

Aladin M Boriek

List of Publications by Year in descending order

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Version: 2024-02-01

53
papers

2,364
citations

257450

24
h-index

206112

48
g-index

53
all docs

53
docs citations

53
times ranked

3626
citing authors

#	ARTICLE	IF	CITATIONS
1	Association between Functional Small Airway Disease and FEV ₁ Decline in Chronic Obstructive Pulmonary Disease. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2016, 194, 178-184.	5.6	292
2	Mechanical stress activates the nuclear factor- κ B pathway in skeletal muscle fibers: a possible role in Duchenne muscular dystrophy. <i>FASEB Journal</i> , 2003, 17, 386-396.	0.5	244
3	Mechanical Stretch Up-regulates MicroRNA-26a and Induces Human Airway Smooth Muscle Hypertrophy by Suppressing Glycogen Synthase Kinase-3 β . <i>Journal of Biological Chemistry</i> , 2010, 285, 29336-29347.	3.4	186
4	Loss of dystrophin causes aberrant mechanotransduction in skeletal muscle fibers. <i>FASEB Journal</i> , 2004, 18, 102-113.	0.5	141
5	MicroRNA-149 Inhibits PARP-2 and Promotes Mitochondrial Biogenesis via SIRT1/PGC-1 β Network in Skeletal Muscle. <i>Diabetes</i> , 2014, 63, 1546-1559.	0.6	124
6	Obesity Is Associated With Increased Morbidity in Moderate to Severe COPD. <i>Chest</i> , 2017, 151, 68-77.	0.8	113
7	COPD Gene [®] 2019: Redefining the Diagnosis of Chronic Obstructive Pulmonary Disease. <i>Chronic Obstructive Pulmonary Diseases (Miami, Fla)</i> , 2019, 6, 384-399.	0.7	112
8	Cyclic mechanical strain inhibits skeletal myogenesis through activation of focal adhesion kinase, Rac1 GTPase, and NF- κ B transcription factor. <i>FASEB Journal</i> , 2004, 18, 1524-1535.	0.5	105
9	Distinct Signaling Pathways Are Activated in Response to Mechanical Stress Applied Axially and Transversely to Skeletal Muscle Fibers. <i>Journal of Biological Chemistry</i> , 2002, 277, 46493-46503.	3.4	84
10	Desmin integrates the three-dimensional mechanical properties of muscles. <i>American Journal of Physiology - Cell Physiology</i> , 2001, 280, C46-C52.	4.6	80
11	The physiological roles of Sirt1 in skeletal muscle. <i>Aging</i> , 2011, 3, 430-437.	3.1	72
12	Induction of Sirt1 by Mechanical Stretch of Skeletal Muscle through the Early Response Factor EGR1 Triggers an Antioxidative Response. <i>Journal of Biological Chemistry</i> , 2011, 286, 2559-2566.	3.4	72
13	SIRT1 Regulation in Ageing and Obesity. <i>Mechanisms of Ageing and Development</i> , 2020, 188, 111249.	4.6	46
14	Pectoralis muscle area and mortality in smokers without airflow obstruction. <i>Respiratory Research</i> , 2018, 19, 62.	3.6	41
15	Persistent and Newly Developed Chronic Bronchitis Are Associated with Worse Outcomes in Chronic Obstructive Pulmonary Disease. <i>Annals of the American Thoracic Society</i> , 2016, 13, 1016-1025.	3.2	36
16	Desmin Regulates Airway Smooth Muscle Hypertrophy through Early Growth-responsive Protein-1 and MicroRNA-26a. <i>Journal of Biological Chemistry</i> , 2011, 286, 43394-43404.	3.4	34
17	MicroRNA-434-3p regulates age-related apoptosis through eIF5A1 in the skeletal muscle. <i>Aging</i> , 2017, 9, 1012-1029.	3.1	34
18	Shape and tension distribution of the passive rat diaphragm. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2001, 280, R33-R41.	1.8	33

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19	FOXO transcription factors are mechanosensitive and their regulation is altered with aging in the respiratory pump. <i>American Journal of Physiology - Cell Physiology</i> , 2008, 294, C1056-C1066.	4.6	33
20	Early mechanical dysfunction of the diaphragm in the muscular dystrophy with myositis (<i>Ttn</i> ^{mdm}) model. <i>American Journal of Physiology - Cell Physiology</i> , 2008, 295, C1092-C1102.	4.6	32
21	Biaxial constitutive relations for the passive canine diaphragm. <i>Journal of Applied Physiology</i> , 2000, 89, 2187-2190.	2.5	29
22	Force transmission, compliance, and viscoelasticity are altered in the β 7-integrin-null mouse diaphragm. <i>American Journal of Physiology - Cell Physiology</i> , 2005, 288, C282-C289.	4.6	27
23	Length and curvature of the dog diaphragm. <i>Journal of Applied Physiology</i> , 2006, 101, 794-798.	2.5	26
24	Anisotropic regulation of <i>Ankrd2</i> gene expression in skeletal muscle by mechanical stretch. <i>FASEB Journal</i> , 2010, 24, 3330-3340.	0.5	25
25	Kinematics and mechanics of midcostal diaphragm of dog. <i>Journal of Applied Physiology</i> , 1997, 83, 1068-1075.	2.5	23
26	Inferences on force transmission from muscle fiber architecture of the canine diaphragm. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2001, 280, R156-R165.	1.8	22
27	Ankyrin Repeat Domain Protein 2 and Inhibitor of DNA Binding 3 Cooperatively Inhibit Myoblast Differentiation by Physical Interaction. <i>Journal of Biological Chemistry</i> , 2013, 288, 24560-24568.	3.4	21
28	Genome-wide Mechanosensitive MicroRNA (MechanomiR) Screen Uncovers Dysregulation of Their Regulatory Networks in the <i>mdm</i> Mouse Model of Muscular Dystrophy. <i>Journal of Biological Chemistry</i> , 2015, 290, 24986-25011.	3.4	21
29	Mechanical advantage of the canine diaphragm. <i>Journal of Applied Physiology</i> , 1998, 85, 2284-2290.	2.5	20
30	Muscle fiber architecture of the dog diaphragm. <i>Journal of Applied Physiology</i> , 1998, 84, 318-326.	2.5	19
31	Obesity modulates diaphragm curvature in subjects with and without COPD. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2017, 313, R620-R629.	1.8	19
32	Effects of transverse fiber stiffness and central tendon on displacement and shape of a simple diaphragm model. <i>Journal of Applied Physiology</i> , 1997, 82, 1626-1636.	2.5	18
33	Altered muscle force and stiffness of skeletal muscles in β -sarcoglycan-deficient mice. <i>American Journal of Physiology - Cell Physiology</i> , 2003, 284, C962-C968.	4.6	18
34	An autoregulatory loop reverts the mechanosensitive Sirt1 induction by EGR1 in skeletal muscle cells. <i>Aging</i> , 2012, 4, 456-461.	3.1	18
35	Shape and tension distribution of the active canine diaphragm. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2005, 288, R1021-R1027.	1.8	17
36	Selected Contribution: Merosin deficiency leads to alterations in passive and active skeletal muscle mechanics. <i>Journal of Applied Physiology</i> , 2003, 94, 2524-2533.	2.5	16

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37	Theory of diaphragm structure and shape. <i>Journal of Applied Physiology</i> , 1997, 83, 1486-1491.	2.5	12
38	Fiber architecture of canine abdominal muscles. <i>Journal of Applied Physiology</i> , 2002, 92, 725-735.	2.5	12
39	Zone of apposition in the passive diaphragm of the dog. <i>Journal of Applied Physiology</i> , 1996, 81, 1929-1940.	2.5	11
40	A Risk Prediction Model for Mortality Among Smokers in the COPDGene® Study. <i>Chronic Obstructive Pulmonary Diseases (Miami, Fla)</i> , 2020, 7, 346-361.	0.7	9
41	A model for influence of exercise on formation and growth of tissue bubbles during altitude decompression. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2000, 279, R2304-R2316.	1.8	8
42	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. <i>Journal of the American Medical Directors Association</i> , 2017, 18, 1063-1068.	2.5	8
43	Mechanics of dystrophin deficient skeletal muscles in very young mice and effects of age. <i>American Journal of Physiology - Cell Physiology</i> , 2021, 321, C230-C246.	4.6	8
44	Ratio of active to passive muscle shortening in the canine diaphragm. <i>Journal of Applied Physiology</i> , 1999, 87, 561-566.	2.5	7
45	Shape of the canine diaphragm. <i>Journal of Applied Physiology</i> , 2000, 89, 15-20.	2.5	7
46	Predicting time to decompression illness during exercise at altitude, based on formation and growth of bubbles. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2000, 279, R2317-R2328.	1.8	7
47	Effects of smooth muscle activation on axial mechanical properties of excised canine bronchi. <i>Journal of Applied Physiology</i> , 2001, 90, 1258-1266.	2.5	6
48	Modeling the kinematics of the canine midcostal diaphragm. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2001, 280, R588-R597.	1.8	5
49	Diaphragm curvature modulates the relationship between muscle shortening and volume displacement. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2011, 301, R76-R82.	1.8	5
50	Diaphragm muscle shortening modulates kinematics of lower rib cage in dogs. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2010, 299, R1456-R1462.	1.8	4
51	Regional diaphragm volume displacement is heterogeneous in dogs. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2017, 312, R443-R450.	1.8	1
52	Anisotropic mechanosensitive pathways in the diaphragm and their implications in muscular dystrophies. <i>Journal of Muscle Research and Cell Motility</i> , 2017, 38, 437-446.	2.0	1
53	A theoretical framework for mechanics of diaphragm. <i>Journal of Biomechanics</i> , 2022, 138, 111090.	2.1	0