

John Kolega

List of Publications by Year in descending order

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63
papers

3,058
citations

218592

26
h-index

197736

49
g-index

64
all docs

64
docs citations

64
times ranked

3276
citing authors

#	ARTICLE	IF	CITATIONS
1	Complex Hemodynamics at the Apex of an Arterial Bifurcation Induces Vascular Remodeling Resembling Cerebral Aneurysm Initiation. <i>Stroke</i> , 2007, 38, 1924-1931.	1.0	504
2	High Wall Shear Stress and Spatial Gradients in Vascular Pathology: A Review. <i>Annals of Biomedical Engineering</i> , 2013, 41, 1411-1427.	1.3	275
3	Phototoxicity and photoinactivation of blebbistatin in UV and visible light. <i>Biochemical and Biophysical Research Communications</i> , 2004, 320, 1020-1025.	1.0	165
4	Effects of Direct Current Electric Fields on Cell Migration and Actin Filament Distribution in Bovine Vascular Endothelial Cells. <i>Journal of Vascular Research</i> , 2002, 39, 391-404.	0.6	159
5	Characterization of Critical Hemodynamics Contributing to Aneurysmal Remodeling at the Basilar Terminus in a Rabbit Model. <i>Stroke</i> , 2010, 41, 1774-1782.	1.0	151
6	High Fluid Shear Stress and Spatial Shear Stress Gradients Affect Endothelial Proliferation, Survival, and Alignment. <i>Annals of Biomedical Engineering</i> , 2011, 39, 1620-1631.	1.3	132
7	Asymmetric Distribution of Myosin IIB in Migrating Endothelial Cells Is Regulated by a rho-dependent Kinase and Contributes to Tail Retraction. <i>Molecular Biology of the Cell</i> , 2003, 14, 4745-4757.	0.9	111
8	Nascent Aneurysm Formation at the Basilar Terminus Induced by Hemodynamics. <i>Stroke</i> , 2008, 39, 2085-2090.	1.0	108
9	Newtonian viscosity model could overestimate wall shear stress in intracranial aneurysm domes and underestimate rupture risk. <i>Journal of NeuroInterventional Surgery</i> , 2012, 4, 351-357.	2.0	98
10	MOLECULAR ALTERATIONS ASSOCIATED WITH ANEURYSMAL REMODELING ARE LOCALIZED IN THE HIGH HEMODYNAMIC STRESS REGION OF A CREATED CAROTID BIFURCATION. <i>Neurosurgery</i> , 2009, 65, 169-178.	0.6	93
11	Basement membrane heterogeneity and variation in corneal epithelial differentiation. <i>Differentiation</i> , 1989, 42, 54-63.	1.0	92
12	Cellular and Molecular Responses of the Basilar Terminus to Hemodynamics during Intracranial Aneurysm Initiation in a Rabbit Model. <i>Journal of Vascular Research</i> , 2011, 48, 429-442.	0.6	91
13	Intracranial Aneurysms Occur More Frequently at Bifurcation Sites That Typically Experience Higher Hemodynamic Stresses. <i>Neurosurgery</i> , 2013, 73, 497-505.	0.6	76
14	Endothelial Cell Layer Subjected to Impinging Flow Mimicking the Apex of an Arterial Bifurcation. <i>Annals of Biomedical Engineering</i> , 2008, 36, 1681-1689.	1.3	74
15	The Role of Myosin II Motor Activity in Distributing Myosin Asymmetrically and Coupling Protrusive Activity to Cell Translocation. <i>Molecular Biology of the Cell</i> , 2006, 17, 4435-4445.	0.9	73
16	A MODEL SYSTEM FORMAPPING VASCULARRESPONSES TO COMPLEX HEMODYNAMICS AT ARTERIAL BIFURCATIONS IN VIVO. <i>Neurosurgery</i> , 2006, 59, 1094-1101.	0.6	72
17	Progressive aneurysm development following hemodynamic insult. <i>Journal of Neurosurgery</i> , 2011, 114, 1095-1103.	0.9	67
18	Endothelial cells express a unique transcriptional profile under very high wall shear stress known to induce expansive arterial remodeling. <i>American Journal of Physiology - Cell Physiology</i> , 2012, 302, C1109-C1118.	2.1	65

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19	Nitric oxide-dependent stimulation of endothelial cell proliferation by sustained high flow. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2008, 295, H736-H742.	1.5	61
20	Differential gene expression by endothelial cells under positive and negative streamwise gradients of high wall shear stress. <i>American Journal of Physiology - Cell Physiology</i> , 2013, 305, C854-C866.	2.1	48
21	Endothelial cell protrusion and migration in three-dimensional collagen matrices. <i>Cytoskeleton</i> , 2006, 63, 101-115.	4.4	46
22	The Asymmetric Vascular Stent. <i>Stroke</i> , 2009, 40, 959-965.	1.0	38
23	Increased Perviousness on CT for Acute Ischemic Stroke is Associated with Fibrin/Platelet-Rich Clots. <i>American Journal of Neuroradiology</i> , 2021, 42, 57-64.	1.2	36
24	A Critical Role for Proinflammatory Behavior of Smooth Muscle Cells in Hemodynamic Initiation of Intracranial Aneurysm. <i>PLoS ONE</i> , 2013, 8, e74357.	1.1	31
25	Biomarkers from circulating neutrophil transcriptomes have potential to detect unruptured intracranial aneurysms. <i>Journal of Translational Medicine</i> , 2018, 16, 373.	1.8	30
26	Asymmetric Vascular Stent. <i>Stroke</i> , 2008, 39, 2105-2113.	1.0	29
27	Aneurysmal Remodeling in the Circle of Willis after Carotid Occlusion in an Experimental Model. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2014, 34, 415-424.	2.4	28
28	Circulating neutrophil transcriptome may reveal intracranial aneurysm signature. <i>PLoS ONE</i> , 2018, 13, e0191407.	1.1	28
29	Potential of Machine-Vision Light Microscopy in Toxicologic Pathology. <i>Toxicologic Pathology</i> , 1994, 22, 145-159.	0.9	25
30	Mapping vascular response to in vivo Hemodynamics: application to increased flow at the basilar terminus. <i>Biomechanics and Modeling in Mechanobiology</i> , 2010, 9, 421-434.	1.4	25
31	Regulatory light chain phosphorylation and the assembly of myosin II into the cytoskeleton of microcapillary endothelial cells. <i>Cytoskeleton</i> , 1999, 43, 255-268.	4.4	24
32	Endothelial Nitric Oxide Synthase and Superoxide Mediate Hemodynamic Initiation of Intracranial Aneurysms. <i>PLoS ONE</i> , 2014, 9, e101721.	1.1	21
33	Asymmetry in the Distribution of Free versus Cytoskeletal Myosin II in Locomoting Microcapillary Endothelial Cells. <i>Experimental Cell Research</i> , 1997, 231, 66-82.	1.2	20
34	Fluorescent analogues of myosin II for tracking the behavior of different myosin isoforms in living cells. , 1998, 68, 389-401.		18
35	Hypertension and Estrogen Deficiency Augment Aneurysmal Remodeling in the Rabbit Circle of Willis in Response to Carotid Ligation. <i>Anatomical Record</i> , 2015, 298, 1903-1910.	0.8	15
36	Whole blood transcriptome biomarkers of unruptured intracranial aneurysm. <i>PLoS ONE</i> , 2020, 15, e0241838.	1.1	15

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37	Assessment of Vascular Geometry for Bilateral Carotid Artery Ligation to Induce Early Basilar Terminus Aneurysmal Remodeling in Rats. <i>Current Neurovascular Research</i> , 2016, 13, 82-92.	0.4	13
38	Classification models using circulating neutrophil transcripts can detect unruptured intracranial aneurysm. <i>Journal of Translational Medicine</i> , 2020, 18, 392.	1.8	13
39	A role for microtubules in endothelial cell protrusion in three-dimensional matrices. <i>Biology of the Cell</i> , 2012, 104, 271-286.	0.7	11
40	Epigenetic landscapes suggest that genetic risk for intracranial aneurysm operates on the endothelium. <i>BMC Medical Genomics</i> , 2019, 12, 149.	0.7	11
41	Endogenous animal models of intracranial aneurysm development: a review. <i>Neurosurgical Review</i> , 2021, 44, 2545-2570.	1.2	11
42	A machine learning pipeline revealing heterogeneous responses to drug perturbations on vascular smooth muscle cell spheroid morphology and formation. <i>Scientific Reports</i> , 2021, 11, 23285.	1.6	11
43	High Wall Shear Stress and Positive Wall Shear Stress Gradient Trigger the Initiation of Intracranial Aneurysms. , 2009, , .		6
44	RNA Sequencing Data from Human Intracranial Aneurysm Tissue Reveals a Complex Inflammatory Environment Associated with Rupture. <i>Molecular Diagnosis and Therapy</i> , 2021, 25, 775-790.	1.6	6
45	9.4T Magnetic Resonance Imaging of the Mouse Circle of Willis Enables Serial Characterization of Flow-Induced Vascular Remodeling by Computational Fluid Dynamics. <i>Current Neurovascular Research</i> , 2019, 15, 312-325.	0.4	6
46	Turnover rates at regulatory phosphorylation sites on myosin II in endothelial cells. , 1999, 75, 629-639.		5
47	The association between hemodynamics and wall characteristics in human intracranial aneurysms: a review. <i>Neurosurgical Review</i> , 2022, 45, 49-61.	1.2	5
48	Aneurysmal Changes at the Basilar Terminus in the Rabbit Elastase Aneurysm Model. <i>American Journal of Neuroradiology</i> , 2010, 31, E35-E36.	1.2	4
49	Identification of intima-to-media signals for flow-induced vascular remodeling using correlative gene expression analysis. <i>Scientific Reports</i> , 2021, 11, 16142.	1.6	4
50	Chapter 11 Regulation of Actin and Myosin II Dynamics in Living Cells. <i>Current Topics in Membranes</i> , 1991, 38, 187-206.	0.5	3
51	Inhibition of stretch-activated ion channels on endothelial cells disrupts nitric oxide-mediated arterial outward remodeling. <i>Journal of Biorheology</i> , 2010, 24, 77-83.	0.2	3
52	Tissue-specific distribution of a novel component of epithelial basement membranes. <i>Experimental Cell Research</i> , 1990, 189, 213-221.	1.2	2
53	Early Cellular and Molecular Changes During Hemodynamic Initiation of Intracranial Aneurysms in a Rabbit Model. , 2010, , .		0
54	Positive and Negative Wall Shear Stress Gradients Have Different Effects on Endothelial Phenotype Under High Wall Shear Stress. , 2011, , .		0

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55	Differential Gene Expression of Endothelial Cells Under High Wall Shear Stress and Spatial Gradients. , 2010, , .		0
56	Role of Hemodynamics in Initiation of Aneurysmal Remodeling. , 2010, , .		0
57	Differential Responses of Endothelial Cells to Positive and Negative Wall Shear Stress Gradients. , 2010, , .		0
58	Cellular and Molecular Control of Direct Cell Interactions. Proceedings of Lectures Held September 10-12, 1984, in Banyuls-sur-Mer, France.H.-J. Marthy. Quarterly Review of Biology, 1987, 62, 76-77.	0.0	0
59	The Cell in Contact. Adhesions and Junctions as Morphogenetic Determinants.Gerald M. Edelman , Jean-Paul Thiery. Quarterly Review of Biology, 1987, 62, 77-77.	0.0	0
60	Whole blood transcriptome biomarkers of unruptured intracranial aneurysm. , 2020, 15, e0241838.		0
61	Whole blood transcriptome biomarkers of unruptured intracranial aneurysm. , 2020, 15, e0241838.		0
62	Whole blood transcriptome biomarkers of unruptured intracranial aneurysm. , 2020, 15, e0241838.		0
63	Whole blood transcriptome biomarkers of unruptured intracranial aneurysm. , 2020, 15, e0241838.		0