Ole M Sejersted

List of Publications by Year
in descending order

132 papers	5,382 citations	66234 42 h-index	95083 68 g-index
133 all docs	133 docs citations	133 times ranked	4608 citing authors

#	Article	IF	Citations
1	Dynamics and Consequences of Potassium Shifts in Skeletal Muscle and Heart During Exercise. Physiological Reviews, 2000, 80, 1411-1481.	13.1	403
2	T-tubule disorganization and reduced synchrony of Ca2+release in murine cardiomyocytes following myocardial infarction. Journal of Physiology, 2006, 574, 519-533.	1.3	227
3	Magnitude and duration of excess postexercise oxygen consumption in healthy young subjects. Metabolism: Clinical and Experimental, 1986, 35, 425-429.	1.5	157
4	Local Regulation of Vascular Cross Section during Changes in Femoral Arterial Blood Flow in Dogs. Circulation Research, 1970, 27, 727-737.	2.0	144
5	Echocardiographic criteria for detection of postinfarction congestive heart failure in rats. Journal of Applied Physiology, 2000, 89, 1445-1454.	1.2	135
6	Biochemical correlates of fatigue. European Journal of Applied Physiology and Occupational Physiology, 1988, 57, 336-347.	1.2	133
7	Moderate heart dysfunction in mice with inducible cardiomyocyte-specific excision of the Serca2 gene. Journal of Molecular and Cellular Cardiology, 2009, 47, 180-187.	0.9	128
8	Formate Concentrations in Plasma from Patients Poisoned with Methanol. Acta Medica Scandinavica, 1983, 213, 105-110.	0.0	123
9	Glycolate Causes the Acidosis in Ethylene Glycol Poisoning and is Effectively Removed by Hemodialysis. Acta Medica Scandinavica, 1984, 216, 409-416.	0.0	114
10	Influence of plasma potassium concentration on the capacity for sodium reabsorption in the diluting segment of the kidney. Scandinavian Journal of Clinical and Laboratory Investigation, 1980, 40, 27-36.	0.6	113
11	Effect of intensity of exercise on excess postexercise O2 consumption. Metabolism: Clinical and Experimental, 1991, 40, 836-841.	1.5	99
12	Acidâ€base and electrolyte balance after exhausting exercise in enduranceâ€trained and sprintâ€trained subjects. Acta Physiologica Scandinavica, 1985, 125, 97-109.	2.3	96
13	Triglyceride/fatty acid cycling is increased after exercise. Metabolism: Clinical and Experimental, 1990, 39, 993-999.	1.5	95
14	Elevated ventricular wall stress disrupts cardiomyocyte t-tubule structure and calcium homeostasis. Cardiovascular Research, 2016, 112, 443-451.	1.8	94
15	Localization and function of the Na+/Ca2+-exchanger in normal and detubulated rat cardiomyocytes. Journal of Molecular and Cellular Cardiology, 2003, 35, 1325-1337.	0.9	86
16	Sodium accumulation promotes diastolic dysfunction in end-stage heart failure following<i>Serca2</i>knockout. Journal of Physiology, 2010, 588, 465-478.	1.3	85
17	There Goes the Neighborhood: Pathological Alterations in T-Tubule Morphology and Consequences for Cardiomyocyte Handling. Journal of Biomedicine and Biotechnology, 2010, 2010, 1-17.	3.0	85
18	Ryanodine receptor dispersion disrupts Ca2+ release in failing cardiac myocytes. ELife, 2018, 7, .	2.8	84

#	Article	IF	Citations
19	Altered Na+/Ca2+-exchanger activity due to downregulation of Na+/K+-ATPase Â2-isoform in heart failure. Cardiovascular Research, 2008, 78, 71-78.	1.8	82
20	Reference gene alternatives to Gapdh in rodent and human heart failure gene expression studies. BMC Molecular Biology, 2010, 11, 22.	3.0	80
21	Variable t-tubule organization and Ca2+ homeostasis across the atria. American Journal of Physiology - Heart and Circulatory Physiology, 2014, 307, H609-H620.	1.5	80
22	Reduced Myocardial Na+, K+-pump Capacity in Congestive Heart Failure Following Myocardial Infarction in Rats. Journal of Molecular and Cellular Cardiology, 1998, 30, 1311-1328.	0.9	79
23	Upregulation of the Cardiac Monocarboxylate Transporter MCT1 in a Rat Model of Congestive Heart Failure. Circulation, 2001, 104, 729-734.	1.6	76
24	Appearance of a ventricular 5-HT receptor-mediated inotropic response to serotonin in heart failure. Cardiovascular Research, 2005, 65, 869-878.	1.8	73
25	The Na+/K+-ATPase Î±2-isoform regulates cardiac contractility in rat cardiomyocytes. Cardiovascular Research, 2007, 75, 109-117.	1.8	73
26	An analysis of deformationâ€dependent electromechanical coupling in the mouse heart. Journal of Physiology, 2012, 590, 4553-4569.	1.3	73
27	Increased cardiac expression of endothelin-1 mRNA in ischemic heart failure in rats. Cardiovascular Research, 1997, 33, 601-610.	1.8	67
28	No Rest for the Weary: Diastolic Calcium Homeostasis in the Normal and Failing Myocardium. Physiology, 2012, 27, 308-323.	1.6	64
29	Contraction and Intracellular Ca ²⁺ Handling in Isolated Skeletal Muscle of Rats With Congestive Heart Failure. Circulation Research, 2001, 88, 1299-1305.	2.0	62
30	Effect of supramaximal exercise on excess postexercise O2 consumption. Medicine and Science in Sports and Exercise, 1992, 24, 66???71.	0.2	60
31	Slow Ca2+ sparks de-synchronize Ca2+ release in failing cardiomyocytes: Evidence for altered configuration of Ca2+ release units?. Journal of Molecular and Cellular Cardiology, 2013, 58, 41-52.	0.9	59
32	Contribution of the Na+/Ca2+ Exchanger to Rapid Ca2+ Release in Cardiomyocytes. Biophysical Journal, 2006, 91, 779-792.	0.2	57
33	Extreme sarcoplasmic reticulum volume loss and compensatory T-tubule remodeling after <i>Serca2</i> knockout. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 3997-4001.	3.3	56
34	Increased passive stiffness promotes diastolic dysfunction despite improved Ca2+ handling during left ventricular concentric hypertrophy. Cardiovascular Research, 2017, 113, 1161-1172.	1.8	54
35	Mechanisms of Cardiomyocyte Dysfunction in Heart Failure Following Myocardial Infarction in Rats. Journal of Molecular and Cellular Cardiology, 1998, 30, 1581-1593.	0.9	53
36	Heart failure â€“ a challenge to our current concepts of excitationâ€“contraction coupling. Journal of Physiology, 2003, 546, 33-47.	1.3	50

#	Article	IF	Citations
37	Dual Serotonergic Regulation of Ventricular Contractile Force Through 5-HT2Aand 5-HT4Receptors Induced in the Acute Failing Heart. Circulation Research, 2005, 97, 268-276.	2.0	50
38	Slowing of cardiomyocyte Ca2+ release and contraction during heart failure progression in postinfarction mice. American Journal of Physiology - Heart and Circulatory Physiology, 2009, 296, H1069-H1079.	1.5	46
39	Reduced SERCA2 abundance decreases the propensity for Ca2+ wave development in ventricular myocytes. Cardiovascular Research, 2010, 86, 63-71.	1.8	46
40	Deranged sodium to sudden death. Journal of Physiology, 2015, 593, 1331-1345.	1.3	46
41	Serotonin responsiveness through 5-HT2A and 5-HT4 receptors is differentially regulated in hypertrophic and failing rat cardiac ventricle. Journal of Molecular and Cellular Cardiology, 2007, 43, 767-779.	0.9	44
42	Increased cardiomyocyte function and Ca2+ transients in mice during early congestive heart failure. Journal of Molecular and Cellular Cardiology, 2007, 43, 177-186.	0.9	43
43	Monocyte chemoattractant protein-1 enhances and interleukin-10 suppresses the production of inflammatory cytokines in adult rat cardiomyocytes. Basic Research in Cardiology, 2001, 96, 345-352.	2.5	42
44	Cellular and Subcellular Expression of the Monocarboxylate Transporter MCT1 in Rat Heart. Circulation Research, 1997, 80, 400-407.	2.0	42
45	Thyroid Hormone Control of Contraction and the Ca2+-ATPase/phospholamban Complex in Adult Rat Ventricular Myocytes. Journal of Molecular and Cellular Cardiology, 1999, 31, 645-656.	0.9	41
46	Control of Ca2+ Release by Action Potential Configuration in Normal and Failing Murine Cardiomyocytes. Biophysical Journal, 2010, 99, 1377-1386.	0.2	41
47	Slow diffusion of K+ in the T tubules of rat cardiomyocytes. Journal of Applied Physiology, 2006, 101, 1170-1176.	1.2	40
48	Sodium Accumulation in SERCA Knockout-Induced Heart Failure. Biophysical Journal, 2012, 102, 2039-2048.	0.2	39
49	Synchrony of Cardiomyocyte Ca2+ Release is Controlled by t-tubule Organization, SR Ca2+ Content, and Ryanodine Receptor Ca2+ Sensitivity. Biophysical Journal, 2013, 104, 1685-1697.	0.2	39
50	Toxicokinetics of Formate during Hemodialysis. Acta Medica Scandinavica, 1983, 214, 409-412.	0.0	37
51	The effect of acute <i>vs</i> chronic treatment with Pâ€“adrenoceptor blockade on exercise performance, haemodynamic and metabolic parameters in healthy men and women. British Journal of Clinical Pharmacology, 1996, 41, 57-67.	1.1	36
52	Slow contractions characterize failing rat hearts. Basic Research in Cardiology, 2008, 103, 328-344.	2.5	35
53	Functional coupling of Î±2-isoform Na+/K+-ATPase and Ca2+ extrusion through the Na+/Ca2+-exchanger in cardiomyocytes. Cell Calcium, 2010, 48, 54-60.	1.1	35
54	Increased Synthesis and Release of Endothelin-1 during the Initial Phase of Airway Inflammation. American Journal of Respiratory and Critical Care Medicine, 1998, 158, 1600-1606.	2.5	34

#	Article	IF	Citations
55	Cre-loxP DNA recombination is possible with only minimal unspecific transcriptional changes and without cardiomyopathy in Tg(Î±MHC-MerCreMer) mice. American Journal of Physiology - Heart and Circulatory Physiology, 2010, 299, H1671-H1678.	1.5	34
56	Effects of Congestive Heart Failure on Ca 2+ Handling in Skeletal Muscle During Fatigue. Circulation Research, 2006, 98, 1514-1519.	2.0	33
57	Frequency-dependent and proarrhythmogenic effects of FK-506 in rat ventricular cells. American Journal of Physiology - Heart and Circulatory Physiology, 2005, 288, H778-H786.	1.5	32
58	Effects of treatment with a 5-HT4 receptor antagonist in heart failure. British Journal of Pharmacology, 2007, 150, 143-152.	2.7	32
59	Pulmonary and cardiac expression of preproendothelin-1 mRNA are increased in heart failure after myocardial infarction in rats. Localization of preproendothelin-1 mRNA and endothelin peptide. Cardiovascular Research, 1998, 39, 633-643.	1.8	31
60	Hypokalemia Promotes Arrhythmia by Distinct Mechanisms in Atrial and Ventricular Myocytes. Circulation Research, 2020, 126, 889-906.	2.0	31
61	Contractile properties of in situ perfused skeletal muscles from rats with congestive heart failure. Journal of Physiology, 2002, 540, 571-580.	1.3	29
62	Mice carrying a conditional Serca2flox allele for the generation of Ca2+ handling-deficient mouse models. Cell Calcium, 2009, 46, 219-225.	1.1	27
63	ROS-Mediated Decline in Maximum Ca2+-Activated Force in Rat Skeletal Muscle Fibers following In Vitro and In Vivo Stimulation. PLoS ONE, 2012, 7, e35226.	1.1	27
64	AKAP18Î´ Anchors and Regulates CaMKII Activity at Phospholamban-SERCA2 and RYR. Circulation Research, 2022, 130, 27-44.	2.0	27
65	Effect of Î²-adrenoceptor blockade on post-exercise oxygen consumption. Metabolism: Clinical and Experimental, 1994, 43, 565-571.	1.5	26
66	Altered E-C coupling in rat ventricular myocytes from failing hearts 6 wk after MI. American Journal of Physiology - Heart and Circulatory Physiology, 2000, 279, H798-H807.	1.5	26
67	Full-length cardiac Na⁺/Ca²⁺ exchanger 1 protein is not phosphorylated by protein kinase A. American Journal of Physiology - Cell Physiology, 2011, 300, C989-C997.	2.1	26
68	Muscle contractile properties during intermittent nontetanic stimulation in rat skeletal muscle. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2001, 281, R1952-R1965.	0.9	25
69	Ca2+ wave probability is determined by the balance between SERCA2-dependent Ca2+ reuptake and threshold SR Ca2+ content. Cardiovascular Research, 2011, 90, 503-512.	1.8	25
70	A model for quantitative sampling of myocardial venous blood in the pig. Acta Physiologica Scandinavica, 1983, 119, 187-195.	2.3	24
71	Regional diastolic dysfunction in post-infarction heart failure: role of local mechanical load and SERCA expression. Cardiovascular Research, 2019, 115, 752-764.	1.8	22
72	Myasthenia gravis sera containing antiryanodine receptor antibodies inhibit binding of [3H]-ryanodine to sacroplasmic reticulum. , 1998, 21, 329-335.		21

#	Article	IF	Citations
73	EC-coupling in normal and failing hearts. Scandinavian Cardiovascular Journal, 2005, 39, 13-23.	0.4	21
74	Serotonin increases L-type Ca2+ current and SR Ca2+ content through 5-HT4 receptors in failing rat ventricular cardiomyocytes. American Journal of Physiology - Heart and Circulatory Physiology, 2007, 293, H2367-H2376.	1.5	20
75	Training Effects on Skeletal Muscle Calcium Handling in Human Chronic Heart Failure. Medicine and Science in Sports and Exercise, 2010, 42, 847-855.	0.2	19
76	Causes of fatigue in slow-twitch rat skeletal muscle during dynamic activity. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2009, 297, R900-R910.	0.9	18
77	Energetics and specificity of transcellular NaCl transport in the dog kidney. International Journal of Biochemistry & Cell Biology, 1980, 12, 245-250.	0.8	17
78	Renal venous and urinary PGE₂ output during intrarenal arachidonic acid infusion in dogs. Acta Physiologica Scandinavica, 1984, 121, 249-259.	2.3	17
79	Occupational muscle pain and injury; scientific challenge. European Journal of Applied Physiology and Occupational Physiology, 1988, 57, 271-274.	1.2	17
80	Beta-Adrenergic Stimulation Maintains Cardiac Function in Serca2 Knockout Mice. Biophysical Journal, 2013, 104, 1349-1356.	0.2	17
81	Relationship between PGE₂ and renin release in dog kidneys Effects of afferent arteriolar dilation and adrenergic stimulation. Acta Physiologica Scandinavica, 1984, 121, 261-268.	2.3	16
82	Regional Dysfunction After Myocardial Infarction in Rats. Circulation: Cardiovascular Imaging, 2017, 10, .	1.3	16
83	Ca2+-Clock-Dependent Pacemaking in the Sinus Node Is Impaired in Mice with a Cardiac Specific Reduction in SERCA2 Abundance. Frontiers in Physiology, 2016, 7, 197.	1.3	15
84	Arrhythmia initiation in catecholaminergic polymorphic ventricular tachycardia type 1 depends on both heart rate and sympathetic stimulation. PLoS ONE, 2018, 13, e0207100.	1.1	15
85	Functional differences of ouabain and ethacrynic acid on renal potassium metabolism in dogs. Scandinavian Journal of Clinical and Laboratory Investigation, 1978, 38, 603-614.	0.6	14
86	Normal contractions triggered by I Ca,L in ventricular myocytes from rats with postinfarction CHF. American Journal of Physiology - Heart and Circulatory Physiology, 2002, 283, H1225-H1236.	1.5	14
87	Enhanced matrix metalloproteinase activity in skeletal muscles of rats with congestive heart failure. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2005, 289, R389-R394.	0.9	14
88	Determination of ionic metabolites from ethylene glycol in human blood by isotachophoresis. Biomedical Applications, 1987, 416, 111-117.	1.7	13
89	Cross-reinnervation changes the expression patterns of the monocarboxylate transporters 1 and 4: An experimental study in slow and fast rat skeletal muscle. Neuroscience, 2006, 138, 1105-1113.	1.1	13
90	Separate mechanisms cause anemia in ischemic vs. nonischemic murine heart failure. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2010, 298, R808-R814.	0.9	13

#	Article	IF	Citations
91	Calcium controls cardiac function â€“ by all means!. Journal of Physiology, 2011, 589, 2919-2920.	1.3	13
92	Exercise training increases protein O-GlcNAcylation in rat skeletal muscle. Physiological Reports, 2016, 4, e12896.	0.7	12
93	Temporary fatigue and altered extracellular matrix in skeletal muscle during progression of heart failure in rats. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2009, 297, R26-R33.	0.9	11
94	Increased Erythrocyte Magnesium in Never Treated Essential Hypertension. American Journal of Hypertension, 1990, 3, 573-575.	1.0	10
95	Artifactual contractions triggered by field stimulation of cardiomyocytes. Journal of Applied Physiology, 2005, 98, 1712-1719.	1.2	10
96	High-intensity exercise training in mice with cardiomyocyte-specific disruption of <i>Serca2</i>. Journal of Applied Physiology, 2010, 108, 1311-1320.	1.2	10
97	Integrating multi-scale data to create a virtual physiological mouse heart. Interface Focus, 2013, 3, 20120076.	1.5	10
98	Carvedilol blockade of Î±1- and Î²-adrenoceptor induced inotropic responses in rats with congestive heart failure. European Journal of Pharmacology, 2005, 516, 51-59.	1.7	9
99	Slowed relaxation and preserved maximal force in soleus muscles of mice with targeted disruption of the <i>Serca2</i> gene in skeletal muscle. Journal of Physiology, 2011, 589, 6139-6155.	1.3	9
100	I CaL inhibition prevents arrhythmogenic Ca2+ waves caused by abnormal Ca2+ sensitivity of RyR or SR Ca2+ accumulation. Cardiovascular Research, 2013, 98, 315-325.	1.8	9
101	Renal Naâ€Kâ€ATPase Activity during Saline Infusion in the Rabbit. Acta Physiologica Scandinavica, 1977, 99, 323-335.	2.3	8
102	Estimation of ouabian specifically bound to dog renal (Na+ + K+)-ATPase in vivo. Biochimica Et Biophysica Acta - General Subjects, 1979, 586, 330-340.	1.1	8
103	Multiple Causes of Fatigue during Shortening Contractions in Rat Slow Twitch Skeletal Muscle. PLoS ONE, 2013, 8, e71700.	1.1	8
104	Attenuated Fatigue in Slow Twitch Skeletal Muscle during Isotonic Exercise in Rats with Chronic Heart Failure. PLoS ONE, 2011, 6, e22695.	1.1	8
105	Na,K Homeostasis of Skeletal Muscle during Activation. Medicine and Sport Science, 1987, 26, 1-11.	1.4	7
106	Oxygen requirement of renal Na-K-ATPase-dependent sodium reabsorption. American Journal of Physiology - Renal Physiology, 1977, 232, F152-F158.	1.3	7
107	Lack of stimulation of renal (Na+ + K+)-ATPase by thyroid hormones in the rabbit. Biochimica Et Biophysica Acta - General Subjects, 1982, 717, 163-174.	1.1	7
108	Inhibition of transcellular NaCl reabsorption in dog kidneys during hypercalcemia. Acta Physiologica Scandinavica, 1984, 120, 543-549.	2.3	7

#	Article	IF	Citations
109	Dependency of renal potassium excretion on Na, Kâ€ATPase transport rate. Acta Physiologica Scandinavica, 1985, 123, 9-19.	2.3	7
110	Effects of digitoxin and hypokalaemia on pancreatic NaHCO₃ secretion and pancreatic Na, Kâ€ATPase activity. Acta Physiologica Scandinavica, 1985, 124, 71-80.	2.3	7
111	Haemodynamic conditions for renal PGE₂ and renin release during Î±â€•and Î²â€adrenergic stimulation in dogs. Acta Physiologica Scandinavica, 1985, 124, 163-172.	2.3	7
112	Electromyographic activation and proportion of fast versus slow twitch muscle fibers: A genetic disposition for psychogenic muscle tension?. International Journal of Psychophysiology, 1993, 15, 43-49.	0.5	7
113	Cardiomyocytes from postinfarction failing rat hearts have improved ischemia tolerance. American Journal of Physiology - Heart and Circulatory Physiology, 2009, 296, H787-H795.	1.5	7
114	Glycolate Causes the Acidosis in Ethylene Glycol Poisoning and is Effectively Removed by Hemodialysis. Acta Medica Scandinavica, 1984, 216, 409-416.	0.0	7
115	Exhausting treadmill running causes dephosphorylation of sMLC2 and reduced level of myofilament MLCK2 in slow twitch rat soleus muscle. Physiological Reports, 2015, 3, e12285.	0.7	7
116	Relationship between Acid-Base Status and Electrolyte Balance after Maximal Work of Short Duration. Medicine and Sport Science, 1984, 17, 40-55.	1.4	6
117	Calcium Induced Contracture Stimulates Na,K-pump Rate in Isolated Sheep Cardiac Purkinje Fibers. Journal of Molecular and Cellular Cardiology, 1997, 29, 2197-2212.	0.9	6
118	Exercise training before cardiac-specific <i>Serca2</i> disruption attenuates the decline in cardiac function in mice. Journal of Applied Physiology, 2010, 109, 1749-1755.	1.2	6
119	Temperature-dependent skeletal muscle dysfunction in rats with congestive heart failure. Journal of Applied Physiology, 2005, 99, 1500-1507.	1.2	5
120	Metabolic Acidosis and Changes in Water and Electrolyte Balance After Maximal Exercise. Novartis Foundation Symposium, 1982, 87, 153-167.	1.2	5
121	Increased erythrocyte magnesium in untreated essential hypertension. Journal of Hypertension, 1989, 7, S156-157.	0.3	4
122	Surgical manipulation, but not moderate exercise, is associated with increased cytokine mRNA expression in the rat soleus muscle. Acta Physiologica Scandinavica, 2002, 175, 219-226.	2.3	4
123	Ouabain inhibits renin release by a direct renal haemodynamic effect. Scandinavian Journal of Clinical and Laboratory Investigation, 1984, 44, 557-563.	0.6	3
124	Sarcoplasmic Reticulum Calcium Release Is Required for Arrhythmogenesis in the Mouse. Frontiers in Physiology, 2021, 12, 744730.	1.3	3
125	Distribution of ouabainâ€binding sites along the dog nephron. Acta Physiologica Scandinavica, 1985, 125, 699-710.	2.3	2
126	Fra global til lokal - ny forstÃ¥else av den elektromekaniske koblingen i hjertet. Tidsskrift for Den Norske Laegeforening, 2012, 132, 1457-1460.	0.2	2

#	Article	IF	Citations
127	Transcellular and intercellular transport of anions in the kidney tubules of dogs. Acta Physiologica Scandinavica, 1981, 113, 239-244.	2.3	0
128	Molecular Medicine for the Cardiac Surgeon. Scandinavian Cardiovascular Journal, 2002, 36, 201-208.	0.4	0
129	Normal training response in skeletal muscle of postâ€infarction heart failure patients. European Journal of Sport Science, 2013, 13, 231-239.	1.4	0
130	Design of a Proteolytically Stable Sodium-Calcium Exchanger 1 Activator Peptide for In Vivo Studies. Frontiers in Pharmacology, 2021, 12, 638646.	1.6	0
131	A MATHEMATICAL MODEL OF THE PROPOSED FUZZY SPACE FOR NA+ AND CA2+ IN LEFT VENTRICLE CARDIOMYOCYTES. , 2005, , .		0
132	ENERGETICS AND SPECIFICITY OF TRANSCELLULAR NaCl TRANSPORT IN THE DOG KIDNEY. , 1980, , 245-250.		0