Aladin M Boriek

List of Publications by Year
in descending order

53	2,364	257450 24	206112 48
papers	citations	h-index	g-index

53	53	53	3626
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A theoretical framework for mechanics of diaphragm. Journal of Biomechanics, 2022, 138, 111090.	2.1	0
2	Mechanics of dystrophin deficient skeletal muscles in very young mice and effects of age. American Journal of Physiology - Cell Physiology, 2021, 321, C230-C246.	4.6	8
3	SIRT1 Regulation in Ageing and Obesity. Mechanisms of Ageing and Development, 2020, 188, 111249.	4.6	46
4	A Risk Prediction Model for Mortality Among Smokers in the COPDGeneÂ® Study. Chronic Obstructive Pulmonary Diseases (Miami, Fla), 2020, 7, 346-361.	0.7	9
5	COPDGeneÂ® 2019: Redefining the Diagnosis of Chronic Obstructive Pulmonary Disease. Chronic Obstructive Pulmonary Diseases (Miami, Fla), 2019, 6, 384-399.	0.7	112
6	Pectoralis muscle area and mortality in smokers without airflow obstruction. Respiratory Research, 2018, 19, 62.	3.6	41
7	Regional diaphragm volume displacement is heterogeneous in dogs. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2017, 312, R443-R450.	1.8	1
8	Anisotropic mechanosensitive pathways in the diaphragm and their implications in muscular dystrophies. Journal of Muscle Research and Cell Motility, 2017, 38, 437-446.	2.0	1
9	Obesity modulates diaphragm curvature in subjects with and without COPD. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2017, 313, R620-R629.	1.8	19
10	Obesity Is Associated With Increased Morbidity in Moderate to Severe COPD. Chest, 2017, 151, 68-77.	0.8	113
11	Examining the Effects of Age on Health Outcomes of Chronic Obstructive Pulmonary Disease: Results From the Genetic Epidemiology of Chronic Obstructive Pulmonary Disease Study and Evaluation of Chronic Obstructive Pulmonary Disease Longitudinally to Identify Predictive Surrogate Endpoints Cohorts. Journal of the American Medical Directors Association, 2017, 18, 1063-1068.	2.5	8
12	MicroRNA-434-3p regulates age-related apoptosis through eIF5A1 in the skeletal muscle. Aging, 2017, 9, 1012-1029.	3.1	34
13	Persistent and Newly Developed Chronic Bronchitis Are Associated with Worse Outcomes in Chronic Obstructive Pulmonary Disease. Annals of the American Thoracic Society, 2016, 13, 1016-1025.	3.2	36
14	Association between Functional Small Airway Disease and FEV₁ Decline in Chronic Obstructive Pulmonary Disease. American Journal of Respiratory and Critical Care Medicine, 2016, 194, 178-184.	5.6	292
15	Genome-wide Mechanosensitive MicroRNA (MechanomiR) Screen Uncovers Dysregulation of Their Regulatory Networks in the mdm Mouse Model of Muscular Dystrophy. Journal of Biological Chemistry, 2015, 290, 24986-25011.	3.4	21
16	MicroRNA-149 Inhibits PARP-2 and Promotes Mitochondrial Biogenesis via SIRT-1/PGC-1Î± Network in Skeletal Muscle. Diabetes, 2014, 63, 1546-1559.	0.6	124
17	Ankyrin Repeat Domain Protein 2 and Inhibitor of DNA Binding 3 Cooperatively Inhibit Myoblast Differentiation by Physical Interaction. Journal of Biological Chemistry, 2013, 288, 24560-24568.	3.4	21
18	An autoregulatory loop reverts the mechanosensitive Sirt1 induction by EGR1 in skeletal muscle cells. Aging, 2012, 4, 456-461.	3.1	18

#	Article	IF	Citations
19	The physiological roles of Sirt1 in skeletal muscle. Aging, 2011, 3, 430-437.	3.1	72
20	Desmin Regulates Airway Smooth Muscle Hypertrophy through Early Growth-responsive Protein-1 and MicroRNA-26a. Journal of Biological Chemistry, 2011, 286, 43394-43404.	3.4	34
21	Induction of Sirt1 by Mechanical Stretch of Skeletal Muscle through the Early Response Factor EGR1 Triggers an Antioxidative Response. Journal of Biological Chemistry, 2011, 286, 2559-2566.	3.4	72
22	Diaphragm curvature modulates the relationship between muscle shortening and volume displacement. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2011, 301, R76-R82.	1.8	5
23	Anisotropic regulation of Ankrd2 gene expression in skeletal muscle by mechanical stretch. FASEB Journal, 2010, 24, 3330-3340.	0.5	25
24	Diaphragm muscle shortening modulates kinematics of lower rib cage in dogs. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2010, 299, R1456-R1462.	1.8	4
25	Mechanical Stretch Up-regulates MicroRNA-26a and Induces Human Airway Smooth Muscle Hypertrophy by Suppressing Glycogen Synthase Kinase-3Î². Journal of Biological Chemistry, 2010, 285, 29336-29347.	3.4	186
26	Early mechanical dysfunction of the diaphragm in the muscular dystrophy with myositis (Ttn^{mdm}) model. American Journal of Physiology - Cell Physiology, 2008, 295, C1092-C1102.	4.6	32
27	FOXO transcription factors are mechanosensitive and their regulation is altered with aging in the respiratory pump. American Journal of Physiology - Cell Physiology, 2008, 294, C1056-C1066.	4.6	33
28	Length and curvature of the dog diaphragm. Journal of Applied Physiology, 2006, 101, 794-798.	2.5	26
29	Force transmission, compliance, and viscoelasticity are altered in the Î±7-integrin-null mouse diaphragm. American Journal of Physiology - Cell Physiology, 2005, 288, C282-C289.	4.6	27
30	Shape and tension distribution of the active canine diaphragm. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2005, 288, R1021-R1027.	1.8	17
31	Loss of dystrophin causes aberrant mechanotransduction in skeletal muscle fibers. FASEB Journal, 2004, 18, 102-113.	0.5	141
32	Cyclic mechanical strain inhibits skeletal myogenesis through activation of focal adhesion kinase, Racâ€1 GTPase, and NFâ€kB transcription factor. FASEB Journal, 2004, 18, 1524-1535.	0.5	105
33	Mechanical stress activates the nuclear factorâ€kappaB pathway in skeletal muscle fibers: a possible role in Duchenne muscular dystrophy. FASEB Journal, 2003, 17, 386-396.	0.5	244
34	Selected Contribution: Merosin deficiency leads to alterations in passive and active skeletal muscle mechanics. Journal of Applied Physiology, 2003, 94, 2524-2533.	2.5	16
35	Altered muscle force and stiffness of skeletal muscles in Î±-sarcoglycan-deficient mice. American Journal of Physiology - Cell Physiology, 2003, 284, C962-C968.	4.6	18
36	Distinct Signaling Pathways Are Activated in Response to Mechanical Stress Applied Axially and Transversely to Skeletal Muscle Fibers. Journal of Biological Chemistry, 2002, 277, 46493-46503.	3.4	84

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37	Fiber architecture of canine abdominal muscles. Journal of Applied Physiology, 2002, 92, 725-735.	2.5	12
38	Inferences on force transmission from muscle fiber architecture of the canine diaphragm. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2001, 280, R156-R165.	1.8	22
39	Desmin integrates the three-dimensional mechanical properties of muscles. American Journal of Physiology - Cell Physiology, 2001, 280, C46-C52.	4.6	80
40	Shape and tension distribution of the passive rat diaphragm. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2001, 280, R33-R41.	1.8	33
41	Modeling the kinematics of the canine midcostal diaphragm. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2001, 280, R588-R597.	1.8	5
42	Effects of smooth muscle activation on axial mechanical properties of excised canine bronchi. Journal of Applied Physiology, 2001, 90, 1258-1266.	2.5	6
43	Shape of the canine diaphragm. Journal of Applied Physiology, 2000, 89, 15-20.	2.5	7
44	Biaxial constitutive relations for the passive canine diaphragm. Journal of Applied Physiology, 2000, 89, 2187-2190.	2.5	29
45	Predicting time to decompression illness during exercise at altitude, based on formation and growth of bubbles. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2000, 279, R2317-R2328.	1.8	7
46	A model for influence of exercise on formation and growth of tissue bubbles during altitude decompression. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2000, 279, R2304-R2316.	1.8	8
47	Ratio of active to passive muscle shortening in the canine diaphragm. Journal of Applied Physiology, 1999, 87, 561-566.	2.5	7
48	Muscle fiber architecture of the dog diaphragm. Journal of Applied Physiology, 1998, 84, 318-326.	2.5	19
49	Mechanical advantage of the canine diaphragm. Journal of Applied Physiology, 1998, 85, 2284-2290.	2.5	20
50	Theory of diaphragm structure and shape. Journal of Applied Physiology, 1997, 83, 1486-1491.	2.5	12
51	Effects of transverse fiber stiffness and central tendon on displacement and shape of a simple diaphragm model. Journal of Applied Physiology, 1997, 82, 1626-1636.	2.5	18
52	Kinematics and mechanics of midcostal diaphragm of dog. Journal of Applied Physiology, 1997, 83, 1068-1075.	2.5	23
53	Zone of apposition in the passive diaphragm of the dog. Journal of Applied Physiology, 1996, 81, 1929-1940.	2.5	11