

# John M Karemaker

## List of Publications by Year in descending order

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125  
papers

6,725  
citations

66234

42  
h-index

66788

78  
g-index

125  
all docs

125  
docs citations

125  
times ranked

5555  
citing authors

#	ARTICLE	IF	CITATIONS
1	Syncope, cerebral perfusion, and oxygenation. <i>Journal of Applied Physiology</i> , 2003, 94, 833-848.	1.2	328
2	Comparison of various techniques used to estimate spontaneous baroreflex sensitivity (the Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 707 T Physiology, 2004, 286, R226-R231.	0.9	325
3	The vasovagal response. <i>Clinical Science</i> , 1991, 81, 575-586.	1.8	311
4	Comparing Spectra of a Series of Point Events Particularly for Heart Rate Variability Data. <i>IEEE Transactions on Biomedical Engineering</i> , 1984, BME-31, 384-387.	2.5	305
5	Relationships between short-term blood-pressure fluctuations and heart-rate variability in resting subjects I: a spectral analysis approach. <i>Medical and Biological Engineering and Computing</i> , 1985, 23, 352-358.	1.6	278
6	Quantification of Wave Reflection in the Human Aorta From Pressure Alone. <i>Hypertension</i> , 2006, 48, 595-601.	1.3	267
7	Continuous non-invasive blood pressure monitoring: reliability of Finapres device during the Valsalva manoeuvre. <i>Cardiovascular Research</i> , 1988, 22, 390-397.	1.8	241
8	Human cerebral venous outflow pathway depends on posture and central venous pressure. <i>Journal of Physiology</i> , 2004, 560, 317-327.	1.3	230
9	Impaired Cerebral Autoregulation in Patients With Malignant Hypertension. <i>Circulation</i> , 2004, 110, 2241-2245.	1.6	218
10	Time-domain cross-correlation baroreflex sensitivity. <i>Journal of Hypertension</i> , 2004, 22, 1371-1380.	0.3	204
11	Dynamic Cerebral Autoregulation in Acute Lacunar and Middle Cerebral Artery Territory Ischemic Stroke. <i>Stroke</i> , 2005, 36, 2595-2600.	1.0	175
12	An introduction into autonomic nervous function. <i>Physiological Measurement</i> , 2017, 38, R89-R118.	1.2	147
13	Denervation of Carotid Baro€and Chemoreceptors in Humans. <i>Journal of Physiology</i> , 2003, 553, 3-11.	1.3	146
14	Time delays in the human baroreceptor reflex. <i>Journal of the Autonomic Nervous System</i> , 1983, 9, 399-409.	1.9	138
15	Use of lower abdominal compression to combat orthostatic hypotension in patients with autonomic dysfunction. <i>Clinical Autonomic Research</i> , 2004, 14, 167-75.	1.4	115
16	Long-Term Effects of Carotid Sinus Denervation on Arterial Blood Pressure in Humans. <i>Circulation</i> , 2002, 105, 1329-1335.	1.6	110
17	Counterpoint: Respiratory sinus arrhythmia is due to the baroreflex mechanism. <i>Journal of Applied Physiology</i> , 2009, 106, 1742-1743.	1.2	103
18	Effects of aging on blood pressure variability in resting conditions.. <i>Hypertension</i> , 1994, 24, 120-130.	1.3	92

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19	Noninvasive cardiac output measurement by arterial pulse analysis compared with inert gas rebreathing. <i>Journal of Applied Physiology</i> , 1993, 74, 2687-2693.	1.2	91
20	Relationships between short-term blood-pressure fluctuations and heart-rate variability in resting subjects II: a simple model. <i>Medical and Biological Engineering and Computing</i> , 1985, 23, 359-364.	1.6	90
21	Influence of Chemoreflexes on Respiratory Variability in Healthy Subjects. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2002, 165, 1041-1047.	2.5	90
22	How stressful is doctor-patient communication? Physiological and psychological stress of medical students in simulated history taking and bad-news consultations. <i>International Journal of Psychophysiology</i> , 2010, 77, 26-34.	0.5	90
23	Spectrum of a series of point events, generated by the integral pulse frequency modulation model. <i>Medical and Biological Engineering and Computing</i> , 1985, 23, 138-142.	1.6	80
24	Autonomic Dysfunction Precedes Development of Rheumatoid Arthritis: A Prospective Cohort Study. <i>EBioMedicine</i> , 2016, 6, 231-237.	2.7	80
25	Dynamic cerebral autoregulatory capacity is affected early in Type 2 diabetes. <i>Clinical Science</i> , 2008, 115, 255-262.	1.8	78
26	Circumstances surrounding aneurysmal subarachnoid hemorrhage. <i>World Neurosurgery</i> , 1989, 32, 266-272.	1.3	76
27	Subtle involvement of the sympathetic nervous system in amyotrophic lateral sclerosis. <i>Muscle and Nerve</i> , 2002, 25, 402-408.	1.0	76
28	Repetitive apneas induce periodic hypertension in normal subjects through hypoxia. <i>Journal of Applied Physiology</i> , 1992, 72, 821-827.	1.2	75
29	Baroreflex and chemoreflex function after bilateral carotid body tumor resection. <i>Journal of Hypertension</i> , 2003, 21, 591-599.	0.3	75
30	Time course analysis of baroreflex sensitivity during postural stress. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2006, 291, H2864-H2874.	1.5	75
31	Tidal volume, cardiac output and functional residual capacity determine end-tidal CO <sub>2</sub> transient during standing up in humans. <i>Journal of Physiology</i> , 2004, 554, 579-590.	1.3	70
32	Multi-site and multi-depth near-infrared spectroscopy in a model of simulated (central) hypovolemia: lower body negative pressure. <i>Intensive Care Medicine</i> , 2011, 37, 671-677.	3.9	63
33	Effects of thiopentone, etomidate and propofol on beat-to-beat cardiovascular signals in man. <i>Anaesthesia</i> , 1993, 48, 849-855.	1.8	61
34	Sublingual Nitroglycerin Used in Routine Tilt Testing Provokes a Cardiac Output-Mediated Vasovagal Response. <i>Journal of the American College of Cardiology</i> , 2004, 44, 588-593.	1.2	60
35	Description of Heart-Rate Variability Data in Accordance With a Physiological Model for the Genesis of Heartbeats. <i>Psychophysiology</i> , 1985, 22, 147-155.	1.2	57
36	Long-term effects of unilateral carotid endarterectomy on arterial baroreflex function. <i>Clinical Autonomic Research</i> , 2004, 14, 72-79.	1.4	51

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37	Impact of age on the vasovagal response provoked by sublingual nitroglycerine in routine tilt testing. <i>Clinical Science</i> , 2007, 113, 329-337.	1.8	51
38	Variability in Cardiovascular Control: The Baroreflex Reconsidered. <i>Cardiovascular Engineering</i> (Dordrecht, Netherlands), 2008, 8, 23-29.	1.0	50
39	Autonomic integration: the physiological basis of cardiovascular variability. <i>Journal of Physiology</i> , 1999, 517, 316-316.	1.3	49
40	Dynamic adaptation of cardiac baroreflex sensitivity to prolonged exposure to microgravity: data from a 16-day spaceflight. <i>Journal of Applied Physiology</i> , 2008, 105, 1569-1575.	1.2	49
41	Serial assessment of cardiovascular control shows early signs of developing pre-eclampsia. <i>Journal of Hypertension</i> , 2004, 22, 369-376.	0.3	46
42	Noninvasive assessment of autonomic cardiovascular control in normal human pregnancy and pregnancy-associated hypertensive disorders. <i>Journal of Hypertension</i> , 2002, 20, 2111-2119.	0.3	45
43	Baroreflex failure following radiation therapy for nasopharyngeal carcinoma. <i>Clinical Autonomic Research</i> , 1999, 9, 317-324.	1.4	43
44	Neural Circulatory Control in Vasovagal Syncope. <i>PACE - Pacing and Clinical Electrophysiology</i> , 1997, 20, 753-763.	0.5	41
45	Tension Transients after Quick Release in Rat and Frog Skeletal Muscles. <i>Nature</i> , 1972, 237, 281-282.	13.7	40
46	Mathematical modeling of gravitational effects on the circulation: importance of the time course of venous pooling and blood volume changes in the lungs. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2006, 291, H2152-H2165.	1.5	40
47	Noninvasive cardiac output monitoring during exercise testing: Nexfin pulse contour analysis compared to an inert gas rebreathing method and respired gas analysis. <i>Journal of Clinical Monitoring and Computing</i> , 2011, 25, 315-321.	0.7	39
48	Changes in finger-aorta pressure transfer function during and after exercise. <i>Journal of Applied Physiology</i> , 2006, 101, 1207-1214.	1.2	38
49	Cardiovascular Responses to Stress after Carotid Baroreceptor Denervation in Humans. <i>Annals of the New York Academy of Sciences</i> , 2004, 1018, 515-519.	1.8	36
50	Blood pressure and heart rate responses to sudden changes of gravity during exercise. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 1996, 270, H2132-H2142.	1.5	33
51	Assessing the Sensitivity of Spontaneous Baroreflex Control of the Heart: Deeper Insight Into Complex Physiology. <i>Hypertension</i> , 2004, 43, e32-4; author reply e32-4.	1.3	33
52	Orthostatic blood pressure control before and after spaceflight, determined by time-domain baroreflex method. <i>Journal of Applied Physiology</i> , 2005, 98, 1682-1690.	1.2	33
53	Effects of Neonatal Dexamethasone Treatment on the Cardiovascular Stress Response of Children at School Age. <i>Pediatrics</i> , 2008, 122, 978-987.	1.0	33
54	The microcirculatory response to compensated hypovolemia in a lower body negative pressure model. <i>Microvascular Research</i> , 2011, 82, 374-380.	1.1	32

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55	Respiratory variability and associated cardiovascular changes in adults at rest. <i>Clinical Physiology</i> , 1991, 11, 95-118.	0.7	30
56	Baroreflex Control of Muscle Sympathetic Nerve Activity After Carotid Body Tumor Resection. <i>Hypertension</i> , 2003, 42, 143-149.	1.3	30
57	Simultaneous multi-depth assessment of tissue oxygen saturation in the hand and forearm using near-infrared spectroscopy during a simple cardiovascular challenge. <i>Critical Care</i> , 2009, 13, S5.	2.5	30
58	Initial circulatory responses to changes in posture: influence of the angle and speed of tilt. <i>Clinical Physiology</i> , 1991, 11, 211-220.	0.7	27
59	Validity and variability of xBRS: instantaneous cardiac baroreflex sensitivity. <i>Physiological Reports</i> , 2017, 5, e13509.	0.7	27
60	Measurement of heart rate and blood pressure to evaluate disturbances in neurocardiovascular control. , 2013, , 290-306.		27
61	Islet-cell dysfunction induced by glucocorticoid treatment: potential role for altered sympathovagal balance?. <i>Metabolism: Clinical and Experimental</i> , 2013, 62, 568-577.	1.5	26
62	Elasticity as an expression of cross-bridge activity in rat muscle. <i>Pflugers Archiv European Journal of Physiology</i> , 1972, 336, 277-288.	1.3	25
63	Thoracic sympathectomy: effects on hemodynamics and baroreflex control. <i>Clinical Autonomic Research</i> , 2002, 12, 35-42.	1.4	25
64	Arterial baroreflex and peripheral chemoreflex function after radiotherapy for laryngeal or pharyngeal cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2002, 53, 1203-1210.	0.4	25
65	Prolongation of atrioventricular conduction time by electrical stimulation of the carotid sinus nerves in man.. <i>Circulation</i> , 1982, 65, 432-434.	1.6	24
66	Doppler evaluation of cardiac filling and ejection properties in humans during parabolic flight. <i>Journal of Applied Physiology</i> , 1994, 76, 2621-2626.	1.2	24
67	Heart rate variability: why do spectral analysis?. <i>Heart</i> , 1997, 77, 99-101.	1.2	24
68	Effects of treatment of obstructive sleep apnea on circadian hemodynamics. <i>Journal of the Autonomic Nervous System</i> , 1999, 77, 177-183.	1.9	24
69	The siphon controversy: an integration of concepts and the brain as baffle. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2005, 289, R627-R629.	0.9	22
70	Circulatory responses to stand up: discrimination between the effects of respiration, orthostasis and exercise. <i>Clinical Physiology</i> , 1991, 11, 221-230.	0.7	21
71	Pathophysiological Mechanisms Underlying Vasovagal Syncope in Young Subjects. <i>PACE - Pacing and Clinical Electrophysiology</i> , 1997, 20, 2034-2038.	0.5	21
72	Clinical Approach to Cardiovascular Reflex Testing. <i>Clinical Science</i> , 1996, 91, 108-112.	0.0	20

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73	Noninvasive cardiac output measurement in orthostasis: pulse contour analysis compared with acetylene rebreathing. <i>Journal of Applied Physiology</i> , 1999, 87, 2266-2273.	1.2	20
74	24-h blood pressure in Space: The dark side of being an astronaut. <i>Respiratory Physiology and Neurobiology</i> , 2009, 169, S55-S58.	0.7	20
75	The effect of oxprenolol dosage time on its pharmacokinetics and haemodynamic effects during exercise in man. <i>European Journal of Clinical Pharmacology</i> , 1993, 44, 171-176.	0.8	19
76	Heart rate variability: a telltale of health or disease. <i>European Heart Journal</i> , 2000, 21, 435-437.	1.0	19
77	Effect of clonidine on cardiac baroreflex delay in humans and rats. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2011, 300, R949-R957.	0.9	19
78	Frequency limitation in the human baroreceptor reflex. <i>Journal of the Autonomic Nervous System</i> , 1983, 9, 381-397.	1.9	17
79	Last Word on Point:Counterpoint: Respiratory sinus arrhythmia is due to a central mechanism vs. respiratory sinus arrhythmia is due to the baroreflex mechanism. <i>Journal of Applied Physiology</i> , 2009, 106, 1750-1750.	1.2	17
80	The psychophysiology of medical communication. Linking two worlds of research. <i>Patient Education and Counseling</i> , 2011, 84, 420-427.	1.0	17
81	Orthostatic intolerance after space flight. <i>Journal of Physiology</i> , 2002, 538, 1-1.	1.3	16
82	Increased Sympathetic Activity Present in Early Hypertensive Pregnancy is Not Lowered by Plasma Volume Expansion. <i>Hypertension in Pregnancy</i> , 2006, 25, 143-157.	0.5	16
83	Cross-Wavelet Time-Frequency Analysis Reveals Sympathetic Contribution to Baroreflex Sensitivity as Cause of Variable Phase Delay Between Blood Pressure and Heart Rate. <i>Frontiers in Neuroscience</i> , 2019, 13, 694.	1.4	16
84	Circadian blood pressure and systemic haemodynamics during 42 days of 6° head-down tilt. <i>Acta Physiologica Scandinavica</i> , 1997, 161, 71-80.	2.3	13
85	Arterial stiffness, endothelial function and microcirculatory reactivity in healthy young males. <i>Clinical Physiology and Functional Imaging</i> , 2008, 28, 299-306.	0.5	13
86	The validity and reproducibility of the skin vasomotor test studies in normal subjects, after spinal anaesthesia, and in diabetes mellitus. <i>Clinical Autonomic Research</i> , 1993, 3, 319-324.	1.4	12
87	On the Quantification of Heart Rate Changes in Autonomic Function Tests: Relations between Measures in Beats per Minute, Seconds and Dimensionless Ratios. <i>Clinical Science</i> , 1995, 89, 557-564.	1.8	12
88	Search for HRV-parameters that detect a sympathetic shift in heart failure patients on $\beta$ -blocker treatment. <i>Frontiers in Physiology</i> , 2013, 4, 81.	1.3	12
89	The role of carotid chemoreceptors in the sympathetic activation by adenosine in humans. <i>Clinical Science</i> , 2004, 106, 75-82.	1.8	11
90	Hemodynamic mechanisms underlying prolonged post-faint hypotension. <i>Clinical Autonomic Research</i> , 2011, 21, 405-413.	1.4	11

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91	Bridging cardiovascular physics, physiology, and clinical practice: Karel H. Wesseling, pioneer of continuous noninvasive hemodynamic monitoring. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2015, 308, H153-H156.	1.5	11
92	Pharmacokinetic-pharmacodynamic modelling of oxprenolol in man using continuous non-invasive blood pressure monitoring. <i>European Journal of Clinical Pharmacology</i> , 1988, 34, 395-400.	0.8	10
93	Prolonged post-faint hypotension can be reversed by dynamic tension. <i>Clinical Autonomic Research</i> , 2011, 21, 415-418.	1.4	10
94	Aortic pressure wave reconstruction during exercise is improved by adaptive filtering: a pilot study. <i>Medical and Biological Engineering and Computing</i> , 2011, 49, 909-916.	1.6	10
95	Slow sinusoidal tilt movements demonstrate the contribution to orthostatic tolerance of cerebrospinal fluid movement to and from the spinal dural space. <i>Physiological Reports</i> , 2019, 7, e14001.	0.7	10
96	Baroreflex sensitivity is higher during acute psychological stress in healthy subjects under $\beta_2$ -adrenergic blockade. <i>Clinical Science</i> , 2011, 120, 161-167.	1.8	9
97	Abdominal counter pressure in CPR: What about the lungs? An in silico study. <i>Resuscitation</i> , 2012, 83, 1271-1276.	1.3	9
98	Tracking of cardiac output from arterial pulse wave. <i>Clinical Science</i> , 2003, 104, 239.	1.8	9
99	Interpretation of Heart Rate Variability: The Art of Looking Through a Keyhole. <i>Frontiers in Neuroscience</i> , 2020, 14, 609570.	1.4	8
100	How the vagus nerve produces beat-to-beat heart rate variability; experiments in rabbits to mimic in vivo vagal patterns. <i>Journal of Clinical and Translational Research</i> , 2015, 1, 190-204.	0.3	8
101	Inflating one's own cuff does not increase self-recorded blood pressure. <i>Journal of Hypertension</i> , 1988, 6, S77-78.	0.3	7
102	Why do we measure baroreflex sensitivity the way we do?. <i>Clinical Autonomic Research</i> , 2002, 12, 427-428.	1.4	7
103	Uncomplicated human type 2 diabetes is associated with meal-induced blood pressure lowering and cardiac output increase. <i>Diabetes Research and Clinical Practice</i> , 2014, 106, 617-626.	1.1	7
104	Prenatal Undernutrition and Autonomic Function in Adulthood. <i>Psychosomatic Medicine</i> , 2016, 78, 991-997.	1.3	7
105	Vagal baroreflex latency in circulatory control. <i>Journal of Physiology</i> , 2017, 595, 2197-2198.	1.3	7
106	Estimation of Intraglomerular Pressure Using Invasive Renal Arterial Pressure and Flow Velocity Measurements in Humans. <i>Journal of the American Society of Nephrology: JASN</i> , 2020, 31, 1905-1914.	3.0	7
107	Brown and Eccles' Depiction of Vagal Effects: An Old and Widely Used Method Reexamined. <i>Psychophysiology</i> , 1988, 25, 366-368.	1.2	6
108	The riddles of heart rate variability. <i>Clinical Autonomic Research</i> , 2001, 11, 65-66.	1.4	6

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109	Diabetic autonomic neuropathy: conventional cardiovascular laboratory testing and new developments. <i>Neuroscience Research Communications</i> , 1997, 21, 67-74.	0.2	5
110	Inferring vagal effects on the heart from changes in cardiac cycle length: implications for cycle time-dependency. <i>International Journal of Psychophysiology</i> , 1990, 10, 85-93.	0.5	4
111	Short-term sympathetic baroreflex sensitivity increases at lower blood pressures. <i>Clinical Neurophysiology</i> , 2008, 119, 869-879.	0.7	4
112	Merging Mathematical and Physiological Knowledge: Dimensions and Challenges. <i>Lecture Notes in Mathematics</i> , 2013, , 3-19.	0.1	4
113	An inherited sudden cardiac arrest syndrome may be based on primary myocardial and autonomic nervous system abnormalities. <i>Heart Rhythm</i> , 2022, 19, 244-251.	0.3	4
114	Tilt table design for rapid and sinusoidal posture change with minimal vestibular stimulation. <i>Aviation, Space, and Environmental Medicine</i> , 2004, 75, 1086-91.	0.6	4
115	Cardiovascular instability and baroreflex activity in a patient with tetanus. <i>Clinical Autonomic Research</i> , 1991, 1, 5-8.	1.4	3
116	Cardiovascular variability is/is not an index of autonomic control of circulation. <i>Journal of Applied Physiology</i> , 2006, 101, 1003-1003.	1.2	3
117	Rebuttal from Karemaker. <i>Journal of Applied Physiology</i> , 2009, 106, 1744-1744.	1.2	3
118	Cardiac oxygen supply is compromised during the night in hypertensive patients. <i>Medical and Biological Engineering and Computing</i> , 2011, 49, 1073-81.	1.6	3
119	Vagal effects on heart rate: Different between up and down. , 2014, , .		2
120	24-hr blood pressure in HDT-bed rest and short-lasting space flight. <i>Journal of Gravitational Physiology: A Journal of the International Society for Gravitational Physiology</i> , 2007, 14, P49-50.	0.0	2
121	Tracking of cardiac output from arterial pulse wave. <i>Clinical Science</i> , 2003, 104, 239-239.	1.8	1
122	Relations between Changes in Cardiac Parasympathetic Activity and Heart Rate Variability. , 1986, , 55-61.		1
123	ORTHOSTATIC INTOLERANCE, BLOOD PRESSURE AND ITS VARIABILITY. <i>Fundamental and Clinical Pharmacology</i> , 1998, 12, 35s-41s.	1.0	0
124	Sleep apnea syndrome as extreme condition of the respiratory control system. , 1998, , 59-63.		0
125	Cardiac vagal activity and daily clinical practice. <i>Journal of Clinical and Translational Research</i> , 2016, 2, 1-2.	0.3	0