Steven M Dudek

List of Publications by Year
in descending order

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85 papers	4,905 citations	101496 36 h-index	91828 69 g-index
85 all docs	85 docs citations	85 times ranked	4856 citing authors

#	Article	IF	Citations
1	Role of Lysocardiolipin Acyltransferase in Cigarette Smoke-Induced Lung Epithelial Cell Mitochondrial ROS, Mitochondrial Dynamics, and Apoptosis. Cell Biochemistry and Biophysics, 2022, 80, 203-216.	0.9	7
2	eNAMPT neutralization reduces preclinical ARDS severity via rectified NFkB and Akt/mTORC2 signaling. Scientific Reports, 2022, 12, 696.	1.6	23
3	MRSA-induced endothelial permeability and acute lung injury are attenuated by FTY720 S-phosphonate. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2022, 322, L149-L161.	1.3	10
4	A cortactin CTTN coding SNP contributes to lung vascular permeability and inflammatory disease severity in African descent subjects. Translational Research, 2022, 244, 56-74.	2.2	6
5	Critical role for the lung endothelial nonmuscle myosin lightâ€chain kinase isoform in the severity of inflammatory murine lung injury. Pulmonary Circulation, 2022, 12, e12061.	0.8	6
6	Cortactin in Lung Cell Function and Disease. International Journal of Molecular Sciences, 2022, 23, 4606.	1.8	11
7	Cortactin Loss Protects Against Hemin-Induced Acute Lung Injury in Sickle Cell Disease. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2022, , .	1.3	2
8	Novel ACE mutations mimicking sarcoidosis by increasing blood ACE levels. Translational Research, 2021, 230, 5-20.	2.2	12
9	Endothelial eNAMPT amplifies pre-clinical acute lung injury: efficacy of an eNAMPT-neutralising monoclonal antibody. European Respiratory Journal, 2021, 57, 2002536.	3.1	53
10	Cigarette Smoke and Nicotine-Containing Electronic-Cigarette Vapor Downregulate Lung WWOX Expression, Which Is Associated with Increased Severity of Murine Acute Respiratory Distress Syndrome. American Journal of Respiratory Cell and Molecular Biology, 2021, 64, 89-99.	1.4	5
11	A Case of Candidemia after Long-term Presence of Urethral Foreign Bodies. IDCases, 2021, 25, e01176.	0.4	1
12	Genetic and epigenetic regulation of the non-muscle myosin light chain kinase isoform by lung inflammatory factors and mechanical stress. Clinical Science, 2021, 135, 963-977.	1.8	8
13	Epitope mapping of novel monoclonal antibodies to human angiotensin Iâ€converting enzyme. Protein Science, 2021, 30, 1577-1593.	3.1	7
14	Secretory Phospholipase A2 Enzymes in Acute Lung Injury. Cell Biochemistry and Biophysics, 2021, 79, 609-617.	0.9	20
15	Phenotyping Angiotensin-Converting Enzyme in Blood: A Necessary Approach for Precision Medicine. journal of applied laboratory medicine, The, 2021, 6, 1179-1191.	0.6	7
16	Development of an Image-Based HCS-Compatible Method for Endothelial Barrier Function Assessment. SLAS Discovery, 2021, 26, 1079-1090.	1.4	1
17	Group V Phospholipase A2 Mediates Endothelial Dysfunction and Acute Lung Injury Caused by Methicillin-Resistant Staphylococcus Aureus. Cells, 2021, 10, 1731.	1.8	9
18	EVL is a novel focal adhesion protein involved in the regulation of cytoskeletal dynamics and vascular permeability. Pulmonary Circulation, 2021, 11, 1-10.	0.8	6

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19	Comparison of polynomial fitting versus single time point analysis of ECIS data for barrier assessment. Physiological Reports, 2021, 9, e14983.	0.7	1
20	Cortactin Modulates Lung Endothelial Apoptosis Induced by Cigarette Smoke. Cells, 2021, 10, 2869.	1.8	6
21	Functional Roles for CD26/DPP4 in Mediating Inflammatory Responses of Pulmonary Vascular Endothelial Cells. Cells, 2021, 10, 3508.	1.8	9
22	Neutrophil-Derived Extracellular Vesicles Activate Platelets after Pneumolysin Exposure. Cells, 2021, 10, 3581.	1.8	12
23	Degradation of group V secretory phospholipase A2 in lung endothelium is mediated by autophagy. Microvascular Research, 2020, 129, 103954.	1.1	4
24	Angiocrine Sphingosine-1-Phosphate Activation of S1PR2-YAP Signaling Axis in Alveolar Type II Cells Is Essential for Lung Repair. Cell Reports, 2020, 31, 107828.	2.9	38
25	Sphingosineâ€1â€phosphate receptorâ€independent lung endothelial cell barrier disruption induced by FTY720 regioisomers. Pulmonary Circulation, 2020, 10, 1-10.	0.8	8
26	Arg mediates LPS-induced disruption of the pulmonary endothelial barrier. Vascular Pharmacology, 2020, 128-129, 106677.	1.0	9
27	Cholesterol-Dependent Modulation of Stem Cell Biomechanics: Application to Adipogenesis. Journal of Biomechanical Engineering, 2019, 141, .	0.6	5
28	A nonapoptotic endothelial barrier-protective role for caspase-3. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2019, 316, L1118-L1126.	1.3	24
29	Myosin light chain kinase (MYLK) coding polymorphisms modulate human lung endothelial cell barrier responses via altered tyrosine phosphorylation, spatial localization, and lamellipodial protrusions. Pulmonary Circulation, 2018, 8, 1-7.	0.8	17
30	Cortical Actin Dynamics in Endothelial Permeability. Current Topics in Membranes, 2018, 82, 141-195.	0.5	35
31	DPP4 inhibition by sitagliptin attenuates LPS-induced lung injury in mice. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2018, 315, L834-L845.	1.3	89
32	Development of ultrasound bioprobe for biological imaging. Science Advances, 2017, 3, e1701176.	4.7	24
33	Parkin regulates lipopolysaccharide-induced proinflammatory responses in acute lung injury. Translational Research, 2017, 181, 71-82.	2.2	36
34	The ARP 2/3 complex mediates endothelial barrier function and recovery. Pulmonary Circulation, 2017, 7, 200-210.	0.8	16
35	Cortactin in Atherosclerosis. Arteriosclerosis, Thrombosis, and Vascular Biology, 2016, 36, 2278-2280.	1.1	2
36	Nonmuscle Myosin Light Chain Kinase Activity Modulates Radiationâ€induced Lung Injury. Pulmonary Circulation, 2016, 6, 234-239.	0.8	9

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37	â€œPulmonary Endothelial Cell Barrier Enhancement by Novel FTY720 Analogs: Methoxy-FTY720, Fluoro-FTY720, and Î²-Glucuronide-FTY720â€. Chemistry and Physics of Lipids, 2016, 194, 85-93.	1.5	13
38	Regulation of Thrombin-Induced Lung Endothelial Cell Barrier Disruption by Protein Kinase C Delta. PLoS ONE, 2016, 11, e0158865.	1.1	15
39	Nano-Biomechanical Study of Spatio-Temporal Cytoskeleton Rearrangements that Determine Subcellular Mechanical Properties and Endothelial Permeability. Scientific Reports, 2015, 5, 11097.	1.6	31
40	Structureâ€“Function Analysis of the Non-Muscle Myosin Light Chain Kinase (nmMLCK) Isoform by NMR Spectroscopy and Molecular Modeling: Influence of MYLK Variants. PLoS ONE, 2015, 10, e0130515.	1.1	11
41	Imatinib attenuates inflammation and vascular leak in a clinically relevant two-hit model of acute lung injury. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2015, 309, L1294-L1304.	1.3	72
42	A genetic variant of cortactin linked to acute lung injury impairs lamellipodia dynamics and endothelial wound healing. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2015, 309, L983-L994.	1.3	14
43	Pathologic Mechanical Stress and Endotoxin Exposure Increases Lung Endothelial Microparticle Shedding. American Journal of Respiratory Cell and Molecular Biology, 2015, 52, 193-204.	1.4	68
44	Junctional complex and focal adhesion rearrangement mediates pulmonary endothelial barrier enhancement by FTY720 S-phosphonate. Microvascular Research, 2015, 99, 102-109.	1.1	28
45	Targeting Abl Kinases to Regulate Vascular Leak During Sepsis and Acute Respiratory Distress Syndrome. Arteriosclerosis, Thrombosis, and Vascular Biology, 2015, 35, 1071-1079.	1.1	64
46	Pulmonary Endothelial Cell Barrier Enhancement by Novel FTY720 Analogs: Methoxy-FTY720, Fluoro-FTY720, and Î²-Glucuronide-FTY720. Chemistry and Physics of Lipids, 2015, 191, 16-24.	1.5	21
47	Loss of Cystic Fibrosis Transmembrane Conductance Regulator Impairs Lung Endothelial Cell Barrier Function and Increases Susceptibility to Microvascular Damage from Cigarette Smoke. Pulmonary Circulation, 2014, 4, 260-268.	0.8	30
48	Role of c-Met/Phosphatidylinositol 3-Kinase (PI3k)/Akt Signaling in Hepatocyte Growth Factor (HGF)-mediated Lamellipodia Formation, Reactive Oxygen Species (ROS) Generation, and Motility of Lung Endothelial Cells. Journal of Biological Chemistry, 2014, 289, 13476-13491.	1.6	73
49	Proline-rich region of non-muscle myosin light chain kinase modulates kinase activity and endothelial cytoskeletal dynamics. Microvascular Research, 2014, 95, 94-102.	1.1	14
50	FTY720 (S)-Phosphonate Preserves Sphingosine 1-Phosphate Receptor 1 Expression and Exhibits Superior Barrier Protection to FTY720 in Acute Lung Injury. Critical Care Medicine, 2014, 42, e189-e199.	0.4	45
51	Sphingosine-1â€“Phosphate, FTY720, and Sphingosine-1â€“Phosphate Receptors in the Pathobiology of Acute Lung Injury. American Journal of Respiratory Cell and Molecular Biology, 2013, 49, 6-17.	1.4	127
52	Ezrin/radixin/moesin proteins differentially regulate endothelial hyperpermeability after thrombin. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2013, 305, L240-L255.	1.3	58
53	Functional promoter variants in sphingosine 1-phosphate receptor 3 associate with susceptibility to sepsis-associated acute respiratory distress syndrome. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2013, 305, L467-L477.	1.3	43
54	Group V Phospholipase A₂ Increases Pulmonary Endothelial Permeability Through Direct Hydrolysis of the Cell Membrane. Pulmonary Circulation, 2012, 2, 182-192.	0.8	13

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55	Novel Role for Non-muscle Myosin Light Chain Kinase (MLCK) in Hyperoxia-induced Recruitment of Cytoskeletal Proteins, NADPH Oxidase Activation, and Reactive Oxygen Species Generation in Lung Endothelium. Journal of Biological Chemistry, 2012, 287, 9360-9375.	1.6	42
56	Role of FAK in S1P-regulated endothelial permeability. Microvascular Research, 2012, 83, 22-30.	1.1	52
57	Decreased Pulmonary Function in Asymptomatic Long Term Survivors After Busulfan-Based Myeloablative Allogeneic Hematopoietic Stem Cell Transplant. Blood, 2012, 120, 4474-4474.	0.6	0
58	Differential involvement of ezrin/radixin/moesin proteins in sphingosine 1-phosphate-induced human pulmonary endothelial cell barrier enhancement. Cellular Signalling, 2011, 23, 2086-2096.	1.7	49
59	Role of Growth Arrest and DNA Damageâ€"inducible Î± in Akt Phosphorylation and Ubiquitination after Mechanical Stress-induced Vascular Injury. American Journal of Respiratory and Critical Care Medicine, 2011, 184, 1030-1040.	2.5	33
60	Nonâ€"Muscle Myosin Light Chain Kinase Isoform Is a Viable Molecular Target in Acute Inflammatory Lung Injury. American Journal of Respiratory Cell and Molecular Biology, 2011, 44, 40-52.	1.4	69
61	Group V Phospholipase A2Mediates Barrier Disruption of Human Pulmonary Endothelial Cells Caused by LPSIn Vitro. American Journal of Respiratory Cell and Molecular Biology, 2011, 44, 361-368.	1.4	24
62	Role of sphingolipids in murine radiationâ€induced lung injury: protection by sphingosine 1â€phosphate analogs. FASEB Journal, 2011, 25, 3388-3400.	0.2	57
63	Abl Tyrosine Kinase Phosphorylates Nonmuscle Myosin Light Chain Kinase to Regulate Endothelial Barrier Function. Molecular Biology of the Cell, 2010, 21, 4042-4056.	0.9	101
64	Differential Effects of Sphingosine 1â€"Phosphate Receptors on Airway and Vascular Barrier Function in the Murine Lung. American Journal of Respiratory Cell and Molecular Biology, 2010, 43, 394-402.	1.4	150
65	Quantitative distribution and colocalization of non-muscle myosin light chain kinase isoforms and cortactin in human lung endothelium. Microvascular Research, 2010, 80, 75-88.	1.1	45
66	Secretory group V phospholipase A₂regulates acute lung injury and neutrophilic inflammation caused by LPS in mice. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2009, 296, L879-L887.	1.3	60
67	Identification of novelin vitroprotein kinase A phosphorylation sites on recombinant non-muscle myosin light chain kinase: nano-liquid chromatography tandem mass spectrometry methodology. Journal of Organ Dysfunction, 2009, 5, 242-253.	0.3	2
68	Phosphotyrosine protein dynamics in cell membrane rafts of sphingosine-1-phosphate-stimulated human endothelium: Role in barrier enhancement. Cellular Signalling, 2009, 21, 1945-1960.	1.7	53
69	Endothelial permeability is controlled by spatially defined cytoskeletal mechanics: Atomic force microscopy force mapping of pulmonary endothelial monolayer. Nanomedicine: Nanotechnology, Biology, and Medicine, 2009, 5, 30-41.	1.7	77
70	Regulation of vascular permeability by sphingosine 1-phosphate. Microvascular Research, 2009, 77, 39-45.	1.1	149
71	Protective effects of high-molecular weight Polyethylene Glycol (PEG) in human lung endothelial cell barrier regulation: Role of actin cytoskeletal rearrangement. Microvascular Research, 2009, 77, 174-186.	1.1	43
72	Enhanced interaction between focal adhesion and adherens junction proteins: Involvement in sphingosine 1-phosphate-induced endothelial barrier enhancement. Microvascular Research, 2009, 77, 304-313.	1.1	79

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73	A common cortactin gene variation confers differential susceptibility to severe asthma. Genetic Epidemiology, 2008, 32, 757-766.	0.6	18
74	Regulation of the Micromechanical Properties of Pulmonary Endothelium by S1P and Thrombin: Role of Cortactin. Biophysical Journal, 2008, 95, 886-894.	0.2	58
75	Regulation of Hyperoxia-induced NADPH Oxidase Activation in Human Lung Endothelial Cells by the Actin Cytoskeleton and Cortactin. Journal of Biological Chemistry, 2007, 282, 23284-23295.	1.6	63
76	Endothelial cell barrier enhancement by ATP is mediated by the small GTPase Rac and cortactin. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2006, 291, L289-L295.	1.3	83
77	Transactivation of Sphingosine 1-Phosphate Receptors Is Essential for Vascular Barrier Regulation. Journal of Biological Chemistry, 2006, 281, 34381-34393.	1.6	169
78	Activated Protein C Mediates Novel Lung Endothelial Barrier Enhancement. Journal of Biological Chemistry, 2005, 280, 17286-17293.	1.6	349
79	Regulation of sphingosine 1â€phosphateâ€induced endothelial cytoskeletal rearrangement and barrier enhancement by S1P 1 receptor, PI3 kinase, Tiam1/Rac1, and Î±â€actinin. FASEB Journal, 2005, 19, 1646-1656.	0.2	265
80	Arachidonic acid cascade in endothelial pathobiology. Microvascular Research, 2005, 69, 107-127.	1.1	107
81	Cytoskeletal Activation and Altered Gene Expression in Endothelial Barrier Regulation by Simvastatin. American Journal of Respiratory Cell and Molecular Biology, 2004, 30, 662-670.	1.4	144
82	Pulmonary Endothelial Cell Barrier Enhancement by Sphingosine 1-Phosphate. Journal of Biological Chemistry, 2004, 279, 24692-24700.	1.6	271
83	Interaction of cortactin and Arp2/3 complex is required for sphingosine-1-phosphate-induced endothelial cell remodeling. Experimental Cell Research, 2004, 298, 107-121.	1.2	32
84	Novel interaction of cortactin with endothelial cell myosin light chain kinase. Biochemical and Biophysical Research Communications, 2002, 298, 511-519.	1.0	91
85	Cytoskeletal regulation of pulmonary vascular permeability. Journal of Applied Physiology, 2001, 91, 1487-1500.	1.2	892