

Stephen E Greenwald

List of Publications by Year in descending order

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103
papers

3,561
citations

159525

30
h-index

143943

57
g-index

106
all docs

106
docs citations

106
times ranked

3701
citing authors

#	ARTICLE	IF	CITATIONS
1	Impaired synthesis of elastin in walls of aorta and large conduit arteries during early development as an initiating event in pathogenesis of systemic hypertension. <i>Lancet, The</i> , 1997, 350, 953-955.	6.3	348
2	Motion-compensated noncontact imaging photoplethysmography to monitor cardiorespiratory status during exercise. <i>Journal of Biomedical Optics</i> , 2011, 16, 077010.	1.4	176
3	Effects of hypertension on the static mechanical properties and chemical composition of the rat aorta. <i>Cardiovascular Research</i> , 1976, 10, 437-451.	1.8	156
4	Residual strains in conduit arteries. <i>Journal of Biomechanics</i> , 2003, 36, 661-670.	0.9	146
5	RESPONSES OF SMALL INTESTINAL ARCHITECTURE AND FUNCTION OVER TIME TO ENVIRONMENTAL FACTORS IN A TROPICAL POPULATION. <i>American Journal of Tropical Medicine and Hygiene</i> , 2004, 70, 412-419.	0.6	134
6	Noncontact imaging photoplethysmography to effectively access pulse rate variability. <i>Journal of Biomedical Optics</i> , 2012, 18, 061205.	1.4	124
7	Morbid anatomy in neonates with Ebstein's anomaly of the tricuspid valve: Pathophysiologic and clinical implications. <i>Journal of the American College of Cardiology</i> , 1992, 19, 1049-1053.	1.2	117
8	Validation of a device to measure arterial pulse wave velocity by a photoplethysmographic method. <i>Physiological Measurement</i> , 2002, 23, 581-596.	1.2	115
9	Structural inhomogeneity and fiber orientation in the inner arterial media. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2010, 298, H1537-H1545.	1.5	106
10	Use of ambient light in remote photoplethysmographic systems: comparison between a high-performance camera and a low-cost webcam. <i>Journal of Biomedical Optics</i> , 2012, 17, 037005.	1.4	106
11	Static mechanical properties of the developing and mature rat aorta. <i>Cardiovascular Research</i> , 1975, 9, 669-678.	1.8	90
12	Twin-Twin Transfusion Syndrome. <i>Circulation</i> , 2003, 107, 1906-1911.	1.6	88
13	Curcumin improves endothelial dysfunction and vascular remodeling in 2K-1C hypertensive rats by raising nitric oxide availability and reducing oxidative stress. <i>Nitric Oxide - Biology and Chemistry</i> , 2014, 42, 44-53.	1.2	86
14	Responses of small intestinal architecture and function over time to environmental factors in a tropical population. <i>American Journal of Tropical Medicine and Hygiene</i> , 2004, 70, 412-9.	0.6	83
15	A Hypothesis About A Mechanism For The Programming Of Blood Pressure And Vascular Disease In Early Life. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2001, 28, 948-951.	0.9	79
16	The influence of swelling and matrix degradation on the microstructural integrity of tendon. <i>Acta Biomaterialia</i> , 2006, 2, 505-513.	4.1	79
17	Ferulic Acid Alleviates Changes in a Rat Model of Metabolic Syndrome Induced by High-Carbohydrate, High-Fat Diet. <i>Nutrients</i> , 2015, 7, 6446-6464.	1.7	73
18	Effect of Age and Sex on Residual Stress in the Aorta. <i>Journal of Vascular Research</i> , 1995, 32, 398-405.	0.6	70

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19	Elastin is Localised to the Interfascicular Matrix of Energy Storing Tendons and Becomes Increasingly Disorganised With Ageing. <i>Scientific Reports</i> , 2017, 7, 9713.	1.6	69
20	Effects of vitamin D ₂ or D ₃ supplementation on glycaemic control and cardiometabolic risk among people at risk of type 2 diabetes: results of a randomized double-blind placebo-controlled trial. <i>Diabetes, Obesity and Metabolism</i> , 2016, 18, 392-400.	2.2	67
21	Tetrahydrocurcumin Protects against Cadmium-Induced Hypertension, Raised Arterial Stiffness and Vascular Remodeling in Mice. <i>PLoS ONE</i> , 2014, 9, e114908.	1.1	54
22	Effect of age on the in vitro reflection coefficient of the aortoiliac bifurcation in humans.. <i>Circulation</i> , 1990, 82, 114-123.	1.6	51
23	Assessing the Homogeneity of the Elastic Properties and Composition of the Pig Aortic Media. <i>Journal of Vascular Research</i> , 2001, 38, 237-246.	0.6	51
24	Static mechanical properties and chemical composition of the aorta of spontaneously hypertensive rats: a comparison with the effects of induced hypertension. <i>Cardiovascular Research</i> , 1978, 12, 364-372.	1.8	46
25	Effects of exercise modalities on central hemodynamics, arterial stiffness and cardiac function in cardiovascular disease: Systematic review and meta-analysis of randomized controlled trials. <i>PLoS ONE</i> , 2018, 13, e0200829.	1.1	46
26	Towards a consensus on the understanding and analysis of the pulse waveform: Results from the 2016 Workshop on Arterial Hemodynamics: Past, present and future. <i>Artery Research</i> , 2017, 18, 75.	0.3	44
27	The Effect of Tumor Necrosis Factor- α Antagonists on Arterial Stiffness in Rheumatoid Arthritis: A Literature Review. <i>Seminars in Arthritis and Rheumatism</i> , 2012, 42, 1-8.	1.6	42
28	The relationship between wall tension, lamellar thickness, and intercellular junctions in the fetal and adult aorta: Its relevance to the pathology of dissecting aneurysm. <i>Journal of Pathology</i> , 1993, 169, 15-20.	2.1	37
29	Effects of intra-coronary administration of leukotriene D ₄ in the anaesthetized dog. <i>Prostaglandins</i> , 1983, 26, 563-572.	1.2	35
30	Pulse pressure and arterial elasticity. <i>QJM - Monthly Journal of the Association of Physicians</i> , 2002, 95, 107-112.	0.2	34
31	High dose multiple micronutrient supplementation improves villous morphology in environmental enteropathy without HIV enteropathy: results from a double-blind randomised placebo controlled trial in Zambian adults. <i>BMC Gastroenterology</i> , 2014, 14, 15.	0.8	30
32	Rice bran protein hydrolysates reduce arterial stiffening, vascular remodeling and oxidative stress in rats fed a high-carbohydrate and high-fat diet. <i>European Journal of Nutrition</i> , 2018, 57, 219-230.	1.8	29
33	Impulse propagation in normal and stenosed vessels. <i>Cardiovascular Research</i> , 1981, 15, 190-195.	1.8	28
34	Reflection from elastic discontinuities. <i>Medical and Biological Engineering and Computing</i> , 1983, 21, 697-701.	1.6	28
35	Prolonged calcium transients and myocardial remodelling in early experimental uraemia. <i>Nephrology Dialysis Transplantation</i> , 2002, 17, 759-764.	0.4	28
36	Impulse propagation through junctions. <i>Medical and Biological Engineering and Computing</i> , 1982, 20, 343-350.	1.6	27

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37	Comparison between theoretical and directly measured pulse propagation velocities in the aorta of the anaesthetised dog. <i>Cardiovascular Research</i> , 1978, 12, 407-414.	1.8	26
38	Changes in the distensibility of the intrapulmonary arteries in the normal newborn and growing pig. <i>Cardiovascular Research</i> , 1982, 16, 716-725.	1.8	25
39	Supersonic Shear Wave Imaging to Assess Arterial Nonlinear Behavior and Anisotropy: Proof of Principle via <i>Ex Vivo</i> Testing of the Horse Aorta. <i>Advances in Mechanical Engineering</i> , 2014, 6, 272586.	0.8	24
40	Effect of beta-aminopropionitrile on the static elastic properties and blood pressure of spontaneously hypertensive rats. <i>Cardiovascular Research</i> , 1981, 15, 373-381.	1.8	23
41	Actions of cysteinyl leukotrienes in coronary, femoral and carotid vessels of the pig. <i>European Journal of Pharmacology</i> , 1984, 103, 107-114.	1.7	23
42	Carotid atherosclerotic plaque characterisation by measurement of ultrasound sound speed in vitro at high frequency, 20MHz. <i>Ultrasonics</i> , 2014, 54, 428-441.	2.1	23
43	Cardiac function in 10-year-old twins following different fetal therapies for twin-twin transfusion syndrome. <i>Ultrasound in Obstetrics and Gynecology</i> , 2014, 43, 652-657.	0.9	21
44	A Bi-Directional LSTM Network for Estimating Continuous Upper Limb Movement From Surface Electromyography. <i>IEEE Robotics and Automation Letters</i> , 2021, 6, 7217-7224.	3.3	21
45	Impulse propagation in rubber-tube analogues of arterial stenoses and aneurysms. <i>Medical and Biological Engineering and Computing</i> , 1985, 23, 150-154.	1.6	20
46	Are Geometrical and Structural Variations Along the Length of the Aorta Governed by a Principle of "Optimal Mechanical Operation"? <i>Journal of Biomechanical Engineering</i> , 2013, 135, 81006.	0.6	20
47	Effect of smooth muscle activity on the static and dynamic elastic properties of the rabbit carotid artery. <i>Cardiovascular Research</i> , 1982, 16, 86-94.	1.8	19
48	Impulse propagation in liquid filled distensible tubes: Theory and experiment for intermediate to long wavelengths. <i>Acta Mechanica</i> , 1986, 59, 47-58.	1.1	19
49	Altered Vascular Function, Arterial Stiffness, and Antioxidant Gene Responses in Pediatric Thalassemia Patients. <i>Pediatric Cardiology</i> , 2012, 33, 1054-1060.	0.6	19
50	An in vivo study of the total occlusion method for the analysis of forward and backward pressure waves. <i>Cardiovascular Research</i> , 1979, 13, 595-600.	1.8	17
51	Comparison of different methods for the determination of the true wave propagation coefficient, in rubber tubes and the canine thoracic aorta. <i>Medical Engineering and Physics</i> , 1997, 19, 212-222.	0.8	17
52	High frequency characteristics of the arterial system. <i>Journal of Biomechanics</i> , 1986, 19, 817-824.	0.9	16
53	Role of fetal nutrient restriction and postnatal catch-up growth on structural and mechanical alterations of rat aorta. <i>Journal of Physiology</i> , 2018, 596, 5791-5806.	1.3	16
54	Quantitative Comparison of the Performance of Piezoresistive, Piezoelectric, Acceleration, and Optical Pulse Wave Sensors. <i>Frontiers in Physiology</i> , 2019, 10, 1563.	1.3	16

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55	Elastase treatment of tendon specifically impacts the mechanical properties of the interfascicular matrix. <i>Acta Biomaterialia</i> , 2021, 123, 187-196.	4.1	16
56	Analysis of the strain and stress distribution in the wall of the developing and mature rat aorta. <i>Biorheology</i> , 1995, 32, 473-485.	1.2	15
57	Vascular programming in twins: the effects of chorionicity and fetal therapy for twin-to-twin transfusion syndrome. <i>Journal of Developmental Origins of Health and Disease</i> , 2012, 3, 182-189.	0.7	14
58	Noninvasive measurement of vascular compliance by a photoplethmographic technique. , 1997, , .		13
59	Robust heart-rate estimation from facial videos using Project_ICA. <i>Physiological Measurement</i> , 2019, 40, 085007.	1.2	13
60	Silicon photonics-based laser Doppler vibrometer array for carotid-femoral pulse wave velocity (PWV) measurement. <i>Biomedical Optics Express</i> , 2020, 11, 3913.	1.5	13
61	Automatic quantification of epicardial adipose tissue volume. <i>Medical Physics</i> , 2021, 48, 4279-4290.	1.6	12
62	Material parameter estimation and hypothesis testing on a 1D viscoelastic stenosis model: Methodology. <i>Journal of Inverse and Ill-Posed Problems</i> , 2013, 21, 25-57.	0.5	11
63	A high-performance 8â€‰nV/âˆšHz 8-channel wearable and wireless system for real-time monitoring of bioelectrical signals. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2019, 16, 156.	2.4	11
64	Model validation for a noninvasive arterial stenosis detection problem. <i>Mathematical Biosciences and Engineering</i> , 2014, 11, 427-448.	1.0	11
65	Reversal and Remission of T2DM â€œ An Update for Practitioners. <i>Vascular Health and Risk Management</i> , 0, Volume 18, 417-443.	1.0	11
66	High-order space-time finite element schemes for acoustic and viscodynamic wave equations with temporal decoupling. <i>International Journal for Numerical Methods in Engineering</i> , 2014, 98, 131-156.	1.5	10
67	Pulse propagation characteristics by an impulse technique. <i>Medical and Biological Engineering and Computing</i> , 1983, 21, 515-517.	1.6	9
68	Waves in fluid filled tubes: Theory and experiment. <i>Acta Mechanica</i> , 1984, 54, 107-119.	1.1	9
69	Detection and Localization of Myocardial Infarction Based on Multi-Scale ResNet and Attention Mechanism. <i>Frontiers in Physiology</i> , 2022, 13, 783184.	1.3	9
70	Comparative morphological and functional aspects of the aorta of the major vertebrate classes. <i>Laboratory Animals</i> , 1974, 8, 279-289.	0.5	8
71	Analysis of forward and backward pressure waves by a total-occlusion method. <i>Medical and Biological Engineering and Computing</i> , 1980, 18, 241-245.	1.6	7
72	Techniques in the Determination of the Mechanical Properties and Constitutive Laws of Arterial Walls. , 2000, , .		7

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73	Estimation of central pulse wave velocity from radial pulse wave analysis. <i>Computer Methods and Programs in Biomedicine</i> , 2022, 219, 106781.	2.6	7
74	Association of arterial stiffness with single nucleotide polymorphism rs1333049 and metabolic risk factors. <i>Cardiovascular Diabetology</i> , 2013, 12, 93.	2.7	6
75	Detecting carotid stenosis from skin vibrations using Laser Doppler Vibrometry "An in vitro proof-of-concept. <i>PLoS ONE</i> , 2019, 14, e0218317.	1.1	6
76	Detection of physiological changes after exercise via a remote optophysiological imaging system. , 2011, , .		5
77	Comparing the effect of moderate intensity exercise on arterial stiffness in resistance trained athletes, endurance trained athletes and sedentary controls: A cross-sectional observational study. <i>Artery Research</i> , 2013, 7, 216.	0.3	5
78	Characterisation of Elastic and Acoustic Properties of an Agar-Based Tissue Mimicking Material. <i>Annals of Biomedical Engineering</i> , 2015, 43, 2587-2596.	1.3	5
79	Aortic pressure waveform reconstruction using a multi-channel Newton blind system identification algorithm. <i>Computers in Biology and Medicine</i> , 2021, 135, 104545.	3.9	4
80	Improving the accuracy and robustness of carotid-femoral pulse wave velocity measurement using a simplified tube-load model. <i>Scientific Reports</i> , 2022, 12, 5147.	1.6	4
81	In vitro determination of lung airway compliance in small animals. <i>Medical and Biological Engineering and Computing</i> , 1988, 26, 497-502.	1.6	3
82	Comparison of scientific CMOS camera and webcam for monitoring cardiac pulse after exercise. , 2011, , .		3
83	Inbuilt Mechanisms for Overcoming Functional Problems Inherent in Hepatic Microlobular Structure. <i>Computational and Mathematical Methods in Medicine</i> , 2011, 2011, 1-8.	0.7	3
84	Statistical Analysis of the Consistency of HRV Analysis Using BCG or Pulse Wave Signals. <i>Sensors</i> , 2022, 22, 2423.	2.1	3
85	Noninvasive estimation of aortic pressure waveform based on simplified Kalman filter and dual peripheral artery pressure waveforms. <i>Computer Methods and Programs in Biomedicine</i> , 2022, 219, 106760.	2.6	3
86	Modele a Deux Couches de la Paroi Arterielle: Proprietes Elastiques et Distribution Des Contraintes. <i>Archives of Physiology and Biochemistry</i> , 1995, 103, C46-C46.	1.0	2
87	Evaluation of Cardiorespiratory Function During Cardiopulmonary Exercise Testing in Untreated Hypertensive and Healthy Subjects. <i>Frontiers in Physiology</i> , 2018, 9, 1590.	1.3	2
88	Experimental Investigation of Mechanical and Structural Inhomogeneity in Bovine Carotid Arteries. , 2008, , .		2
89	Quality evaluation of signals collected by portable ECG devices using dimensionality reduction and flexible model integration. <i>Physiological Measurement</i> , 2020, 41, 105001.	1.2	2
90	Photoplethysmographic assessment of arterial stiffness and endothelial function. , 2022, , 235-276.		2

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91	Coronary vasodilation induced by calcitonin gene-related peptide in the anaesthetised pig. <i>Neuropeptides</i> , 1989, 13, 95-102.	0.9	1
92	Induction or prevention of intimal hyperplasia by photodynamic therapy in a porcine model. , 1995, 2395, 390.		1
93	Ultrasound Assessment of the Relation Between Local Hemodynamic Parameters and Plaque Morphology. <i>IEEE Access</i> , 2020, 8, 145149-145158.	2.6	1
94	Noncontact Heart Rate Measurement Using a Webcam, Based on Joint Blind Source Separation and a Skin Reflection Model: For a Wide Range of Imaging Conditions. <i>Journal of Sensors</i> , 2021, 2021, 1-18.	0.6	1
95	Estimation of coronary artery movement using a non-rigid registration with global-local structure preservation. <i>Computers in Biology and Medicine</i> , 2022, 141, 105125.	3.9	1
96	Relationship between epicardial fat volume on cardiac CT and atherosclerosis severity in three-vessel coronary artery disease: a single-center cross-sectional study. <i>BMC Cardiovascular Disorders</i> , 2022, 22, 76.	0.7	1
97	Re-endothelialization following balloon injury and photodynamic therapy of the rabbit aorta. , 1997, 2970, 51.		0
98	Modelling emboli with floating fir cones. <i>BMJ: British Medical Journal</i> , 2004, 329, 1433-1434.	2.4	0
99	3D imaging of arterial wall using confocal microscopy. , 2014, , .		0
100	4.4 CAN LASER DOPPLER VIBROMETER DETECT CAROTID STENOSIS FROM SKIN VIBRATIONS? HYDRAULIC BENCH TESTS ON PATIENT-SPECIFIC MODEL. <i>Artery Research</i> , 2018, 24, 76.	0.3	0
101	P51 NON-CONTACT MEASUREMENT OF LOCAL CAROTID AND CAROTID-FEMORAL PULSE WAVE VELOCITY BY LASER DOPPLER VIBROMETRY: VALIDATION OF A NEW DEVICE AGAINST REFERENCE TECHNIQUES IN HYPERTENSIVE PATIENTS. <i>Artery Research</i> , 2018, 24, 93.	0.3	0
102	Physics of Within-Tissue Wave Propagation Generated by Pulse Propagation in the Carotid Artery. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 2878.	1.3	0
103	Non-invasive Cardiovascular Disease Assessment with Miniaturized Multi-beam Laser Doppler Vibrometry. , 2018, , .		0