to Retrograde Infection by Rabies Virus. <i>Journal of Neuroscience</i> , 2017, 37, 10358-10371.	1.7	43
35	Echocardiographic Assessment of Left Ventricular Mass in Neonatal and Adult Mice: Accuracy of Different Echocardiographic Methods. <i>Echocardiography</i> , 2006, 23, 900-907.	0.3	39
36	Virus stamping for targeted single-cell infection in vitro and in vivo. <i>Nature Biotechnology</i> , 2018, 36, 81-88.	9.4	39

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37	Modeling autosomal recessive cutis laxa type 1C (ARCL1C) in mice reveals distinct functions of Ltbp-4 isoforms. <i>DMM Disease Models and Mechanisms</i> , 2015, 8, 403-15.	1.2	38
38	Shock and Go?â€•extracorporeal cardioâ€•pulmonary resuscitation in the goldenâ€•hour of ROSC. <i>Catheterization and Cardiovascular Interventions</i> , 2016, 88, 691-696.	0.7	37
39	Inhibition of leukotriene C4 action reduces oxidative stress and apoptosis in cardiomyocytes and impedes remodeling after myocardial injury. <i>Journal of Molecular and Cellular Cardiology</i> , 2011, 50, 570-577.	0.9	36
40	G gene-deficient single-round rabies viruses for neuronal circuit analysis. <i>Virus Research</i> , 2016, 216, 41-54.	1.1	36
41	Neuron-specific-enolase as a predictor of the neurologic outcome after cardiopulmonary resuscitation in patients on ECMO. <i>Resuscitation</i> , 2019, 136, 14-20.	1.3	33
42	Connexin31 cannot functionally replace connexin43 during cardiac morphogenesis in mice. <i>Journal of Cell Science</i> , 2006, 119, 693-701.	1.2	31
43	Cardiomyocyte specific peroxisome proliferator-activated receptor-Î± overexpression leads to irreversible damage in ischemic murine heart. <i>Life Sciences</i> , 2014, 102, 88-97.	2.0	31
44	An anterograde rabies virus vector for high-resolution large-scale reconstruction of 3D neuron morphology. <i>Brain Structure and Function</i> , 2015, 220, 1369-1379.	1.2	30
45	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. <i>Ultrasound in Medicine and Biology</i> , 2001, 27, 1525-1533.	0.7	28
46	Prognostic value of cerebral injury following transfemoral aortic valve implantation. <i>EuroIntervention</i> , 2013, 8, 1296-1306.	1.4	28
47	Impact of left ventricular conduction defect with or without need for permanent right ventricular pacing on functional and clinical recovery after TAVR. <i>Clinical Research in Cardiology</i> , 2015, 104, 964-974.	1.5	27
48	Cardiac morphogenetic defects and conduction abnormalities in mice homozygously deficient for connexin40 and heterozygously deficient for connexin45. <i>Journal of Molecular and Cellular Cardiology</i> , 2006, 41, 787-797.	0.9	26
49	Normal impulse propagation in the atrioventricular conduction system of Cx30.2/Cx40 double deficient mice. <i>Journal of Molecular and Cellular Cardiology</i> , 2009, 46, 644-652.	0.9	26
50	Metallothioneins 1 and 2 Modulate Inflammation and Support Remodeling in Ischemic Cardiomyopathy in Mice. <i>Mediators of Inflammation</i> , 2016, 2016, 1-13.	1.4	25
51	Neuronal LRP4 regulates synapse formation in the developing CNS. <i>Development (Cambridge)</i> , 2017, 144, 4604-4615.	1.2	25
52	Rationale of cerebral protection devices in left atrial appendage occlusion. <i>Catheterization and Cardiovascular Interventions</i> , 2017, 89, 154-158.	0.7	24
53	Subacute Subclinical Brain Infarctions after Transcatheter Aortic Valve Implantation Negatively Impact Cognitive Function in Long-Term Follow-Up. <i>PLoS ONE</i> , 2017, 12, e0168852.	1.1	23
54	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. <i>EuroIntervention</i> , 2014, 9, 1309-1316.	1.4	22

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55	Cryo EM structure of the rabies virus ribonucleoprotein complex. <i>Scientific Reports</i> , 2019, 9, 9639.	1.6	21
56	Myocardial Contrast Echocardiography Enhances Long-Term Prognostic Value of Supine Bicycle Stress Two-Dimensional Echocardiography. <i>Journal of the American Society of Echocardiography</i> , 2009, 22, 1220-1227.	1.2	20
57	Neurocognition and Cerebral Lesion Burden in High-Risk Patients Before Undergoing Transcatheter Aortic Valve Replacement. <i>JACC: Cardiovascular Interventions</i> , 2018, 11, 384-392.	1.1	20
58	In vitro and in vivo studies on continuous echo-contrast application strategies using SonoVue in a newly developed rotating pump setup. <i>Ultrasound in Medicine and Biology</i> , 2004, 30, 1145-1151.	0.7	19
59	Cerebral Protection During Catheter Ablation of Ventricular Tachycardia in Patients With Ischemic Heart Disease. <i>Journal of the American Heart Association</i> , 2018, 7, .	1.6	19
60	Embryonic Cardiomyocyte, but Not Autologous Stem Cell Transplantation, Restricts Infarct Expansion, Enhances Ventricular Function, and Improves Long-Term Survival. <i>PLoS ONE</i> , 2013, 8, e61510.	1.1	17
61	Prevalence and Impact of Sleep Disordered Breathing in Patients with Severe Aortic Stenosis. <i>PLoS ONE</i> , 2015, 10, e0133176.	1.1	17
62	Quantitation of Myocardial Borderzone Using Reconstructive 3-D Echocardiography After Chronic Infarction in Rats—Incremental Value of Low-Dose Dobutamine. <i>Ultrasound in Medicine and Biology</i> , 2008, 34, 559-566.	0.7	16
63	Cerebral white matter lesion burden is associated with the degree of aortic valve calcification and predicts periprocedural cerebrovascular events in patients undergoing transcatheter aortic valve implantation (TAVI). <i>Catheterization and Cardiovascular Interventions</i> , 2018, 91, 774-782.	0.7	16
64	Anatomical projections of the dorsomedial hypothalamus to the periaqueductal grey and their role in thermoregulation: a cautionary note. <i>Physiological Reports</i> , 2018, 6, e13807.	0.7	16
65	An Exceptional Case of Frame Underexpansion With a Self-Expandable Transcatheter Heart Valve Despite Predilation. <i>JACC: Cardiovascular Interventions</i> , 2012, 5, 1288-1289.	1.1	14
66	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. <i>Echocardiography</i> , 2007, 24, 638-648.	0.3	11
67	Functional Impact of Targeted Closed-Chest Transplantation of Bone Marrow Cells in Rats with Acute Myocardial Ischemia/Reperfusion Injury. <i>Cell Transplantation</i> , 2009, 18, 1289-1297.	1.2	11
68	Ultrasound-Mediated Stimulation of Microbubbles after Acute Myocardial Infarction and Reperfusion Ameliorates Left-Ventricular Remodelling in Mice via Improvement of Borderzone Vascularization. <i>PLoS ONE</i> , 2013, 8, e56841.	1.1	10
69	Transcatheter valve implantation improves central sleep apnoea in severe aortic stenosis. <i>EuroIntervention</i> , 2013, 9, 923-928.	1.4	10
70	Three-dimensional imaging of the aortic valve geometry for prosthesis sizing prior to transcatheter aortic valve replacement. <i>International Journal of Cardiology</i> , 2014, 174, 844-849.	0.8	9
71	Triggered Replenishment Imaging Reduces Variability of Quantitative Myocardial Contrast Echocardiography and Allows Assessment of Myocardial Blood Flow Reserve. <i>Echocardiography</i> , 2007, 24, 149-158.	0.3	8
72	Novel approaches for prevention of stroke related to transcatheter aortic valve implantation. <i>Expert Review of Cardiovascular Therapy</i> , 2013, 11, 1311-1320.	0.6	8

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73	Lack of gelsolin promotes perpetuation of atrial fibrillation in the mouse heart. <i>Journal of Interventional Cardiac Electrophysiology</i> , 2009, 26, 3-10.	0.6	7
74	Critical role of nucleotide-binding oligomerization domain-like receptor 3 in vascular repair. <i>Biochemical and Biophysical Research Communications</i> , 2011, 411, 627-631.	1.0	6
75	Mechanisms And Prevention Of TAVI-Related Cerebrovascular Events. <i>Current Pharmaceutical Design</i> , 2016, 22, 1879-1887.	0.9	6
76	Cardiomyoplasty Improves Contractile Reserve after Myocardial Injury in Mice: Functional and Morphological Investigations with Reconstructive Three-Dimensional Echocardiography. <i>Cell Transplantation</i> , 2011, 20, 1621-1628.	1.2	5
77	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. <i>Echocardiography</i> , 2001, 18, 689-694.	0.3	4
78	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. <i>International Journal of Cardiology</i> , 2009, 136, 47-55.	0.8	4
79	Design and rationale for the "Me & My Heart" (eMocial) study: A randomized evaluation of a new smartphone-based support tool to increase therapy adherence of patients with acute coronary syndrome. <i>Clinical Cardiology</i> , 2019, 42, 1054-1062.	0.7	4
80	Transcatheter aortic valve implantation and closure of the left atrial appendage under cerebral protection. <i>EuroIntervention</i> , 2012, 8, 640-641.	1.4	4
81	Selective plasticity of callosal neurons in the adult contralesional cortex following murine traumatic brain injury. <i>Nature Communications</i> , 2022, 13, 2659.	5.8	3
82	Catch me, if you can!. <i>European Heart Journal</i> , 2012, 33, 2763-2763.	1.0	1
83	Treatment with mononuclear cell populations improves post-infarction cardiac function but does not reduce arrhythmia susceptibility. <i>PLoS ONE</i> , 2019, 14, e0208301.	1.1	1
84	Prognostic value of cerebral injury following transfemoral aortic valve implantation. <i>EuroIntervention</i> , 2012, , .	1.4	1
85	Results from the "Me & My Heart" (eMocial) Study: a Randomized Evaluation of a New Smartphone-Based Support Tool to Increase Therapy Adherence of Patients with Acute Coronary Syndrome. <i>Cardiovascular Drugs and Therapy</i> , 2022, , 1.	1.3	1
86	Ultrasound mediated gene silencing with short-hairpin RNA. , 2009, , .		0
87	Cognitive Outcomes in Patients Undergoing Coronary Interventions and Transcatheter Aortic Valve Replacement. , 2020, , 237-251.		0