

# Lewis H Romer

## List of Publications by Year in descending order

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70  
papers

4,405  
citations

94433

37  
h-index

114465

63  
g-index

72  
all docs

72  
docs citations

72  
times ranked

6854  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanotopography Modulates Mechanotransduction of Stem Cells and Induces Differentiation through Focal Adhesion Kinase. <i>ACS Nano</i> , 2013, 7, 4785-4798.	14.6	352
2	Surviving sepsis campaign international guidelines for the management of septic shock and sepsis-associated organ dysfunction in children. <i>Intensive Care Medicine</i> , 2020, 46, 10-67.	8.2	331
3	Integrin-Mediated Survival Signals Regulate the Apoptotic Function of Bax through Its Conformation and Subcellular Localization. <i>Journal of Cell Biology</i> , 2000, 149, 431-446.	5.2	261
4	Focal Adhesions. <i>Circulation Research</i> , 2006, 98, 606-616.	4.5	238
5	Integrin-mediated Activation of MAP Kinase Is Independent of FAK: Evidence for Dual Integrin Signaling Pathways in Fibroblasts. <i>Journal of Cell Biology</i> , 1997, 136, 1385-1395.	5.2	235
6	Dissecting the link between stress fibres and focal adhesions by CALI with EGFP fusion proteins. <i>Nature Cell Biology</i> , 2002, 4, 286-293.	10.3	174
7	Oxidized Low-Density Lipoprotein-Dependent Endothelial Arginase II Activation Contributes to Impaired Nitric Oxide Signaling. <i>Circulation Research</i> , 2006, 99, 951-960.	4.5	163
8	An inhibitory role for FAK in regulating proliferation: a link between limited adhesion and RhoA-ROCK signaling. <i>Journal of Cell Biology</i> , 2006, 174, 277-288.	5.2	158
9	Cell Traction Forces Direct Fibronectin Matrix Assembly. <i>Biophysical Journal</i> , 2009, 96, 729-738.	0.5	136
10	FAK Potentiates Rac1 Activation and Localization to Matrix Adhesion Sites: A Role for $\beta$ PIX. <i>Molecular Biology of the Cell</i> , 2007, 18, 253-264.	2.1	111
11	OxLDL-dependent activation of arginase II is dependent on the LOX-1 receptor and downstream RhoA signaling. <i>Atherosclerosis</i> , 2011, 214, 279-287.	0.8	110
12	pp60c-src and related tyrosine kinases: a role in the assembly and reorganization of matrix adhesions. <i>Journal of Cell Science</i> , 2001, 114, 2279-2289.	2.0	108
13	Mitochondrial dysfunction and cytoskeletal disruption during chemical hypoxia to cultured rat hepatic sinusoidal endothelial cells: The pH paradox and cytoprotection by glucose, acidotic pH, and glycine. <i>Hepatology</i> , 1998, 27, 1039-1049.	7.3	103
14	Dual-Gel 4D Printing of Bioinspired Tubes. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 8492-8498.	8.0	100
15	Caspase-dependent cleavage of myosin light chain kinase (MLCK) is involved in TNF-mediated bovine pulmonary endothelial cell apoptosis. <i>FASEB Journal</i> , 2003, 17, 407-416.	0.5	96
16	Endothelial cell adhesion, signaling, and morphogenesis in fibroblast-derived matrix. <i>Matrix Biology</i> , 2009, 28, 273-283.	3.6	79
17	Targeting Membrane-localized Focal Adhesion Kinase to Focal Adhesions. <i>Journal of Biological Chemistry</i> , 2003, 278, 29115-29120.	3.4	77
18	Receptor Protein Tyrosine Phosphatase $\beta$ 4 Regulates the Paracellular Pathway in Human Lung Microvascular Endothelia. <i>American Journal of Pathology</i> , 2005, 166, 1247-1258.	3.8	75

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19	Integrin $\alpha 2$ Mediates Selective Metastasis to the Liver. <i>Cancer Research</i> , 2009, 69, 7320-7328.	0.9	75
20	OxLDL Triggers Retrograde Translocation of Arginase2 in Aortic Endothelial Cells via ROCK and Mitochondrial Processing Peptidase. <i>Circulation Research</i> , 2014, 115, 450-459.	4.5	75
21	Signaling Pathways Involved in Adenosine Triphosphate-Induced Endothelial Cell Barrier Enhancement. <i>Circulation Research</i> , 2005, 97, 115-124.	4.5	72
22	Executive summary: surviving sepsis campaign international guidelines for the management of septic shock and sepsis-associated organ dysfunction in children. <i>Intensive Care Medicine</i> , 2020, 46, 1-9.	8.2	70
23	Frontiers in pulmonary hypertension in infants and children with bronchopulmonary dysplasia. <i>Pediatric Pulmonology</i> , 2012, 47, 1042-1053.	2.0	68
24	3D printing and characterization of a soft and biostable elastomer with high flexibility and strength for biomedical applications. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020, 104, 103649.	3.1	64
25	Regulation of Hyperoxia-induced NADPH Oxidase Activation in Human Lung Endothelial Cells by the Actin Cytoskeleton and Cortactin. <i>Journal of Biological Chemistry</i> , 2007, 282, 23284-23295.	3.4	63
26	Localization of Multiple Functional Domains on Human PECAM-1 (CD31) by Monoclonal Antibody Epitope Mapping. <i>Cell Adhesion and Communication</i> , 1995, 3, 45-66.	1.7	62
27	Tyrosine Phosphorylation of Rac1: A Role in Regulation of Cell Spreading. <i>PLoS ONE</i> , 2011, 6, e28587.	2.5	59
28	Microelastic properties of lung cell-derived extracellular matrix. <i>Acta Biomaterialia</i> , 2011, 7, 96-105.	8.3	57
29	A Predictive Model of Cell Traction Forces Based on Cell Geometry. <i>Biophysical Journal</i> , 2010, 99, L78-L80.	0.5	56
30	Transcriptional Regulation of Endothelial Arginase 2 by Histone Deacetylase 2. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2014, 34, 1556-1566.	2.4	55
31	Pulmonary Hypertension Therapy and a Systematic Review of Efficacy and Safety of PDE-5 Inhibitors. <i>Pediatrics</i> , 2017, 139, .	2.1	46
32	Cystathionine $\beta$ -lyase protects vascular endothelium: a role for inhibition of histone deacetylase 6. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2017, 312, H711-H720.	3.2	46
33	Trends in Hospitalization for Pediatric Pulmonary Hypertension. <i>Pediatrics</i> , 2015, 136, 241-250.	2.1	44
34	Opsin 3 and 4 mediate light-induced pulmonary vasorelaxation that is potentiated by G protein-coupled receptor kinase 2 inhibition. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2018, 314, L93-L106.	2.9	43
35	Direct Ink Writing of Poly(tetrafluoroethylene) (PTFE) with Tunable Mechanical Properties. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 28289-28295.	8.0	42
36	High Fidelity Functional Patterns of an Extracellular Matrix Protein by Electron Beam-Based Inactivation. <i>Journal of the American Chemical Society</i> , 2007, 129, 59-67.	13.7	38

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37	Shear force at the cell-matrix interface: enhanced analysis for microfabricated post array detectors. <i>Mcb Mechanics and Chemistry of Biosystems</i> , 2005, 2, 1-16.	0.3	37
38	A Self-Folding Hydrogel <i>In Vitro</i> Model for Ductal Carcinoma. <i>Tissue Engineering - Part C: Methods</i> , 2016, 22, 398-407.	2.1	36
39	Intracellular interaction of myosin light chain kinase with macrophage migration inhibition factor (MIF) in endothelium. <i>Journal of Cellular Biochemistry</i> , 2005, 95, 849-858.	2.6	35
40	Perioperative events in children with pulmonary hypertension undergoing non-cardiac procedures. <i>Pulmonary Circulation</i> , 2018, 8, 1-10.	1.7	30
41	Selective fluorescent labeling of S-nitrosothiols (S-FLOS): A novel method for studying S-nitrosation. <i>Nitric Oxide - Biology and Chemistry</i> , 2008, 19, 295-302.	2.7	28
42	Focal adhesion kinase is involved in type III group B streptococcal invasion of human brain microvascular endothelial cells. <i>Microbial Pathogenesis</i> , 2006, 41, 168-173.	2.9	26
43	Inhaled Epoprostenol Therapy for Pulmonary Hypertension: Improves Oxygenation Index More Consistently in Neonates than in Older Children. <i>Pulmonary Circulation</i> , 2012, 2, 61-66.	1.7	26
44	NEDDylation promotes endothelial dysfunction: A role for HDAC2. <i>Journal of Molecular and Cellular Cardiology</i> , 2015, 81, 18-22.	1.9	26
45	CSF HCO <sub>3</sub> <sup>-</sup> regulation in isosmotic conditions: The role of brain PCO <sub>2</sub> and plasma HCO <sub>3</sub> <sup>-</sup> . <i>Respiration Physiology</i> , 1978, 33, 177-198.	2.7	25
46	Biallelic variants of <i>ATP13A3</i> cause dose-dependent childhood-onset pulmonary arterial hypertension characterised by extreme morbidity and mortality. <i>Journal of Medical Genetics</i> , 2022, 59, 906-911.	3.2	22
47	Pediatric Residents Do Not Feel Prepared for the Most Unsettling Situations They Face in the Pediatric Intensive Care Unit. <i>Journal of Palliative Medicine</i> , 2011, 14, 25-30.	1.1	21
48	Hypoxia Triggers SENP1 (Sentrin-Specific Protease 1) Modulation of KLF15 (Kruppel-Like Factor 15) and Transcriptional Regulation of Arg2 (Arginase 2) in Pulmonary Endothelium. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2018, 38, 913-926.	2.4	21
49	Single exposure to radiation produces early anti-angiogenic effects in mouse aorta. <i>Radiation and Environmental Biophysics</i> , 2010, 49, 397-404.	1.4	19
50	Microinjection of Protein Tyrosine Phosphatases into Fibroblasts Disrupts Focal Adhesions and Stress Fibers. <i>Cell Adhesion and Communication</i> , 1998, 5, 207-219.	1.7	16
51	Biomimetic human small muscular pulmonary arteries. <i>Science Advances</i> , 2020, 6, eaaz2598.	10.3	16
52	Inositol hexakisphosphate kinase 3 promotes focal adhesion turnover via interactions with dynein intermediate chain 2. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 3278-3287.	7.1	14
53	Directing Multicellular Organization by Varying the Aspect Ratio of Soft Hydrogel Microwells. <i>Advanced Science</i> , 2022, 9, e2104649.	11.2	12
54	Patterning of Fibroblast and Matrix Anisotropy within 3D Confinement is Driven by the Cytoskeleton. <i>Advanced Healthcare Materials</i> , 2016, 5, 146-158.	7.6	11

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55	Oriented matrix promotes directional tubulogenesis. <i>Acta Biomaterialia</i> , 2015, 11, 264-273.	8.3	9
56	3D Hybrid Small Scale Devices. <i>Small</i> , 2018, 14, e1702497.	10.0	8
57	Hierarchically Curved Gelatin for 3D Biomimetic Cell Culture. <i>ACS Applied Bio Materials</i> , 2019, 2, 6004-6011.	4.6	7
58	HEYL Regulates Neoangiogenesis Through Overexpression in Both Breast Tumor Epithelium and Endothelium. <i>Frontiers in Oncology</i> , 2020, 10, 581459.	2.8	6
59	Endotoxin, tumor necrosis factor, and dexamethasone effects on human endothelial cell fibronectin dynamics: synthesis, matrix assembly, and receptor expression. <i>Biochemistry and Cell Biology</i> , 1995, 73, 515-524.	2.0	4
60	Micropatterns of an Extracellular Matrix Protein with Defined Information Content. <i>Langmuir</i> , 2007, 23, 10883-10886.	3.5	2
61	Arginase II: Atherogenesis Beyond Enzyme Activity. <i>Journal of the American Heart Association</i> , 2013, 2, e000392.	3.7	2
62	Endothelial Matrix Assembly during Capillary Morphogenesis. <i>Journal of Histochemistry and Cytochemistry</i> , 2014, 62, 774-790.	2.5	2
63	MECHANISMS OF FAK SIGNALING. 249. <i>Pediatric Research</i> , 1997, 41, 44-44.	2.3	2
64	Under Pressure: The Pulmonary Vasculature and Its Role in the Pediatric Cardiac ICU. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2021, 204, 391-392.	5.6	0
65	Arginase 2 activation via subcellular trafficking: A novel mechanism for vascular endothelial dysfunction in atherosclerosis. <i>FASEB Journal</i> , 2012, 26, lb654.	0.5	0
66	Transcriptional regulation of endothelial Arginase 2 by Histone Deacetylases and its role in atherosclerosis. <i>FASEB Journal</i> , 2013, 27, 875.2.	0.5	0
67	Abstract 665: Activation of Histone Deacetylase 2: A Novel Strategy for Reversing Vascular Dysfunction in Atherogenesis. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2014, 34, .	2.4	0
68	Neddylation Promotes Vascular Endothelial Dysfunction: A Role For Histone Deacetylases 2 and Arginase 2.. <i>FASEB Journal</i> , 2015, 29, 626.5.	0.5	0
69	Abstract 575: NEDDylation Promotes Endothelial Dysfunction: A Role for HDAC2. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2015, 35, .	2.4	0
70	Developing and characterizing human biomimetic arteriole for studying pulmonary hypertension. <i>FASEB Journal</i> , 2018, 32, 568.16.	0.5	0