

Peter Whittaker

List of Publications by Year in descending order

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114
papers

7,254
citations

81900
39
h-index

54911
84
g-index

117
all docs

117
docs citations

117
times ranked

7286
citing authors

#	ARTICLE	IF	CITATIONS
1	Regional ischemic 'preconditioning' protects remote virgin myocardium from subsequent sustained coronary occlusion.. Circulation, 1993, 87, 893-899.	1.6	1,181
2	Deleterious effects of oxygen radicals in ischemia/reperfusion. Resolved and unresolved issues.. Circulation, 1989, 80, 1115-1127.	1.6	505
3	Survival and Development of Neonatal Rat Cardiomyocytes Transplanted into Adult Myocardium. Journal of Molecular and Cellular Cardiology, 2002, 34, 107-116.	1.9	455
4	Quantitative assessment of myocardial collagen with picrosirius red staining and circularly polarized light. Basic Research in Cardiology, 1994, 89, 397-410.	5.9	428
5	Human Semilunar Cardiac Valve Remodeling by Activated Cells From Fetus to Adult. Circulation, 2006, 113, 1344-1352.	1.6	359
6	Rebuilding a Damaged Heart. Circulation, 2002, 105, 1720-1726.	1.6	239
7	The transient nature of the effect of ischemic preconditioning on myocardial infarct size and ventricular arrhythmia. American Heart Journal, 1992, 123, 346-353.	2.7	231
8	Measurement of Collagen and Smooth Muscle Cell Content in Atherosclerotic Plaques Using Polarization-Sensitive Optical Coherence Tomography. Journal of the American College of Cardiology, 2007, 49, 1474-1481.	2.8	224
9	Matrix Metalloproteinase-13/Collagenase-3 Deletion Promotes Collagen Accumulation and Organization in Mouse Atherosclerotic Plaques. Circulation, 2005, 112, 2708-2715.	1.6	199
10	Laser acupuncture: past, present, and future. Lasers in Medical Science, 2004, 19, 69-80.	2.1	187
11	Postconditioning via stuttering reperfusion limits myocardial infarct size in rabbit hearts: role of ERK1/2. American Journal of Physiology - Heart and Circulatory Physiology, 2005, 289, H1618-H1626.	3.2	180
12	Role of collagen in acute myocardial infarct expansion.. Circulation, 1991, 84, 2123-2134.	1.6	170
13	Collagen Organization in the Branching Region of Human Brain Arteries. Stroke, 1998, 29, 1595-1601.	2.0	134
14	Aging Mouse Hearts Are Refractory to Infarct Size Reduction With Post-Conditioning. Journal of the American College of Cardiology, 2008, 51, 1393-1398.	2.8	123
15	Autophagy as a therapeutic target for ischaemia /reperfusion injury? Concepts, controversies, and challenges. Cardiovascular Research, 2012, 94, 197-205.	3.8	116
16	Remote Ischemic Preconditioning: Current Knowledge, Unresolved Questions, and Future Priorities. Journal of Cardiovascular Pharmacology and Therapeutics, 2011, 16, 255-259.	2.0	115
17	Cardioprotection with Postconditioning: Loss of Efficacy in Murine Models of Type-2 and Type-1 Diabetes. Antioxidants and Redox Signaling, 2011, 14, 781-790.	5.4	113
18	Transmural Channels Can Protect Ischemic Tissue. Circulation, 1996, 93, 143-152.	1.6	102

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19	Cardioprotection â€œOutside the Boxâ€™. Basic Research in Cardiology, 2003, 98, 149-157.	5.9	99
20	Laser-mediated transmural myocardial channels do not salvage acutely ischemic myocardium. Journal of the American College of Cardiology, 1993, 22, 302-309.	2.8	95
21	Demonstration of Quantitative Fabric Analysis of Tendon Collagen using Two-Dimensional Polarized Light Microscopy. Matrix Biology, 1991, 11, 56-62.	1.7	79
22	Macrophage Colony-Stimulating Factor Treatment After Myocardial Infarction Attenuates Left Ventricular Dysfunction by Accelerating Infarct Repair. Journal of the American College of Cardiology, 2006, 47, 626-634.	2.8	70
23	Colchicine for primary prevention of atrial fibrillation after open-heart surgery: Systematic review and meta-analysis. International Journal of Cardiology, 2017, 249, 127-137.	1.7	66
24	The gap junction uncoupler heptanol abrogates infarct size reduction with preconditioning in mouse hearts. Cardiovascular Pathology, 2002, 11, 158-165.	1.6	63
25	Brief Antecedent Ischemia Attenuates Platelet-Mediated Thrombosis in Damaged and Stenotic Canine Coronary Arteries. Circulation, 1998, 97, 692-702.	1.6	61
26	Brief Antecedent Ischemia Enhances Recombinant Tissue Plasminogen Activatorâ€™Induced Coronary Thrombolysis by Adenosine-Mediated Mechanism. Circulation, 2000, 102, 88-95.	1.6	60
27	Collagen Content Is Significantly Lower in Restenotic Versus Nonrestenotic Vessels After Balloon Angioplasty in the Atherosclerotic Rabbit Model. Circulation, 1997, 95, 1293-1300.	1.6	57
28	No loss in the in vivo efficacy of ischemic preconditioning in middle-aged and old rabbits. Journal of the American College of Cardiology, 2001, 38, 1741-1747.	2.8	55
29	Genetically engineered resistance for MMP collagenases promotes abdominal aortic aneurysm formation in mice infused with angiotensin II. Laboratory Investigation, 2009, 89, 315-326.	3.7	55
30	Effect of Chronic Kidney Disease on Warfarin Management in a Pharmacist-Managed Anticoagulation Clinic. Journal of Managed Care Pharmacy, 2011, 17, 523-530.	2.2	55
31	Airway Remodeling in the Smoke Exposed Guinea Pig Model. Inhalation Toxicology, 2007, 19, 915-923.	1.6	54
32	Reduction of infarct size in vivo with ischemic preconditioning: Mathematical evidence for protection via non-ischemic tissue. Basic Research in Cardiology, 1994, 89, 6-15.	5.9	53
33	Targeted inhibition of the serotonin 5HT2A receptor improves coronary patency in an in vivo model of recurrent thrombosis. Journal of Thrombosis and Haemostasis, 2010, 8, 331-340.	3.8	51
34	Histologic signatures of thermal injury: Applications in transmyocardial laser revascularization and radiofrequency ablation. Lasers in Surgery and Medicine, 2000, 27, 305-318.	2.1	50
35	In vivo infusion of oxygen free radical substrates causes myocardial systolic, but not diastolic dysfunction. American Heart Journal, 1990, 119, 807-815.	2.7	49
36	Angiotensin II receptor blockade attenuates the deleterious effects of exercise training on post-MI ventricular remodelling in rats. Cardiovascular Research, 2000, 46, 66-72.	3.8	47

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37	Remote ischemic preconditioning fails to reduce infarct size in the Zucker fatty rat model of type-2 diabetes: role of defective humoral communication. Basic Research in Cardiology, 2018, 113, 16.	5.9	47
38	From Ischemic Conditioning to “Hyperconditioning”: Clinical Phenomenon and Basic Science Opportunity. Dose-Response, 2014, 12, dose-response.1.	1.6	41
39	Stunned myocardium and myocardial collagen damage: Differential effects of single and repeated occlusions. American Heart Journal, 1991, 121, 434-441.	2.7	40
40	Fibrin architecture in clots: A quantitative polarized light microscopy analysis†. Blood Cells, Molecules, and Diseases, 2009, 42, 51-56.	1.4	40
41	Pharmacy-managed anticoagulation: Assessment of in-hospital efficacy and evaluation of financial impact and community acceptance. Journal of Thrombosis and Thrombolysis, 2006, 22, 23-30.	2.1	39
42	Preconditioning ischemia attenuates molecular indices of platelet activation-aggregation. Journal of Thrombosis and Haemostasis, 2006, 4, 2670-2677.	3.8	37
43	Authorship and Characteristics of Articles in Pharmacy Journals: Changes Over a 20-Year Interval. Annals of Pharmacotherapy, 2011, 45, 357-363.	1.9	36
44	The Molecular Organization of Collagen in Saccular Aneurysms Assessed by Polarized Light Microscopy. Connective Tissue Research, 1988, 17, 43-54.	2.3	33
45	Characterization of collagen by high-frequency ultrasound: Evidence for different acoustic properties based on collagen fiber morphologic characteristics. American Heart Journal, 1997, 133, 364-368.	2.7	30
46	Percutaneous Treatment of Abdominal Aortic Aneurysm in a Swine Model. Circulation, 1997, 96, 2438-2448.	1.6	30
47	Success of transmyocardial laser revascularization is determined by the amount and organization of scar tissue produced in response to initial injury: Results of ultraviolet laser treatment. , 1999, 24, 253-260.		29
48	Intramyocardial Injections and Protection Against Myocardial Ischemia. Circulation, 1996, 93, 2043-2051.	1.6	27
49	Genesis of remote conditioning. Journal of Cardiovascular Medicine, 2013, 14, 180-186.	1.5	26
50	Remote Ischemic Conditioning and the Long Road to Clinical Translation. Circulation Research, 2016, 118, 1052-1054.	4.5	26
51	An improved method for detecting and quantifying cardiac muscle disarray in hypertrophic cardiomyopathy. American Heart Journal, 1989, 118, 341-346.	2.7	25
52	Pretreatment with d-myo-Inositol Trisphosphate Reduces Infarct Size in Rabbit Hearts: Role of Inositol Trisphosphate Receptors and Gap Junctions in Triggering Protection. Journal of Pharmacology and Experimental Therapeutics, 2005, 314, 1386-1392.	2.5	22
53	Effect of pressure on circumferential order of adventitial collagen in human brain arteries. Canadian Journal of Physiology and Pharmacology, 1992, 70, 296-305.	1.4	20
54	Collagen Fiber Morphology Determines Echogenicity of Myocardial Scar: Implications for Image Interpretation. Echocardiography, 2006, 23, 103-107.	0.9	20

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55	Remote-Conditioning Ischemia Provides a Potential Approach to Mitigate Contrast Medium-Induced Reduction in Kidney Function: A Retrospective Observational Cohort Study. <i>Cardiology</i> , 2011, 119, 145-150.	1.4	20
56	Transmural Channels as a Source of Blood Flow to Ischemic Myocardium?. <i>Circulation</i> , 1997, 95, 1357-1359.	1.6	20
57	Detection and Assessment of Laser-Mediated Injury in Transmyocardial Revascularization. <i>Photomedicine and Laser Surgery</i> , 1997, 15, 261-267.	0.9	19
58	Transmyocardial revascularization: the fate of myocardial channels. <i>Annals of Thoracic Surgery</i> , 1999, 68, 2376-2382.	1.3	19
59	Kidney dysfunction at the time of intracerebral hemorrhage is associated with increased in-hospital mortality: a retrospective observational cohort study. <i>Neurological Research</i> , 2012, 34, 518-521.	1.3	19
60	Ventricular remodeling after acute myocardial infarction: Effect of low-intensity laser irradiation. <i>Lasers in Surgery and Medicine</i> , 2000, 27, 29-38.	2.1	18
61	Brief Myocardial Ischemia Attenuates Platelet Thrombosis in Remote, Damaged, and Stenotic Carotid Arteries. <i>Circulation</i> , 1999, 100, 843-848.	1.6	17
62	Adaptation of a photochemical method to initiate recurrent platelet-mediated thrombosis in small animals. <i>Lasers in Medical Science</i> , 2007, 22, 42-45.	2.1	16
63	Venous Thromboembolism in an Industrial North American City: Temporal Distribution and Association with Particulate Matter Air Pollution. <i>PLoS ONE</i> , 2013, 8, e68829.	2.5	16
64	The Physics of Transmyocardial Laser Revascularization. <i>Photomedicine and Laser Surgery</i> , 1997, 15, 255-259.	0.9	15
65	Lamina Propria Cellularity and Collagen Composition: An Integrated Assessment of Structure in Humans. <i>Annals of Otology, Rhinology and Laryngology</i> , 2009, 118, 299-306.	1.1	15
66	Ablation and coagulation of myocardial tissue by means of a pulsed holmium:YAG laser. <i>American Heart Journal</i> , 1993, 126, 1474-1477.	2.7	14
67	Ventricular remodeling after myocardial infarction and effects of ACE inhibition on hemodynamics and scar formation in SHR. <i>Cardiovascular Pathology</i> , 2002, 11, 88-93.	1.6	14
68	Calcium Administration Is Associated with Adverse Outcomes in Critically Ill Patients Receiving Parenteral Nutrition: Results from a Natural Experiment Created by a Calcium Gluconate Shortage. <i>Pharmacotherapy</i> , 2016, 36, 1185-1190.	2.6	14
69	Biomarker-based diagnosis of pacemaker and implantable cardioverter defibrillator pocket infections: A prospective, multicentre, case-control evaluation. <i>PLoS ONE</i> , 2017, 12, e0172384.	2.5	14
70	Preconditioning stimuli and inadvertent preconditioning. <i>Journal of Molecular and Cellular Cardiology</i> , 1995, 27, 743-747.	1.9	12
71	Warfarin maintenance dose in older patients: Higher average dose and wider dose frequency distribution in patients of African ancestry than those of European ancestry. <i>Blood Cells, Molecules, and Diseases</i> , 2010, 45, 93-97.	1.4	12
72	The tunica muscularis of human brain arteries: three-dimensional measurements of alignment of the smooth muscle mechanical axis, by polarized light and the universal stage. <i>Neurological Research</i> , 1986, 8, 66-74.	1.3	11

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73	Biphasic Survival Response to Amlodipine after Myocardial Infarction in Rats. Cardiovascular Pathology, 2000, 9, 85-93.	1.6	11
74	Cardioprotection via adaptation to hypoxia: expanding the timeline and targets?. Basic Research in Cardiology, 2011, 106, 325-328.	5.9	11
75	Electric Cars and Electromagnetic Interference With Cardiac Implantable Electronic Devices: A Cross-sectional Evaluation. Annals of Internal Medicine, 2018, 169, 350-352.	3.9	11
76	Spatial orientation of arterial sections determined from aligned vascular smooth muscle. Journal of Microscopy, 1989, 155, 213-226.	1.8	10
77	Dissociation between improvement in angina pectoris and myocardial perfusion after transmyocardial revascularization with an excimer laser. American Journal of Cardiology, 2001, 87, 229-231.	1.6	10
78	Development of abnormal tissue architecture in transplanted neonatal rat myocytes. Annals of Thoracic Surgery, 2003, 75, 1450-1456.	1.3	10
79	Ischemic Conditioning Attenuates Platelet-Mediated Thrombosis. Journal of Cardiovascular Pharmacology and Therapeutics, 2017, 22, 391-396.	2.0	10
80	Remote ischemic conditioning and renal function after contrast-enhanced CT scan: A randomized trial. Clinical and Investigative Medicine, 2015, 38, 110.	0.6	10
81	The Effect of Cognitive Impairment in the Elderly on the Initial and Long-Term Stability of Warfarin Therapy. Drugs and Aging, 2012, 29, 307-317.	2.7	9
82	Transient pre-ischemic acidosis protects the isolated rabbit heart subjected to 30 minutes, but not 60 minutes, of global ischemia. Basic Research in Cardiology, 1995, 90, 397-403.	5.9	8
83	Excimer laser channels protect against myocardial ischemia. Journal of the American College of Cardiology, 1996, 27, 13.	2.8	8
84	In Vitro Platelet Responsiveness to Adenosine-Mediated "Preconditioning" is Age-Dependent. Journal of Thrombosis and Thrombolysis, 2005, 19, 5-10.	2.1	8
85	First molecular evidence that inositol trisphosphate signaling contributes to infarct size reduction with preconditioning. American Journal of Physiology - Heart and Circulatory Physiology, 2006, 291, H2008-H2012.	3.2	8
86	Deep sedation for transvenous lead extraction: a large single-centre experience. Europace, 2019, 21, 1246-1253.	1.7	8
87	Laser-mediated reversal of cardiac expansion after myocardial infarction. , 1999, 25, 198-206.		7
88	Reduction of infarct size with d-myo-inositol trisphosphate: role of PI3-kinase and mitochondrial KATP channels. American Journal of Physiology - Heart and Circulatory Physiology, 2006, 290, H830-H836.	3.2	7
89	Point-of-care assessment of platelet reactivity in the emergency department may facilitate rapid rule-out of acute coronary syndromes: a prospective cohort pilot feasibility study. BMJ Open, 2014, 4, e003883.	1.9	7
90	Monophosphoryl Lipid A: A Novel Nitric Oxide-Mediated Therapy to Attenuate Platelet Thrombosis?. Journal of Cardiovascular Pharmacology, 2000, 35, 366-375.	1.9	7

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91	Myocardial revascularization. Annals of Thoracic Surgery, 1996, 61, 1874-1875.	1.3	6
92	Cardioprotection with adenosine: â€˜a riddle wrapped in a mysteryâ€™™. British Journal of Pharmacology, 2005, 145, 699-700.	5.4	6
93	Brief apnea induces myocardial ischemic tolerance by an opioid-insensitive mechanism. Cardiovascular Pathology, 2004, 13, 225-229.	1.6	5
94	Gender-specific associations between coronary heart disease and other chronic diseases: cross-sectional evaluation of national survey data from adult residents of Germany. Journal of Geriatric Cardiology, 2019, 16, 663-670.	0.2	5
95	The Future of Remote Ischemic Conditioning. Journal of Cardiovascular Pharmacology and Therapeutics, 2017, 22, 295-296.	2.0	4
96	Sodium Nitriteâ€™Mediated Cardioprotection in Primary Percutaneous Coronary Intervention for ST-Segment Elevation Myocardial Infarction: A Cost-Effectiveness Analysis. Journal of Cardiovascular Pharmacology and Therapeutics, 2019, 24, 113-119.	2.0	4
97	Ventricular remodeling of the heart. Current Opinion in Cardiology, 1991, 6, 346-351.	1.8	3
98	<title>Chronic response to direct myocardial revascularization: a preliminary study</title>. , 1993, , .		3
99	Mechanical Attempts to Induce Myocardial Angiogenesis. Advances in Organ Biology, 1999, , 197-214.	0.1	3
100	Synopsis of Ischemic Preconditioning: What have we Learned Since 1986?. Developments in Cardiovascular Medicine, 1994, , 153-170.	0.1	3
101	Thermodilution left-sided cardiac output for valve area determination after balloon mitral valvotomy. American Heart Journal, 1994, 128, 934-940.	2.7	2
102	Captopril Therapy Limits Ventricular Remodeling But Does Not Alter Myocardial Collagen Fiber Morphology of Cardiomyopathic Hamsters. Cardiovascular Pathology, 1997, 6, 307-313.	1.6	2
103	Laser acupuncture and analgesia: preliminary evidence for a transient and opioid-mediated effect. , 2006, , .		2
104	Anticoagulant plus antiplatelet therapy for atrial fibrillation. Herz, 2020, 45, 564-571.	1.1	2
105	Increased Perfusion Via Laser-mediated Myocardial Channels?. Developments in Cardiovascular Medicine, 1999, , 61-80.	0.1	2
106	Targeted Coronary Thrombolysis via "Pericardial" Administration of Lytic Agents?. Journal of Thrombosis and Thrombolysis, 1998, 6, 83-88.	2.1	1
107	Hypoechoic areas on ultrasound images of atheroma are not always diagnostic of fatty plaque. Ultrasound in Medicine and Biology, 2005, 31, 1013-1015.	1.5	1
108	Histologic signatures of thermal injury: Applications in transmural laser revascularization and radiofrequency ablation. Lasers in Surgery and Medicine, 2000, 27, 305-318.	2.1	1

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109	Initial Use of an Ultraviolet Laser for TMR. Developments in Cardiovascular Medicine, 1999, , 121-141.	0.1	1
110	Comparative examination of fiber tips in myocardium using a holmium:YAG laser. , 1992, , .		0
111	Rescue transcatheter embolectomy following complicated transluminal extraction atherectomy of a coronary vein graft. Catheterization and Cardiovascular Diagnosis, 1993, 28, 354-357.	0.3	0
112	Reply. , 1999, 25, 377-378.		0
113	Reduction of Infarct Size” “Preconditioning at a Distance” Medical Intelligence Unit, 1996, , 79-96.	0.2	0
114	Pain Management Program in Cardiology: A Template for Application of Normalization Process Theory and Social Marketing to Implement a Change in Practice Quality Improvement. International Journal of Environmental Research and Public Health, 2022, 19, 5251.	2.6	0