

Hua Su

List of Publications by Year in descending order

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106
papers

4,871
citations

76326

40
h-index

106344

65
g-index

108
all docs

108
docs citations

108
times ranked

5954
citing authors

#	ARTICLE	IF	CITATIONS
1	MicroRNA-9 Coordinates Proliferation and Migration of Human Embryonic Stem Cell-Derived Neural Progenitors. <i>Cell Stem Cell</i> , 2010, 6, 323-335.	11.1	307
2	Endothelial progenitor cell transplantation improves long-term stroke outcome in mice. <i>Annals of Neurology</i> , 2010, 67, 488-497.	5.3	271
3	Essential Regulation of CNS Angiogenesis by the Orphan G Protein-Coupled Receptor GPR124. <i>Science</i> , 2010, 330, 985-989.	12.6	247
4	Coexpression of VEGF and angiopoietin-1 promotes angiogenesis and cardiomyocyte proliferation reduces apoptosis in porcine myocardial infarction (MI) heart. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 2064-2069.	7.1	158
5	Adeno-associated viral vector-mediated hypoxia response element-regulated gene expression in mouse ischemic heart model. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 9480-9485.	7.1	130
6	VEGF improves survival of mesenchymal stem cells in infarcted hearts. <i>Biochemical and Biophysical Research Communications</i> , 2008, 376, 419-422.	2.1	127
7	Depletion of Bone Marrow-derived Macrophages Perturbs the Innate Immune Response to Surgery and Reduces Postoperative Memory Dysfunction. <i>Anesthesiology</i> , 2013, 118, 527-536.	2.5	127
8	Brain Arteriovenous Malformation Pathogenesis: A Response-to-Injury Paradigm. <i>Acta Neurochirurgica Supplementum</i> , 2011, 111, 83-92.	1.0	117
9	Arteriovenous malformation in the adult mouse brain resembling the human disease. <i>Annals of Neurology</i> , 2011, 69, 954-962.	5.3	109
10	Adeno-associated viral vector delivers cardiac-specific and hypoxia-inducible VEGF expression in ischemic mouse hearts. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 16280-16285.	7.1	104
11	Bevacizumab Attenuates VEGF-Induced Angiogenesis and Vascular Malformations in the Adult Mouse Brain. <i>Stroke</i> , 2012, 43, 1925-1930.	2.0	101
12	Selective Killing of AFP-Positive Hepatocellular Carcinoma Cells by Adeno-Associated Virus Transfer of the Herpes Simplex Virus Thymidine Kinase Gene. <i>Human Gene Therapy</i> , 1996, 7, 463-470.	2.7	95
13	Alpha-7 nicotinic acetylcholine receptor agonist treatment reduces neuroinflammation, oxidative stress, and brain injury in mice with ischemic stroke and bone fracture. <i>Journal of Neurochemistry</i> , 2014, 131, 498-508.	3.9	94
14	Novel Brain Arteriovenous Malformation Mouse Models for Type 1 Hereditary Hemorrhagic Telangiectasia. <i>PLoS ONE</i> , 2014, 9, e88511.	2.5	94
15	Activation of α -7 Nicotinic Acetylcholine Receptor Reduces Ischemic Stroke Injury through Reduction of Pro-Inflammatory Macrophages and Oxidative Stress. <i>PLoS ONE</i> , 2014, 9, e105711.	2.5	88
16	Adeno-Associated Viral Vector-Mediated Hypoxia-Inducible Vascular Endothelial Growth Factor Gene Expression Attenuates Ischemic Brain Injury After Focal Cerebral Ischemia in Mice. <i>Stroke</i> , 2006, 37, 2601-2606.	2.0	85
17	SIRT3 Protects Rotenone-induced Injury in SH-SY5Y Cells by Promoting Autophagy through the LKB1-AMPK-mTOR Pathway. <i>Journal of Neurochemistry</i> , 2018, 9, 273.		85
18	Reductions in brain pericytes are associated with arteriovenous malformation vascular instability. <i>Journal of Neurosurgery</i> , 2018, 129, 1464-1474.	1.6	84

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19	Reduced Mural Cell Coverage and Impaired Vessel Integrity After Angiogenic Stimulation in the <i>Alk1</i> -deficient Brain. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2013, 33, 305-310.	2.4	82
20	Silent Intralesional Microhemorrhage as a Risk Factor for Brain Arteriovenous Malformation Rupture. <i>Stroke</i> , 2012, 43, 1240-1246.	2.0	78
21	Sca-1+ Cardiosphere-Derived Cells Are Enriched for Isl1-Expressing Cardiac Precursors and Improve Cardiac Function after Myocardial Injury. <i>PLoS ONE</i> , 2012, 7, e30329.	2.5	75
22	Minimal Homozygous Endothelial Deletion of <i>Eng</i> with VEGF Stimulation Is Sufficient to Cause Cerebrovascular Dysplasia in the Adult Mouse. <i>Cerebrovascular Diseases</i> , 2012, 33, 540-547.	1.7	74
23	De Novo Cerebrovascular Malformation in the Adult Mouse After Endothelial <i>Alk1</i> Deletion and Angiogenic Stimulation. <i>Stroke</i> , 2014, 45, 900-902.	2.0	74
24	Coexpression of Angiopoietin-1 with VEGF Increases the Structural Integrity of the Blood-Brain Barrier and Reduces Atrophy Volume. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2011, 31, 2343-2351.	4.3	65
25	AAV-mediated netrin-1 overexpression increases peri-infarct blood vessel density and improves motor function recovery after experimental stroke. <i>Neurobiology of Disease</i> , 2011, 44, 73-83.	4.4	64
26	VEGF Induces More Severe Cerebrovascular Dysplasia in <i>Eng</i> ^{+/Δ} than in <i>Alk1</i> ^{+/Δ} Mice. <i>Translational Stroke Research</i> , 2010, 1, 197-201.	4.2	60
27	Overexpression of Netrin-1 Induces Neovascularization in the Adult Mouse Brain. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2008, 28, 1543-1551.	4.3	59
28	Reduced Expression of Integrin α ^v β ³ Is Associated with Brain Arteriovenous Malformation Pathogenesis. <i>American Journal of Pathology</i> , 2010, 176, 1018-1027.	3.8	56
29	SIRT3 Acts as a Neuroprotective Agent in Rotenone-Induced Parkinson Cell Model. <i>Neurochemical Research</i> , 2016, 41, 1761-1773.	3.3	56
30	Thalidomide Reduces Hemorrhage of Brain Arteriovenous Malformations in a Mouse Model. <i>Stroke</i> , 2018, 49, 1232-1240.	2.0	56
31	Attenuation of Brain Response to Vascular Endothelial Growth Factor-Mediated Angiogenesis and Neurogenesis in Aged Mice. <i>Stroke</i> , 2009, 40, 3596-3600.	2.0	55
32	Neutrophil Depletion Decreases VEGF-Induced Focal Angiogenesis in the Mature Mouse Brain. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2007, 27, 1853-1860.	4.3	54
33	Brain Arteriovenous Malformation Modeling, Pathogenesis, and Novel Therapeutic Targets. <i>Translational Stroke Research</i> , 2014, 5, 316-329.	4.2	54
34	Adeno-associated viral vector-mediated gene transfer of VEGF normalizes skeletal muscle oxygen tension and induces arteriogenesis in ischemic rat hindlimb. <i>Molecular Therapy</i> , 2003, 7, 44-51.	8.2	50
35	Brain Arteriovenous Malformation Biology Relevant to Hemorrhage and Implication for Therapeutic Development. <i>Stroke</i> , 2009, 40, S95-7.	2.0	50
36	AAV Serotype-1 mediates early onset of gene expression in mouse hearts and results in better therapeutic effect. <i>Gene Therapy</i> , 2006, 13, 1495-1502.	4.5	49

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37	Combining angiogenic gene and stem cell therapies for myocardial infarction. <i>Journal of Gene Medicine</i> , 2009, 11, 743-753.	2.8	48
38	Ferumoxytol-Enhanced MRI to Image Inflammation Within Human Brain Arteriovenous Malformations: a Pilot Investigation. <i>Translational Stroke Research</i> , 2012, 3, 166-173.	4.2	48
39	Single-cell RNA sequencing reveals gene expression signatures of breast cancer-associated endothelial cells. <i>Oncotarget</i> , 2018, 9, 10945-10961.	1.8	45
40	Increased tissue perfusion promotes capillary dysplasia in the ALK1-deficient mouse brain following VEGF stimulation. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2008, 295, H2250-H2256.	3.2	41
41	Bone Marrow-Derived Cells Contribute to Vascular Endothelial Growth Factor-Induced Angiogenesis in the Adult Mouse Brain by Supplying Matrix Metalloproteinase-9. <i>Stroke</i> , 2011, 42, 453-458.	2.0	41
42	Persistent infiltration and pro-inflammatory differentiation of monocytes cause unresolved inflammation in brain arteriovenous malformation. <i>Angiogenesis</i> , 2016, 19, 451-461.	7.2	41
43	Bone Fracture Exacerbates Murine Ischemic Cerebral Injury. <i>Anesthesiology</i> , 2013, 118, 1362-1372.	2.5	41
44	Soluble endoglin modulates aberrant cerebral vascular remodeling. <i>Annals of Neurology</i> , 2009, 66, 19-27.	5.3	39
45	Risk factors for hemorrhage of brain arteriovenous malformation. <i>CNS Neuroscience and Therapeutics</i> , 2019, 25, 1085-1095.	3.9	39
46	Increased Inflammatory Response in Old Mice is Associated with More Severe Neuronal Injury at the Acute Stage of Ischemic Stroke. , 2018, 10, 12-22.		37
47	Recombinant adeno-associated viral vector encoding human VEGF165 induces neomicrovessel formation in the adult mouse brain. <i>Frontiers in Bioscience - Landmark</i> , 2006, 11, 3190.	3.0	35
48	Higher Flow Is Present in Unruptured Arteriovenous Malformations With Silent Intralesional Microhemorrhages. <i>Stroke</i> , 2017, 48, 2881-2884.	2.0	35
49	Additive effect of AAV-mediated angiopoietin-1 and VEGF expression on the therapy of infarcted heart. <i>International Journal of Cardiology</i> , 2009, 133, 191-197.	1.7	34
50	Recent Advances in Basic Research for Brain Arteriovenous Malformation. <i>International Journal of Molecular Sciences</i> , 2019, 20, 5324.	4.1	34
51	Contribution of Bone Marrow-Derived Cells Associated With Brain Angiogenesis Is Primarily Through CD69. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2008, 28, 2151-2157.	2.4	32
52	Nonischemic cerebral venous hypertension promotes a pro-angiogenic stage through HIF-1 downstream genes and leukocyte-derived MMP-9. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2009, 29, 1482-1490.	4.3	32
53	Carnosic Acid Prevents Beta-Amyloid-Induced Injury in Human Neuroblastoma SH-SY5Y Cells via the Induction of Autophagy. <i>Neurochemical Research</i> , 2016, 41, 2311-2323.	3.3	32
54	Endovascular Biopsy: In Vivo Cerebral Aneurysm Endothelial Cell Sampling and Gene Expression Analysis. <i>Translational Stroke Research</i> , 2018, 9, 20-33.	4.2	32

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55	Adeno-Associated Viral-Mediated Gene Transfer to Hepatoma: Thymidine Kinase/Interleukin 2 Is More Effective in Tumor Killing in Non-Ganciclovir (GCV)-Treated Than in GCV-Treated Animals. <i>Molecular Therapy</i> , 2000, 1, 509-515.	8.2	31
56	Evidence of Endothelial Progenitor Cells in the Human Brain and Spinal Cord Arteriovenous Malformations. <i>Neurosurgery</i> , 2010, 67, 1029-1035.	1.1	31
57	Effect of elevation of vascular endothelial growth factor level on exacerbation of hemorrhage in mouse brain arteriovenous malformation. <i>Journal of Neurosurgery</i> , 2020, 132, 1566-1573.	1.6	27
58	Isolation of a phylogenetically conserved and testis-specific gene using a monoclonal antibody against the serological H-Y antigen. <i>Journal of Reproductive Immunology</i> , 1992, 21, 275-291.	1.9	25
59	Distinctive distribution of lymphocytes in unruptured and previously untreated brain arteriovenous malformation. <i>Neuroimmunology and Neuroinflammation</i> , 2014, 1, 147.	1.4	24
60	Cerebrovascular Casting of the Adult Mouse for 3D Imaging and Morphological Analysis. <i>Journal of Visualized Experiments</i> , 2011, , e2958.	0.3	23
61	Impact and risk factors of post-stroke bone fracture. <i>World Journal of Experimental Medicine</i> , 2016, 6, 1.	1.7	23
62	Intravenous Delivery of Adeno-Associated Viral Vector Serotype 9 Mediates Effective Gene Expression in Ischemic Stroke Lesion and Brain Angiogenic Foci. <i>Stroke</i> , 2013, 44, 252-254.	2.0	22
63	Activation of Alpha-7 Nicotinic Acetylcholine Receptor Reduces Brain Edema in Mice with Ischemic Stroke and Bone Fracture. <i>Molecular Neurobiology</i> , 2017, 54, 8278-8286.	4.0	22
64	Endoglin Deficiency in Bone Marrow is Sufficient to Cause Cerebrovascular Dysplasia in the Adult Mouse After Vascular Endothelial Growth Factor Stimulation. <i>Stroke</i> , 2013, 44, 795-798.	2.0	21
65	Endoglin Deficiency Impairs Stroke Recovery. <i>Stroke</i> , 2014, 45, 2101-2106.	2.0	21
66	Soluble FLT1 Gene Therapy Alleviates Brain Arteriovenous Malformation Severity. <i>Stroke</i> , 2017, 48, 1420-1423.	2.0	20
67	Vascular Integrity in the Pathogenesis of Brain Arteriovenous Malformation. <i>Acta Neurochirurgica Supplementum</i> , 2016, 121, 29-35.	1.0	20
68	Weak Organic Acids Decrease <i>Borrelia burgdorferi</i> Cytoplasmic pH, Eliciting an Acid Stress Response and Impacting RpoN- and RpoS-Dependent Gene Expression. <i>Frontiers in Microbiology</i> , 2017, 8, 1734.	3.5	19
69	Review of treatment and therapeutic targets in brain arteriovenous malformation. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2021, 41, 3141-3156.	4.3	18
70	Integrin β 28 Deletion Enhances Vascular Dysplasia and Hemorrhage in the Brain of Adult Alk1 Heterozygous Mice. <i>Translational Stroke Research</i> , 2016, 7, 488-496.	4.2	16
71	Induction of Brain Arteriovenous Malformation in the Adult Mouse. <i>Methods in Molecular Biology</i> , 2014, 1135, 309-316.	0.9	16
72	Restoring Transcription Factor HoxA5 Expression Inhibits the Growth of Experimental Hemangiomas in the Brain. <i>Journal of Neuropathology and Experimental Neurology</i> , 2009, 68, 626-632.	1.7	15

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73	Endovascular Biopsy: Evaluating the Feasibility of Harvesting Endothelial Cells Using Detachable Coils. <i>Interventional Neuroradiology</i> , 2013, 19, 399-408.	1.1	15
74	Endothelial cell high-enrichment from endovascular biopsy sample by laser capture microdissection and fluorescence activated cell sorting. <i>Journal of Biotechnology</i> , 2014, 192, 34-39.	3.8	14
75	Perlecan domain V is upregulated in human brain arteriovenous malformation and could mediate the vascular endothelial growth factor effect in lesional tissue. <i>NeuroReport</i> , 2012, 23, 627-630.	1.2	13
76	Bone Fracture Pre-Ischemic Stroke Exacerbates Ischemic Cerebral Injury in Mice. <i>PLoS ONE</i> , 2016, 11, e0153835.	2.5	13
77	Endovascular biopsy: Technical feasibility of novel endothelial cell harvesting devices assessed in a rabbit aneurysm model. <i>Interventional Neuroradiology</i> , 2015, 21, 120-128.	1.1	12
78	Somatic mosaicism in the MAPK pathway in sporadic brain arteriovenous malformation and association with phenotype. <i>Journal of Neurosurgery</i> , 2022, 136, 148-155.	1.6	12
79	Adeno-Associated Viral Vector-Delivered Hypoxia-Inducible Gene Expression in Ischemic Hearts. <i>Methods in Molecular Biology</i> , 2007, 366, 331-342.	0.9	11
80	Endovascular biopsy: Strategy for analyzing gene expression profiles of individual endothelial cells obtained from human vessels. <i>Biotechnology Reports (Amsterdam, Netherlands)</i> , 2015, 7, 157-165.	4.4	11
81	Impact of Bone Fracture on Ischemic Stroke Recovery. <i>International Journal of Molecular Sciences</i> , 2018, 19, 1533.	4.1	11
82	Induction of Brain Arteriovenous Malformation Through CRISPR/Cas9-Mediated Somatic Alk1 Gene Mutations in Adult Mice. <i>Translational Stroke Research</i> , 2019, 10, 557-565.	4.2	11
83	Perlecan domain V is upregulated in human brain arteriovenous malformation and could mediate the vascular endothelial growth factor effect in lesional tissue. <i>NeuroReport</i> , 2012, 23, 627-630.	1.2	10
84	The Role of Macrophage in the Pathogenesis of Brain Arteriovenous Malformation. <i>International Journal of Hematology Research</i> , 2015, 1, 52-56.	0.2	10
85	The roles of endoglin gene in cerebrovascular diseases. <i>Neuroimmunology and Neuroinflammation</i> , 2017, 4, 199.	1.4	10
86	Morphometric characterization of brain arteriovenous malformations for clinical and radiological studies to identify silent intralesional microhemorrhages. , 2016, 35, 114-121.		10
87	Cytogenetic and molecular studies of a familial paracentric inversion of Y chromosome present in a patient with ambiguous genitalia. <i>American Journal of Medical Genetics Part A</i> , 1997, 70, 134-137.	2.4	9
88	Proof-of-concept single-arm trial of bevacizumab therapy for brain arteriovenous malformation. <i>BMJ Neurology Open</i> , 2021, 3, e000114.	1.6	9
89	Adult Mouse Venous Hypertension Model: Common Carotid Artery to External Jugular Vein Anastomosis.. <i>Journal of Visualized Experiments</i> , 2015, , 50472.	0.3	8
90	Reduction of neuroinflammation alleviated mouse post bone fracture and stroke memory dysfunction. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2021, 41, 2162-2173.	4.3	8

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91	Bone Marrow-Derived Alk1 Mutant Endothelial Cells and Clonally Expanded Somatic Alk1 Mutant Endothelial Cells Contribute to the Development of Brain Arteriovenous Malformations in Mice. <i>Translational Stroke Research</i> , 2022, 13, 494-504.	4.2	8
92	Fracture shortly before stroke in mice leads to hippocampus inflammation and long-lasting memory dysfunction. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2020, 40, 446-455.	4.3	7
93	Treatment of Focal Brain Ischemia with Viral Vector-Mediated Gene Transfer. <i>Methods in Molecular Biology</i> , 2011, 686, 429-446.	0.9	7
94	Reduction of endoglin receptor impairs mononuclear cell-migration. , 2020, 1, 136-148.		7
95	Demonstration of a stage-specific expression of the zfy protein in fetal mouse testis using anti-peptide antibodies. <i>Molecular Reproduction and Development</i> , 1992, 33, 252-258.	2.0	6
96	Risk factors for ischemic stroke post bone fracture. <i>Journal of Clinical Neuroscience</i> , 2019, 59, 224-228.	1.5	5
97	Genetics and Vascular Biology of Angiogenesis and Vascular Malformations. , 2016, , 149-162.e7.		4
98	Brain vascular biology. <i>Handbook of Clinical Neurology</i> / Edited By P J Vinken and G W Bruyn, 2021, 176, 49-69.	1.8	4
99	The role of mural cells in hemorrhage of brain arteriovenous malformation. <i>Brain Hemorrhages</i> , 2021, 2, 49-56.	1.0	4
100	Bone Fracture Enhanced Blood-Brain Barrier Breakdown in the Hippocampus and White Matter Damage of Stroke Mice. <i>International Journal of Molecular Sciences</i> , 2020, 21, 8481.	4.1	3
101	Inflammation and genetic factors in stroke pathogenesis. <i>Neuroimmunology and Neuroinflammation</i> , 2017, 4, 260.	1.4	3
102	Abstract TMP69: Endoglin Deficiency Exacerbates Ischemic Brain Injury. <i>Stroke</i> , 2013, 44, .	2.0	1
103	Animal Models and Prospective Therapeutic Targets for Brain Arteriovenous Malformation. , 2018, , 83-126.		0
104	Concurrent presentation of brain arteriovenous malformation, peripheral arteriovenous malformation, and cerebellar astrocytoma: Case report. <i>Interdisciplinary Neurosurgery: Advanced Techniques and Case Management</i> , 2020, 20, 100689.	0.3	0
105	Genetics and Vascular Biology of Brain Vascular Malformations. , 2022, , 138-152.e8.		0
106	Potential Targets for the Treatment of Brain Arteriovenous Malformations. <i>Translational Stroke Research</i> , 0, , .	4.2	0