

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 | 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 |
| 2 | Interpretation of Heart Rate Variability: The Art of Looking Through a Keyhole. <i>Frontiers in Neuroscience</i> , 2020, 14, 609570. | 1.4 | 8 |
| 3 | 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 |
| 4 | 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 |
| 5 | 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 |
| 6 | An introduction into autonomic nervous function. <i>Physiological Measurement</i> , 2017, 38, R89-R118. | 1.2 | 147 |
| 7 | Vagal baroreflex latency in circulatory control. <i>Journal of Physiology</i> , 2017, 595, 2197-2198. | 1.3 | 7 |
| 8 | Validity and variability of xBRS: instantaneous cardiac baroreflex sensitivity. <i>Physiological Reports</i> , 2017, 5, e13509. | 0.7 | 27 |
| 9 | Prenatal Undernutrition and Autonomic Function in Adulthood. <i>Psychosomatic Medicine</i> , 2016, 78, 991-997. | 1.3 | 7 |
| 10 | Autonomic Dysfunction Precedes Development of Rheumatoid Arthritis: A Prospective Cohort Study. <i>EBioMedicine</i> , 2016, 6, 231-237. | 2.7 | 80 |
| 11 | Cardiac vagal activity and daily clinical practice. <i>Journal of Clinical and Translational Research</i> , 2016, 2, 1-2. | 0.3 | 0 |
| 12 | 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 |
| 13 | 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 |
| 14 | 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 |
| 15 | Vagal effects on heart rate: Different between up and down. , 2014, , . | | 2 |
| 16 | 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 |
| 17 | Merging Mathematical and Physiological Knowledge: Dimensions and Challenges. <i>Lecture Notes in Mathematics</i> , 2013, , 3-19. | 0.1 | 4 |
| 18 | Search for HRV-parameters that detect a sympathetic shift in heart failure patients on β -blocker treatment. <i>Frontiers in Physiology</i> , 2013, 4, 81. | 1.3 | 12 |

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|----|--|-----|-----------|
| 19 | Measurement of heart rate and blood pressure to evaluate disturbances in neurocardiovascular control. , 2013, , 290-306. | | 27 |
| 20 | Abdominal counter pressure in CPR: What about the lungs? An in silico study. Resuscitation, 2012, 83, 1271-1276. | 1.3 | 9 |
| 21 | The microcirculatory response to compensated hypovolemia in a lower body negative pressure model. Microvascular Research, 2011, 82, 374-380. | 1.1 | 32 |
| 22 | Baroreflex sensitivity is higher during acute psychological stress in healthy subjects under β_2 -adrenergic blockade. Clinical Science, 2011, 120, 161-167. | 1.8 | 9 |
| 23 | The psychophysiology of medical communication. Linking two worlds of research. Patient Education and Counseling, 2011, 84, 420-427. | 1.0 | 17 |
| 24 | Noninvasive cardiac output monitoring during exercise testing: Nexfin pulse contour analysis compared to an inert gas rebreathing method and respired gas analysis. Journal of Clinical Monitoring and Computing, 2011, 25, 315-321. | 0.7 | 39 |
| 25 | Prolonged post-faint hypotension can be reversed by dynamic tension. Clinical Autonomic Research, 2011, 21, 415-418. | 1.4 | 10 |
| 26 | Hemodynamic mechanisms underlying prolonged post-faint hypotension. Clinical Autonomic Research, 2011, 21, 405-413. | 1.4 | 11 |
| 27 | Multi-site and multi-depth near-infrared spectroscopy in a model of simulated (central) hypovolemia: lower body negative pressure. Intensive Care Medicine, 2011, 37, 671-677. | 3.9 | 63 |
| 28 | Aortic pressure wave reconstruction during exercise is improved by adaptive filtering: a pilot study. Medical and Biological Engineering and Computing, 2011, 49, 909-916. | 1.6 | 10 |
| 29 | Cardiac oxygen supply is compromised during the night in hypertensive patients. Medical and Biological Engineering and Computing, 2011, 49, 1073-81. | 1.6 | 3 |
| 30 | Effect of clonidine on cardiac baroreflex delay in humans and rats. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2011, 300, R949-R957. | 0.9 | 19 |
| 31 | How stressful is doctor-patient communication? Physiological and psychological stress of medical students in simulated history taking and bad-news consultations. International Journal of Psychophysiology, 2010, 77, 26-34. | 0.5 | 90 |
| 32 | Rebuttal from Karemaker. Journal of Applied Physiology, 2009, 106, 1744-1744. | 1.2 | 3 |
| 33 | Counterpoint: Respiratory sinus arrhythmia is due to the baroreflex mechanism. Journal of Applied Physiology, 2009, 106, 1742-1743. | 1.2 | 103 |
| 34 | 24-h blood pressure in Space: The dark side of being an astronaut. Respiratory Physiology and Neurobiology, 2009, 169, S55-S58. | 0.7 | 20 |
| 35 | Simultaneous multi-depth assessment of tissue oxygen saturation in the hand and forearm using near-infrared spectroscopy during a simple cardiovascular challenge. Critical Care, 2009, 13, S5. | 2.5 | 30 |
| 36 | Last Word on Point:Counterpoint: Respiratory sinus arrhythmia is due to a central mechanism vs. respiratory sinus arrhythmia is due to the baroreflex mechanism. Journal of Applied Physiology, 2009, 106, 1750-1750. | 1.2 | 17 |

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|----|--|-----|-----------|
| 37 | Variability in Cardiovascular Control: The Baroreflex Reconsidered. <i>Cardiovascular Engineering</i> (Dordrecht, Netherlands), 2008, 8, 23-29. | 1.0 | 50 |
| 38 | 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 |
| 39 | Short-term sympathetic baroreflex sensitivity increases at lower blood pressures. <i>Clinical Neurophysiology</i> , 2008, 119, 869-879. | 0.7 | 4 |
| 40 | 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 |
| 41 | Dynamic cerebral autoregulatory capacity is affected early in Type 2 diabetes. <i>Clinical Science</i> , 2008, 115, 255-262. | 1.8 | 78 |
| 42 | 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 |
| 43 | 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 |
| 44 | 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 |
| 45 | 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 |
| 46 | Changes in finger-aorta pressure transfer function during and after exercise. <i>Journal of Applied Physiology</i> , 2006, 101, 1207-1214. | 1.2 | 38 |
| 47 | 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 |
| 48 | 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 |
| 49 | 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 |
| 50 | Quantification of Wave Reflection in the Human Aorta From Pressure Alone. <i>Hypertension</i> , 2006, 48, 595-601. | 1.3 | 267 |
| 51 | 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 |
| 52 | 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 |
| 53 | Dynamic Cerebral Autoregulation in Acute Lacunar and Middle Cerebral Artery Territory Ischemic Stroke. <i>Stroke</i> , 2005, 36, 2595-2600. | 1.0 | 175 |
| 54 | Impaired Cerebral Autoregulation in Patients With Malignant Hypertension. <i>Circulation</i> , 2004, 110, 2241-2245. | 1.6 | 218 |

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|----|--|-----|-----------|
| 55 | Comparison of various techniques used to estimate spontaneous baroreflex sensitivity (the Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf Physiology, 2004, 286, R226-R231. | 0.9 | 325 |
| 56 | Assessing the Sensitivity of Spontaneous Baroreflex Control of the Heart: Deeper Insight Into Complex Physiology. Hypertension, 2004, 43, e32-4; author reply e32-4. | 1.3 | 33 |
| 57 | Tidal volume, cardiac output and functional residual capacity determine end-tidal CO ₂ transient during standing up in humans. Journal of Physiology, 2004, 554, 579-590. | 1.3 | 70 |
| 58 | Human cerebral venous outflow pathway depends on posture and central venous pressure. Journal of Physiology, 2004, 560, 317-327. | 1.3 | 230 |
| 59 | Cardiovascular Responses to Stress after Carotid Baroreceptor Denervation in Humans. Annals of the New York Academy of Sciences, 2004, 1018, 515-519. | 1.8 | 36 |
| 60 | Long-term effects of unilateral carotid endarterectomy on arterial baroreflex function. Clinical Autonomic Research, 2004, 14, 72-79. | 1.4 | 51 |
| 61 | Use of lower abdominal compression to combat orthostatic hypotension in patients with autonomic dysfunction. Clinical Autonomic Research, 2004, 14, 167-75. | 1.4 | 115 |
| 62 | Sublingual Nitroglycerin Used in Routine Tilt Testing Provokes a Cardiac Output-Mediated Vasovagal Response. Journal of the American College of Cardiology, 2004, 44, 588-593. | 1.2 | 60 |
| 63 | Time-domain cross-correlation baroreflex sensitivity. Journal of Hypertension, 2004, 22, 1371-1380. | 0.3 | 204 |
| 64 | Serial assessment of cardiovascular control shows early signs of developing pre-eclampsia. Journal of Hypertension, 2004, 22, 369-376. | 0.3 | 46 |
| 65 | The role of carotid chemoreceptors in the sympathetic activation by adenosine in humans. Clinical Science, 2004, 106, 75-82. | 1.8 | 11 |
| 66 | Tilt table design for rapid and sinusoidal posture change with minimal vestibular stimulation. Aviation, Space, and Environmental Medicine, 2004, 75, 1086-91. | 0.6 | 4 |
| 67 | Denervation of Carotid Baro- and Chemoreceptors in Humans. Journal of Physiology, 2003, 553, 3-11. | 1.3 | 146 |
| 68 | Baroreflex Control of Muscle Sympathetic Nerve Activity After Carotid Body Tumor Resection. Hypertension, 2003, 42, 143-149. | 1.3 | 30 |
| 69 | Syncope, cerebral perfusion, and oxygenation. Journal of Applied Physiology, 2003, 94, 833-848. | 1.2 | 328 |
| 70 | Baroreflex and chemoreflex function after bilateral carotid body tumor resection. Journal of Hypertension, 2003, 21, 591-599. | 0.3 | 75 |
| 71 | Tracking of cardiac output from arterial pulse wave. Clinical Science, 2003, 104, 239-239. | 1.8 | 1 |
| 72 | Tracking of cardiac output from arterial pulse wave. Clinical Science, 2003, 104, 239. | 1.8 | 9 |

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|----|--|-----|-----------|
| 73 | Long-Term Effects of Carotid Sinus Denervation on Arterial Blood Pressure in Humans. <i>Circulation</i> , 2002, 105, 1329-1335. | 1.6 | 110 |
| 74 | 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 |
| 75 | 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 |
| 76 | Subtle involvement of the sympathetic nervous system in amyotrophic lateral sclerosis. <i>Muscle and Nerve</i> , 2002, 25, 402-408. | 1.0 | 76 |
| 77 | Why do we measure baroreflex sensitivity the way we do?. <i>Clinical Autonomic Research</i> , 2002, 12, 427-428. | 1.4 | 7 |
| 78 | Thoracic sympathectomy: effects on hemodynamics and baroreflex control. <i>Clinical Autonomic Research</i> , 2002, 12, 35-42. | 1.4 | 25 |
| 79 | Orthostatic intolerance after space flight. <i>Journal of Physiology</i> , 2002, 538, 1-1. | 1.3 | 16 |
| 80 | 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 |
| 81 | The riddles of heart rate variability. <i>Clinical Autonomic Research</i> , 2001, 11, 65-66. | 1.4 | 6 |
| 82 | Heart rate variability: a telltale of health or disease. <i>European Heart Journal</i> , 2000, 21, 435-437. | 1.0 | 19 |
| 83 | 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 |
| 84 | Autonomic integration: the physiological basis of cardiovascular variability. <i>Journal of Physiology</i> , 1999, 517, 316-316. | 1.3 | 49 |
| 85 | Baroreflex failure following radiation therapy for nasopharyngeal carcinoma. <i>Clinical Autonomic Research</i> , 1999, 9, 317-324. | 1.4 | 43 |
| 86 | 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 |
| 87 | ORTHOSTATIC INTOLERANCE, BLOOD PRESSURE AND ITS VARIABILITY. <i>Fundamental and Clinical Pharmacology</i> , 1998, 12, 35s-41s. | 1.0 | 0 |
| 88 | Sleep apnea syndrome as extreme condition of the respiratory control system. , 1998, , 59-63. | | 0 |
| 89 | Heart rate variability: why do spectral analysis?. <i>Heart</i> , 1997, 77, 99-101. | 1.2 | 24 |
| 90 | Pathophysiological Mechanisms Underlying Vasovagal Syncope in Young Subjects. <i>PACE - Pacing and Clinical Electrophysiology</i> , 1997, 20, 2034-2038. | 0.5 | 21 |

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|-----|---|-----|-----------|
| 91 | Neural Circulatory Control in Vasovagal Syncope. PACE - Pacing and Clinical Electrophysiology, 1997, 20, 753-763. | 0.5 | 41 |
| 92 | Circadian blood pressure and systemic haemodynamics during 42 days of 6° head-down tilt. Acta Physiologica Scandinavica, 1997, 161, 71-80. | 2.3 | 13 |
| 93 | Diabetic autonomic neuropathy: conventional cardiovascular laboratory testing and new developments. Neuroscience Research Communications, 1997, 21, 67-74. | 0.2 | 5 |
| 94 | Blood pressure and heart rate responses to sudden changes of gravity during exercise. American Journal of Physiology - Heart and Circulatory Physiology, 1996, 270, H2132-H2142. | 1.5 | 33 |
| 95 | Clinical Approach to Cardiovascular Reflex Testing. Clinical Science, 1996, 91, 108-112. | 0.0 | 20 |
| 96 | On the Quantification of Heart Rate Changes in Autonomic Function Tests: Relations between Measures in Beats per Minute, Seconds and Dimensionless Ratios. Clinical Science, 1995, 89, 557-564. | 1.8 | 12 |
| 97 | Doppler evaluation of cardiac filling and ejection properties in humans during parabolic flight. Journal of Applied Physiology, 1994, 76, 2621-2626. | 1.2 | 24 |
| 98 | Effects of aging on blood pressure variability in resting conditions.. Hypertension, 1994, 24, 120-130. | 1.3 | 92 |
| 99 | The effect of oxprenolol dosage time on its pharmacokinetics and haemodynamic effects during exercise in man. European Journal of Clinical Pharmacology, 1993, 44, 171-176. | 0.8 | 19 |
| 100 | Effects of thiopentone, etomidate and propofol on beat-to-beat cardiovascular signals in man. Anaesthesia, 1993, 48, 849-855. | 1.8 | 61 |
| 101 | The validity and reproducibility of the skin vasomotor test studies in normal subjects, after spinal anaesthesia, and in diabetes mellitus. Clinical Autonomic Research, 1993, 3, 319-324. | 1.4 | 12 |
| 102 | Noninvasive cardiac output measurement by arterial pulse analysis compared with inert gas rebreathing. Journal of Applied Physiology, 1993, 74, 2687-2693. | 1.2 | 91 |
| 103 | Repetitive apneas induce periodic hypertension in normal subjects through hypoxia. Journal of Applied Physiology, 1992, 72, 821-827. | 1.2 | 75 |
| 104 | Respiratory variability and associated cardiovascular changes in adults at rest. Clinical Physiology, 1991, 11, 95-118. | 0.7 | 30 |
| 105 | Initial circulatory responses to changes in posture: influence of the angle and speed of tilt. Clinical Physiology, 1991, 11, 211-220. | 0.7 | 27 |
| 106 | Circulatory responses to stand up: discrimination between the effects of respiration, orthostasis and exercise. Clinical Physiology, 1991, 11, 221-230. | 0.7 | 21 |
| 107 | The vasovagal response. Clinical Science, 1991, 81, 575-586. | 1.8 | 311 |
| 108 | Cardiovascular instability and baroreflex activity in a patient with tetanus. Clinical Autonomic Research, 1991, 1, 5-8. | 1.4 | 3 |

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|-----|---|------|-----------|
| 109 | 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 |
| 110 | Circumstances surrounding aneurysmal subarachnoid hemorrhage. <i>World Neurosurgery</i> , 1989, 32, 266-272. | 1.3 | 76 |
| 111 | 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 |
| 112 | Brown and Eccles' Depiction of Vagal Effects: An Old and Widely Used Method Reexamined. <i>Psychophysiology</i> , 1988, 25, 366-368. | 1.2 | 6 |
| 113 | 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 |
| 114 | Inflating one's own cuff does not increase self-recorded blood pressure. <i>Journal of Hypertension</i> , 1988, 6, S77-78. | 0.3 | 7 |
| 115 | Relations between Changes in Cardiac Parasympathetic Activity and Heart Rate Variability. , 1986, , 55-61. | | 1 |
| 116 | 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 |
| 117 | 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 |
| 118 | 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 |
| 119 | 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 |
| 120 | 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 |
| 121 | Frequency limitation in the human baroreceptor reflex. <i>Journal of the Autonomic Nervous System</i> , 1983, 9, 381-397. | 1.9 | 17 |
| 122 | Time delays in the human baroreceptor reflex. <i>Journal of the Autonomic Nervous System</i> , 1983, 9, 399-409. | 1.9 | 138 |
| 123 | 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 |
| 124 | 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 |
| 125 | Tension Transients after Quick Release in Rat and Frog Skeletal Muscles. <i>Nature</i> , 1972, 237, 281-282. | 13.7 | 40 |