## Bruno Karl Podesser

List of Publications by Year in descending order

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Version: 2024-02-01

120 papers 2,374 citations

249298 26 h-index 312153 41 g-index

123 all docs

123 docs citations

times ranked

123

3837 citing authors

#	Article	IF	CITATIONS
1	A new player in the game: treatment with antagomiR-21a-5p significantly attenuates histological and echocardiographic effects of experimental autoimmune myocarditis. Cardiovascular Research, 2022, 118, 556-572.	1.8	14
2	Experimental nerve transfer model in the neonatal rat. Neural Regeneration Research, 2022, 17, 1088.	1.6	2
3	Distinct structural and dynamic components of portal hypertension in different animal models and human liver disease etiologies. Hepatology, 2022, 75, 610-622.	3.6	18
4	Reverse remodeling in diabetic cardiomyopathy: the role of extracellular matrix. Minerva Cardiology and Angiology, 2022, 70, .	0.4	3
5	The expression and role of tenascin C in abdominal aortic aneurysm formation and progression. Interactive Cardiovascular and Thoracic Surgery, 2022, , .	0.5	1
6	Ethanol reduces the minimum alveolar concentration of sevoflurane in rats. Scientific Reports, 2022, 12, 280.	1.6	1
7	Editorial comments on †Effects of ischaemic postconditioning in aortic valve replacement: a multicenter randomized controlled trial'. European Journal of Cardio-thoracic Surgery, 2022, , .	0.6	1
8	Relationship between plasma Neuregulin-1 and cardiac function in patients with ST-elevation myocardial infarction. Reviews in Cardiovascular Medicine, 2022, 23, 063.	0.5	5
9	The Technological Basis of a Balloon-Expandable TAVR System: Non-occlusive Deployment, Anchorage in the Absence of Calcification and Polymer Leaflets. Frontiers in Cardiovascular Medicine, 2022, 9, 791949.	1.1	9
10	Transient cardioprotective effects of remote ischemic postconditioning on non-reperfused myocardial infarction: longitudinal evaluation study in pigs. International Journal of Cardiology, 2022, 355, 37-43.	0.8	2
11	Chorion-derived extracellular matrix hydrogel and fibronectin surface coatings show similar beneficial effects on endothelialization of expanded polytetrafluorethylene vascular grafts. Materials Today Bio, 2022, 14, 100262.	2.6	6
12	The Role of Telocytes and Telocyte-Derived Exosomes in the Development of Thoracic Aortic Aneurysm. International Journal of Molecular Sciences, 2022, 23, 4730.	1.8	9
13	Single Donor Infusion of S-Nitroso-Human-Serum-Albumin Attenuates Cardiac Isograft Fibrosis and Preserves Myocardial Micro-RNA-126-3p in a Murine Heterotopic Heart Transplant Model. Transplant International, 2022, 35, 10057.	0.8	1
14	Normothermic blood polarizing versus depolarizing cardioplegia in a porcine model of cardiopulmonary bypass. Interactive Cardiovascular and Thoracic Surgery, 2022, 35, .	0.5	1
15	Large and Small Animal Models of Heart Failure With Reduced Ejection Fraction. Circulation Research, 2022, 130, 1888-1905.	2.0	25
16	Pharmacologic modulation of intracellular Na <sup>+</sup> concentration with ranolazine impacts inflammatory response in humans and mice. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	3
17	Cardiovascular phenotype of the <i>Dmdmdx</i> rat – a suitable animal model for Duchenne muscular dystrophy. DMM Disease Models and Mechanisms, 2021, 14, .	1.2	17
18	The Role of Tenascin C in Cardiac Reverse Remodeling Following Banding–Debanding of the Ascending Aorta. International Journal of Molecular Sciences, 2021, 22, 2023.	1.8	10

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19	No functional TRPA1 in cardiomyocytes. Acta Physiologica, 2021, 232, e13659.	1.8	10
20	Avian extremity reconstruction via osseointegrated leg-prosthesis for intuitive embodiment. Scientific Reports, 2021, 11, 12360.	1.6	0
21	S-nitroso human serum albumin as a nitric oxide donor in drug-eluting vascular grafts: Biofunctionality and preclinical evaluation. Acta Biomaterialia, 2021, 134, 276-288.	4.1	13
22	MiRNA Let-7a and Let-7d Are Induced by Globotriaosylceramide via NF-kB Activation in Fabry Disease. Genes, 2021, 12, 1184.	1.0	3
23	Pharmacological inhibition of fatty acid oxidation reduces atherosclerosis progression by suppression of macrophage NLRP3 inflammasome activation. Biochemical Pharmacology, 2021, 190, 114634.	2.0	11
24	Remote Ischemic Perconditioning Ameliorates Myocardial Ischemia and Reperfusion-Induced Coronary Endothelial Dysfunction and Aortic Stiffness in Rats. Journal of Cardiovascular Pharmacology and Therapeutics, 2021, 26, 702-713.	1.0	6
25	Alterations in ACE and ACE2 Activities and Cardiomyocyte Signaling Underlie Improved Myocardial Function in a Rat Model of Repeated Remote Ischemic Conditioning. International Journal of Molecular Sciences, 2021, 22, 11064.	1.8	0
26	Remote ischaemic conditioning for myocardial infarction or elective PCI: systematic review and meta-analyses of randomised trials. European Heart Journal: Acute Cardiovascular Care, 2020, 9, 82-92.	0.4	10
27	Long Term Evaluation of Nanofibrous, Bioabsorbable Polycarbonate Urethane Grafts for Small Diameter Vessel Replacement in Rodents. European Journal of Vascular and Endovascular Surgery, 2020, 59, 643-652.	0.8	25
28	Histone deacetylase 1 (HDAC1): A key player of T cell-mediated arthritis. Journal of Autoimmunity, 2020, 108, 102379.	3.0	31
29	Neuronal nitric oxide synthase regulation of calcium cycling in ventricular cardiomyocytes is independent of Cav1.2 channel modulation under basal conditions. Pflugers Archiv European Journal of Physiology, 2020, 472, 61-74.	1.3	5
30	Simulating Surgical Skills in Animals: Systematic Review, Costs & Dr. Acceptance Analyses. Frontiers in Veterinary Science, 2020, 7, 570852.	0.9	23
31	Riboflavin-mediated photooxidation to improve the characteristics of decellularized human arterial small diameter vascular grafts. Acta Biomaterialia, 2020, 116, 246-258.	4.1	19
32	"The use of animals in research will …. be necessary to help drive scientific discovery in―(cardiac) Tj ETQq	0 0 0 rgBT 0.4	Overlock 10
33	Assessment of a long-term in vitro model to characterize the mechanical behavior and macrophage-mediated degradation of a novel, degradable, electrospun poly-urethane vascular graft. Journal of the Mechanical Behavior of Biomedical Materials, 2020, 112, 104077.	1.5	9
34	Changes in Circulating Extracellular Vesicles in Patients with ST-Elevation Myocardial Infarction and Potential Effects of Remote Ischemic Conditioningâ€"A Randomized Controlled Trial. Biomedicines, 2020, 8, 218.	1.4	12
35	Soluble guanylyl cyclase stimulation and phosphodiesteraseâ€5Âinhibition improve portal hypertension and reduce liver fibrosis in bile duct–ligated rats. United European Gastroenterology Journal, 2020, 8, 1174-1185.	1.6	20
36	Tenascin C promotes valvular remodeling in two large animal models of ischemic mitral regurgitation. Basic Research in Cardiology, 2020, 115, 76.	2.5	8

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37	Reduced Na <sup>+</sup> current in Purkinje fibers explains cardiac conduction defects and arrhythmias in Duchenne muscular dystrophy. American Journal of Physiology - Heart and Circulatory Physiology, 2020, 318, H1436-H1440.	1.5	6
38	Semi-Minimal Invasive Method to Induce Myocardial Infarction in Rats and the Assessment of Cardiac Function by an Isolated Working Heart System. Journal of Visualized Experiments, 2020, , .	0.2	2
39	Tenascinâ€C aggravates ventricular dilatation and angiotensinâ€converting enzyme activity after myocardial infarction in mice. ESC Heart Failure, 2020, 7, 2113-2122.	1.4	17
40	Anti-CD3 Antibody Treatment Reduces Scar Formation in a Rat Model of Myocardial Infarction. Cells, 2020, 9, 295.	1.8	10
41	MicroRNA Expression Profile Changes after Cardiopulmonary Bypass and Ischemia/Reperfusion-Injury in a Porcine Model of Cardioplegic Arrest. Diagnostics, 2020, 10, 240.	1.3	9
42	Implantability of a novel, pre-assembled aortic valved conduit with RESILIAâ,,¢ tissue. Journal of Cardiovascular Surgery, 2020, 61, 376-379.	0.3	1
43	A novel percutaneous closed chest swine model of ischaemic mitral regurgitation guided by contrast echocardiography. EuroIntervention, 2020, 16, e518-e522.	1.4	2
44	Current Directions in the Auricular Vagus Nerve Stimulation I – A Physiological Perspective. Frontiers in Neuroscience, 2019, 13, 854.	1.4	166
45	Current Directions in the Auricular Vagus Nerve Stimulation II $\hat{a} \in \text{``An Engineering Perspective.}$ Frontiers in Neuroscience, 2019, 13, 772.	1.4	85
46	MicroRNA-155 Controls T Helper Cell Activation During Viral Infection. Frontiers in Immunology, 2019, 10, 1367.	2.2	24
47	MiR-21, MiR-29a, GATA4, and MEF2c Expression Changes in Endothelin-1 and Angiotensin II Cardiac Hypertrophy Stimulated Isl-1+Sca-1+c-kit+ Porcine Cardiac Progenitor Cells In Vitro. Cells, 2019, 8, 1416.	1.8	9
48	Response to letter on "The role of remote ischemic perconditioning beyond myocardial infarction size reduction― International Journal of Cardiology, 2019, 293, 53.	0.8	0
49	St Thomas' Hospital polarizing blood cardioplegia improves hemodynamic recovery in a porcine model of cardiopulmonary bypass. Journal of Thoracic and Cardiovascular Surgery, 2019, 158, 1543-1554.e8.	0.4	11
50	Biofabrication of a vascularized islet organ for type 1 diabetes. Biomaterials, 2019, 199, 40-51.	5.7	59
51	Response to letter on "Post-translational modifications: Novel mechanism to clarify the cardioprotective effects of remote ischemic conditioning by Tang and Yang― International Journal of Cardiology, 2019, 293, 51.	0.8	0
52	Multimodal [18F]FDG PET/CT Is a Direct Readout for Inflammatory Bone Repair: A Longitudinal Study in TNFα Transgenic Mice. Journal of Bone and Mineral Research, 2019, 34, 1632-1645.	3.1	8
53	Cardioprotection by PEDF: A novel form of GLUT4 membrane translocation to reduce myocardial ischemic injury. International Journal of Cardiology, 2019, 288, 119-120.	0.8	0
54	Regenerative Cardiovascular Therapies: Stem Cells and Beyond. International Journal of Molecular Sciences, 2019, 20, 1420.	1.8	41

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55	Remote ischemic perconditioning attenuates adverse cardiac remodeling and preserves left ventricular function in a rat model of reperfused myocardial infarction. International Journal of Cardiology, 2019, 285, 72-79.	0.8	33
56	The impact of age on cardiac function and extracellular matrix component expression in adverse post-infarction remodeling in mice. Experimental Gerontology, 2019, 119, 193-202.	1.2	7
57	Epigenetic modulation of tenascin C in the heart. Journal of Hypertension, 2019, 37, 1861-1870.	0.3	19
58	Experimental Testing of Bionic Peripheral Nerve and Muscle Interfaces: Animal Model Considerations. Frontiers in Neuroscience, 2019, 13, 1442.	1.4	9
59	One-year outcomes after rapid-deployment aortic valve replacement. Journal of Thoracic and Cardiovascular Surgery, 2018, 155, 575-585.	0.4	19
60	Tenascin-C promotes chronic pressure overload-induced cardiac dysfunction, hypertrophy and myocardial fibrosis. Journal of Hypertension, 2018, 36, 847-856.	0.3	39
61	Restricted working hours in Austrian residency programs. Wiener Klinische Wochenschrift, 2018, 130, 404-407.	1.0	5
62	Argon preconditioning enhances postischaemic cardiac functional recovery following cardioplegic arrest and global cold ischaemiaâ€. European Journal of Cardio-thoracic Surgery, 2018, 54, 539-546.	0.6	8
63	Low-dose of relaxin protects against arrhythmias and adverse left ventricle remodeling. International Journal of Cardiology, 2018, 250, 60-61.	0.8	0
64	Pretreatment With Argon Protects Human Cardiac Myocyte-Like Progenitor Cells from Oxygen Glucose Deprivation-Induced Cell Death by Activation of AKT and Differential Regulation of Mapkinases. Shock, 2018, 49, 556-563.	1.0	11
65	Non-classical monocytes as mediators of tissue destruction in arthritis. Annals of the Rheumatic Diseases, 2018, 77, 1490-1497.	0.5	65
66	The soluble guanylate cyclase stimulator riociguat reduces fibrogenesis and portal pressure in cirrhotic rats. Scientific Reports, 2018, 8, 9372.	1.6	39
67	Invasive Hemodynamic Characterization of the Portal-hypertensive Syndrome in Cirrhotic Rats. Journal of Visualized Experiments, 2018, , .	0.2	5
68	CCR6 controls autoimmune but not innate immunityâ€driven experimental arthritis. Journal of Cellular and Molecular Medicine, 2018, 22, 5278-5285.	1.6	10
69	Endothelial progerin expression causes cardiovascular pathology through an impaired mechanoresponse. Journal of Clinical Investigation, 2018, 129, 531-545.	3.9	75
70	The FXR agonist PX20606 ameliorates portal hypertension by targeting vascular remodelling and sinusoidal dysfunction. Journal of Hepatology, 2017, 66, 724-733.	1.8	130
71	Differences in Stem Cell Processing Lead to Distinct Secretomes Secretion—Implications for Differential Results of Previous Clinical Trials of Stem Cell Therapy for Myocardial Infarction. Biotechnology Journal, 2017, 12, 1600732.	1.8	9
72	Bioelectrical signals improve cardiac function and modify gene expression of extracellular matrix components. ESC Heart Failure, 2017, 4, 291-300.	1.4	9

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73	Preserved right ventricular integrity in a new telemetric rat model of severe pulmonary hypertension. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2017, 313, L957-L963.	1.3	2
74	Myocardial energy metabolism and ultrastructure with polarizing and depolarizing cardioplegia in a porcine modelâ€. European Journal of Cardio-thoracic Surgery, 2017, 52, 180-188.	0.6	5
75	Short-term clinical outcomes for intermittent cold versus intermittent warm blood cardioplegia in 2200 adult cardiac surgery patients. Journal of Cardiovascular Surgery, 2017, 58, 105-112.	0.3	8
76	MicroRNA 155-deficiency leads to decreased autoantibody levels and reduced severity of nephritis and pneumonitis in pristane-induced lupus. PLoS ONE, 2017, 12, e0181015.	1.1	30
77	Preservation of cartilage and bone architecture is the most important aspect for maintaining functionality in longstanding experimental arthritis. DMM Disease Models and Mechanisms, 2016, 9, 1329-1338.	1.2	39
78	Biocompatibility Assessment of a New Biodegradable Vascular Graft via In Vitro Co-culture Approaches and In Vivo Model. Annals of Biomedical Engineering, 2016, 44, 3319-3334.	1.3	20
79	Microcurrent stimulation promotes reverse remodelling in cardiomyocytes. ESC Heart Failure, 2016, 3, 122-130.	1.4	21
80	Influence of antithymocyte globulin treatment of brain-dead organ donor on inflammatory response in cardiac grafts: an experimental study in mice. Transplant International, 2016, 29, 1329-1336.	0.8	2
81	Acceptance of animal research in our science community. F1000Research, 2016, 5, 282.	0.8	2
82	<i>In vivo</i> and <i>ex vivo</i> functional characterization of left ventricular remodelling after myocardial infarction in mice. ESC Heart Failure, 2015, 2, 171-177.	1.4	6
83	S-nitroso human serum albumin attenuates pulmonary hypertension, improves right ventricular–arterial coupling, and reduces oxidative stress in a chronic right ventricle volume overload model. Journal of Heart and Lung Transplantation, 2015, 34, 479-488.	0.3	14
84	The nitric oxide donor, S-nitroso human serum albumin, as an adjunct to HTK-N cardioplegia improves protection during cardioplegic arrest after myocardial infarction in rats. Interactive Cardiovascular and Thoracic Surgery, 2015, 20, 387-394.	0.5	7
85	Myocardial infarct size measurement using geometric angle calculation. European Journal of Clinical Investigation, 2014, 44, 160-167.	1.7	8
86	Myofilament protein carbonylation contributes to the contractile dysfunction in the infarcted LV region of mouse hearts. Cardiovascular Research, 2014, 101, 108-119.	1.8	20
87	Type A dissection and chronic dilatation: tenascin-C as a key factor in destabilization of the aortic wall. Interactive Cardiovascular and Thoracic Surgery, 2013, 17, 365-370.	0.5	15
88	The continuing evolution of the Langendorff and ejecting murine heart: new advances in cardiac phenotyping. American Journal of Physiology - Heart and Circulatory Physiology, 2012, 303, H156-H167.	1.5	91
89	Lowâ€levelâ€laser irradiation induces photorelaxation in coronary arteries and overcomes vasospasm of internal thoracic arteries. Lasers in Surgery and Medicine, 2012, 44, 705-711.	1.1	10
90	Anti-Thymocyte Globulin Induces Neoangiogenesis and Preserves Cardiac Function after Experimental Myocardial Infarction. PLoS ONE, 2012, 7, e52101.	1.1	17

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91	Light-Induced Vasodilation of Coronary Arteries and Its Possible Clinical Implication. Annals of Thoracic Surgery, 2012, 93, 1181-1186.	0.7	39
92	Idiopathic Pulmonary Artery Aneurysm. Journal of Cardiac Surgery, 2011, 26, 154-156.	0.3	8
93	Intravenous and intramyocardial injection of apoptotic white blood cell suspensions prevents ventricular remodelling by increasing elastin expression in cardiac scar tissue after myocardial infarction. Basic Research in Cardiology, 2011, 106, 645-655.	2.5	71
94	Secretome of apoptotic peripheral blood cells (APOSEC) confers cytoprotection to cardiomyocytes and inhibits tissue remodelling after acute myocardial infarction: a preclinical study. Basic Research in Cardiology, 2011, 106, 1283-1297.	2.5	85
95	The ageing population $\hat{a} \in \hat{a}$ a challenge for cardiovascular surgery. European Surgery - Acta Chirurgica Austriaca, 2011, 43, 63-68.	0.3	2
96	Off-pump multi-vessel revascularization in patients with poor left ventricular function*. European Surgery - Acta Chirurgica Austriaca, 2011, 43, 103-109.	0.3	1
97	Editorial: The old and multimorbid patient – a challenge in cardiac surgery and cardiology. European Surgery - Acta Chirurgica Austriaca, 2011, 43, 62-62.	0.3	0
98	Effect of blower-mister devices on vasoreactivity of coronary artery bypass grafts. Journal of Thoracic and Cardiovascular Surgery, 2010, 140, 923-927.	0.4	4
99	The antiâ€angiogenic factor PEDF is present in the human heart and is regulated by anoxia in cardiac myocytes and fibroblasts. Journal of Cellular and Molecular Medicine, 2010, 14, 198-205.	1.6	44
100	Introducing a mouse model of brain death. Journal of Neuroscience Methods, 2010, 192, 70-74.	1.3	14
101	Dual modulation of nitric oxide production in the heart during ischaemia/reperfusion injury and inflammation. Thrombosis and Haemostasis, 2010, 104, 200-206.	1.8	23
102	Improved myocardial protection in the failing heart by selective endothelin-A receptor blockade. Journal of Thoracic and Cardiovascular Surgery, 2009, 137, 1005-1011.e1.	0.4	11
103	Sex-specific differences in ischemic heart failure: Role of estrogen. Gender Medicine, 2008, 5, 239-243.	1.4	3
104	S-nitroso human serum albumin reduces ischaemia/reperfusion injury in the pig heart after unprotected warm ischaemia. Cardiovascular Research, 2007, 77, 506-514.	1.8	39
105	Unveiling gender differences in demand ischemia: a study in a rat model of genetic hypertension. European Journal of Cardio-thoracic Surgery, 2007, 31, 298-304.	0.6	16
106	Functional alterations in NO, PGI2and EDHF pathways in the aortic endothelium after myocardial infarction in rats. European Journal of Heart Failure, 2006, 8, 769-776.	2.9	8
107	Inflammation and postinfarct remodeling: Overexpression of $\hat{l^o}$ B prevents ventricular dilation via increasing TIMP levels. Cardiovascular Research, 2006, 69, 746-754.	1.8	41
108	Comparison of Low and High Initial Tacrolimus Dosing in Primary Heart Transplant Recipients: A Prospective European Multicenter Study. Transplantation, 2005, 79, 65-71.	0.5	8

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109	S-nitroso Human Serum Albumin Attenuates Ischemia/Reperfusion Injury After Cardioplegic Arrest in Isolated Rabbit Hearts. Journal of Heart and Lung Transplantation, 2005, 24, 2226-2234.	0.3	30
110	S-Nitroso Human Serum Albumin Improves Oxygen Metabolism during Reperfusion after Severe Myocardial Ischemia. Pharmacology, 2004, 72, 106-112.	0.9	19
111	Adenovirus-mediated overexpression of inhibitor kappa B-alpha attenuates postinfarct remodeling in the rat heart?. European Journal of Cardio-thoracic Surgery, 2004, 26, 960-967.	0.6	26
112	Apoptosis in Heart Failure and the Senescent Heart. Cardiovascular Toxicology, 2003, 3, 183-190.	1.1	55
113	Quinaprilat during cardioplegic arrest in the rabbit to prevent ischemia-reperfusion injury. Journal of Thoracic and Cardiovascular Surgery, 2002, 124, 352-360.	0.4	19
114	Influence of gender on the response to hemodynamic overload after myocardial infarction. American Journal of Physiology - Heart and Circulatory Physiology, 2002, 283, H2544-H2550.	1.5	47
115	ETA-receptor blockade prevents matrix metalloproteinase activation late postmyocardial infarction in the rat. American Journal of Physiology - Heart and Circulatory Physiology, 2001, 280, H984-H991.	1.5	53
116	Significance of right bundle branch block in the diagnosis of myocardial ischemia in patients undergoing coronary artery bypass grafting. European Journal of Cardio-thoracic Surgery, 2000, 18, 187-193.	0.6	9
117	The erythrocyte-perfused "working heart―model. Journal of Pharmacological and Toxicological Methods, 1999, 41, 9-15.	0.3	34
118	Long-term results of heart valve replacement with the Edwards Duromedics bileaflet prosthesis: A prospective ten-year clinical follow-up. Journal of Thoracic and Cardiovascular Surgery, 1998, 115, 1121-1129.	0.4	25
119	Predictors of Outcome in Patients with Implantable Cardioverter Defibrillators. Cardiology, 1998, 90, 180-186.	0.6	12
120	Comparison of perioperative myocardial protection with nifedipine versus nifedipine and metoprolol in patients undergoing elective coronary artery bypass grafting. Journal of Thoracic and Cardiovascular Surgery, 1995, 110, 1461-1469.	0.4	32