Ruowen Ge

List of Publications by Year in descending order

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87 papers	3,876 citations	126907 33 h-index	128289 60 g-index
89 all docs	89 docs citations	89 times ranked	5032 citing authors

#	Article	IF	Citations
1	Crystal structure of an avian influenza polymerase PAN reveals an endonuclease active site. Nature, 2009, 458, 909-913.	27.8	437
2	Crystal structure of the polymerase PACâ€“PB1N complex from an avian influenza H5N1 virus. Nature, 2008, 454, 1123-1126.	27.8	248
3	The role of vascular endothelial growth factor (VEGF) in vasculogenesis, angiogenesis, and hematopoiesis in zebrafish development. Mechanisms of Development, 2001, 108, 29-43.	1.7	200
4	A micromanipulation system with dynamic force-feedback for automatic batch microinjection. Journal of Micromechanics and Microengineering, 2007, 17, 314-321.	2.6	167
5	Exosomes in Cancer Microenvironment and Beyond: have we Overlooked these Extracellular Messengers?. Cancer Microenvironment, 2012, 5, 323-332.	3.1	128
6	Histone deacetylase 3 (hdac3) is specifically required for liver development in zebrafish. Developmental Biology, 2008, 317, 336-353.	2.0	112
7	Combining pharmacological mobilization with intramyocardial delivery ofÂbone marrow cells over-expressing VEGF is more effective forÂcardiac repair. Journal of Molecular and Cellular Cardiology, 2006, 40, 736-745.	1.9	107
8	Dll4-containing exosomes induce capillary sprout retraction in a 3D microenvironment. Scientific Reports, 2014, 4, 4031.	3.3	94
9	Cloning and characterization of vascular endothelial growth factor (VEGF) from zebrafish, Danio rerio. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 1998, 1397, 14-20.	2.4	88
10	Angiopoietin 1 Promotes Tumor Angiogenesis and Tumor Vessel Plasticity of Human Cervical Cancer in Mice. Experimental Cell Research, 2002, 279, 299-309.	2.6	86
11	Angiomyogenesis for cardiac repair using human myoblasts as carriers of human vascular endothelial growth factor. Journal of Molecular Medicine, 2004, 82, 539-549.	3.9	84
12	Cloning, characterisation and expression of Aeromonas hydrophila major adhesin. Fish and Shellfish Immunology, 2004, 16, 645-658.	3.6	84
13	Transplantation of Nanoparticle Transfected Skeletal Myoblasts Overexpressing Vascular Endothelial Growth Factor-165 for Cardiac Repair. Circulation, 2007, 116, I113-20.	1.6	79
14	Peptides Derived from Human Decorin Leucine-rich Repeat 5 Inhibit Angiogenesis. Journal of Biological Chemistry, 2005, 280, 27935-27948.	3.4	69
15	Emerging Roles of ADAMTSs in Angiogenesis and Cancer. Cancers, 2012, 4, 1252-1299.	3.7	66
16	ADAMTS5 Functions as an Anti-Angiogenic and Anti-Tumorigenic Protein Independent of Its Proteoglycanase Activity. American Journal of Pathology, 2012, 181, 1056-1068.	3.8	65
17	Isthmin targets cell-surface GRP78 and triggers apoptosis via induction of mitochondrial dysfunction. Cell Death and Differentiation, 2014, 21, 797-810.	11.2	61
18	Isthmin is a novel secreted angiogenesis inhibitor that inhibits tumour growth in mice. Journal of Cellular and Molecular Medicine, 2011, 15, 359-374.	3.6	59

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19	Novel endogenous angiogenesis inhibitors and their therapeutic potential. Acta Pharmacologica Sinica, 2015, 36, 1177-1190.	6.1	59
20	Developing Antiangiogenic Peptide Drugs for Angiogenesis-Related Diseases. Current Pharmaceutical Design, 2007, 13, 2074-2086.	1.9	58
21	Inhibition of angiopoietin-1 expression in tumor cells by an antisense RNA approach inhibited xenograft tumor growth in immunodeficient mice. International Journal of Cancer, 2001, 94, 6-15.	5.1	55
22	Pharmacologically induced angiogenesis in transgenic zebrafish. Biochemical and Biophysical Research Communications, 2009, 378, 766-771.	2.1	53
23	fgfr3 and regionalization of anterior neural tube in zebrafish. Mechanisms of Development, 2001, 102, 213-217.	1.7	52
24	Nanoparticle based delivery of hypoxia-regulated VEGF transgene system combined with myoblast engraftment for myocardial repair. Biomaterials, 2011, 32, 2424-2431.	11.4	52
25	An Adenovirus Recombinant that Expresses the Human Cytomegalovirus Major Envelope Glycoprotein and Induces Neutralizing Antibodies. Journal of Infectious Diseases, 1990, 162, 1177-1181.	4.0	49
26	Loss of ADAMTS4 reduces high fat diet-induced atherosclerosis and enhances plaque stability in ApoEâˆ’/âˆ’ mice. Scientific Reports, 2016, 6, 31130.	3.3	46
27	Isthmin exerts pro-survival and death-promoting effect on endothelial cells through alphavbeta5 integrin depending on its physical state. Cell Death and Disease, 2011, 2, e153-e153.	6.3	45
28	Developing inhaled protein therapeutics for lung diseases. Molecular Biomedicine, 2020, 1, 11.	4.4	45
29	Novel hydrogen sulfide-releasing compound, S-propargyl-cysteine, prevents STZ-induced diabetic nephropathy. Biochemical and Biophysical Research Communications, 2016, 473, 931-938.	2.1	41
30	Improved angiogenic response in pig heart following ischaemic injury using human skeletal myoblast simultaneously expressing VEGF165and angiopoietin-1. European Journal of Heart Failure, 2007, 9, 15-22.	7.1	39
31	ADAMTS4 and its proteolytic fragments differentially affect melanoma growth and angiogenesis in mice. International Journal of Cancer, 2013, 133, 294-306.	5.1	39
32	Enhancement of protective immunity in blue gourami, Trichogaster trichopterus (Pallas), against Aeromonas hydrophila and Vibrioanguillarum by A. hydrophila major adhesin. Journal of Fish Diseases, 2000, 23, 137-145.	1.9	38
33	Autologous skeletal myoblasts transduced with a new adenoviral bicistronic vector for treatment of hind limb ischemia. Journal of Vascular Surgery, 2004, 40, 774-785.	1.1	36
34	Cell Surface GRP78 as a Death Receptor and an Anticancer Drug Target. Cancers, 2019, 11, 1787.	3.7	36
35	Reversal of myocardial injury using genetically modulated human skeletal myoblasts in a rodent cryoinjured heart modelâ˜†. European Journal of Heart Failure, 2005, 7, 945-952.	7.1	33
36	Negative regulation by the R2 element of the MHC class I enhancer in adenovirus-12 transformed cells correlates with high levels of COUP-TF binding. Oncogene, 1994, 9, 2183-90.	5.9	33

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37	The first but not the second thrombospondin type 1 repeat of ADAMTS5 functions as an angiogenesis inhibitor. Biochemical and Biophysical Research Communications, 2008, 371, 215-219.	2.1	32
38	Proapoptotic Cyclic Peptide BC71 Targets Cell-Surface GRP78 and Functions as an Anticancer Therapeutic in Mice. EBioMedicine, 2018, 33, 22-32.	6.1	32
39	A small peptide derived from Flt-1 (VEGFR-1) functions as an angiogenic inhibitor. FEBS Letters, 2001, 494, 150-156.	2.8	31
40	Platelet-derived growth factor receptor alpha (pdgfr-Î±) gene in zebrafish embryonic development. Mechanisms of Development, 2002, 116, 227-230.	1.7	30
41	Augmenter of Liver Regeneration (alr) Promotes Liver Outgrowth during Zebrafish Hepatogenesis. PLoS ONE, 2012, 7, e30835.	2.5	29
42	Geometric Control of Fibroblast Growth on Proton Beam-Micromachined Scaffolds. Tissue Engineering, 2004, 10, 267-272.	4.6	28
43	Angiopoietin-1 for myocardial angiogenesis: A comparison between delivery strategies. European Journal of Heart Failure, 2007, 9, 458-465.	7.1	28
44	Enhancement of bone formation by genetically-engineered bone marrow stromal cells expressing BMP-2, VEGF and angiopoietin-1. Biotechnology Letters, 2009, 31, 1183-1189.	2.2	27
45	Interordinal Chimera Formation Between Medaka and Zebrafish for Analyzing Stem Cell Differentiation. Stem Cells and Development, 2012, 21, 2333-2341.	2.1	27
46	Insights into EPR Effect versus Lectinâ€mediated Targeted Delivery: Biodegradable Polycarbonate Micellar Nanoparticles with and without Galactose Surface Decoration. Small, 2014, 10, 4281-4286.	10.0	26
47	ISM1 protects lung homeostasis via cell-surface GRP78-mediated alveolar macrophage apoptosis. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	26
48	Extracellular anti-angiogenic proteins augment an endosomal protein trafficking pathway to reach mitochondria and execute apoptosis in HUVECs. Cell Death and Differentiation, 2018, 25, 1905-1920.	11.2	25
49	Platelet-derived growth factor A (pdgf-a) expression during zebrafish embryonic development. Development Genes and Evolution, 2002, 212, 298-301.	0.9	24
50	Angiopoietin-1 promotes functional neovascularization that relieves ischemia by improving regional reperfusion in a swine chronic myocardial ischemia model. Journal of Biomedical Science, 2006, 13, 579-591.	7.0	24
51	Isthmin is a novel vascular permeability inducer that functions through cell-surface GRP78-mediated Src activation. Cardiovascular Research, 2015, 107, 131-142.	3.8	24
52	Characterization of the zebrafish vascular endothelial growth factor A gene: comparison with vegf-A genes in mammals and Fugu. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 2004, 1676, 33-40.	2.4	22
53	Isolation and characterization of fish Aeromonas hydrophila adhesins important for in vitro epithelial cell invasion. Journal of Fish Diseases, 1997, 20, 169-175.	1.9	20
54	In Vitro Functional Assessment of Human Skeletal Myoblasts After Transduction With Adenoviral Bicistronic Vector Carrying Human VEGF165 and Angiopoietin-1. Journal of Heart and Lung Transplantation, 2005, 24, 1393-1402.	0.6	20

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55	Recombinant TSR1 of ADAMTS5 Suppresses Melanoma Growth in Mice via an Anti-angiogenic Mechanism. Cancers, 2018, 10, 192.	3.7	20
56	Nascent vessel elongation rate is inversely related to diameter in in vitro angiogenesis. Integrative Biology (United Kingdom), 2012, 4, 1081.	1.3	19
57	E1A Oncogene of Adenovirus-12 Mediates Trans-repression of MHC Class I Transcription in Ad5/Ad12 Somatic Hybrid Transformed Cells. Virology, 1994, 203, 389-392.	2.4	18
58	Retinoid X receptor homodimers function as transcriptional activators in yeast. Gene, 1994, 145, 129-133.	2.2	17
59	Models of maximum stress and strain of zebrafish embryos under indentation. Journal of Biomechanics, 2009, 42, 620-625.	2.1	17
60	Therapeutic Angiogenesis for Coronary Artery Disease. Journal of Cardiac Surgery, 2010, 17, 350-354.	0.7	17
61	Efficient genome editing using CRISPR/Cas9 ribonucleoprotein approach in cultured medaka fish cells. Biology Open, 2018, 7, .	1.2	17
62	Decorin derived antiangiogenic peptide LRR5 inhibits endothelial cell migration by interfering with VEGF-stimulated NO release. International Journal of Biochemistry and Cell Biology, 2008, 40, 2120-2128.	2.8	16
63	The recruitment of blood coagulation factor X into snake venom gland as a toxin. Thrombosis and Haemostasis, 2009, 102, 469-478.	3.4	16
64	Identification of proteins differentially expressed between capillary endothelial cells of hepatocellular carcinoma and normal liver in an orthotopic rat tumor model using 2-D DIGE. Proteomics, 2010, 10, 224-234.	2.2	16
65	Extracellular vesicle-carried Jagged-1 inhibits HUVEC sprouting in a 3D microenvironment. Angiogenesis, 2018, 21, 571-580.	7.2	16
66	Medaka Cleavage Embryos Are Capable of Generating ES-Like Cell Cultures. International Journal of Biological Sciences, 2011, 7, 418-425.	6.4	15
67	Mitf is a transcriptional activator of medaka germ genes in culture. Biochimie, 2012, 94, 759-767.	2.6	15
68	Angio-3, a 10-residue peptide derived from human plasminogen kringle 3, suppresses tumor growth in mice via impeding both angiogenesis and vascular permeability. Angiogenesis, 2018, 21, 653-665.	7.2	15
69	ZYZ451 protects cardiomyocytes from hypoxia-induced apoptosis via enhancing MnSOD and STAT3 interaction. Free Radical Biology and Medicine, 2016, 92, 1-14.	2.9	13
70	Measurement of cell motility on proton beam micromachined 3D scaffolds. Nuclear Instruments & Methods in Physics Research B, 2005, 231, 413-418.	1.4	11
71	Discovery of small molecules targeting GRP78 for antiangiogenic and anticancer therapy. European Journal of Medicinal Chemistry, 2020, 193, 112228.	5.5	10
72	ISM1 suppresses LPS-induced acute lung injury and post-injury lung fibrosis in mice. Molecular Medicine, 2022, 28, .	4.4	10

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73	Cloning and characterization of two isoforms of the zebrafish thyrotroph embryonic factor (tefÎ± and) Tj ETQq1 1 0.784314 rgBT /Ove	2.4	9
74	Using the SMART^{TM} cDNA System to Map the Transcription Initiation Site. BioTechniques, 2000, 28, 846-851.	1.8	9
75	High efficiency transduction of human VEGF165 into human skeletal myoblasts: in vitro studies. Experimental and Molecular Medicine, 2003, 35, 412-420.	7.7	9
76	Regulation of expression of venom toxins: silencing of prothrombin activator trocarin D by AGâ€rich motifs. FASEB Journal, 2016, 30, 2411-2425.	0.5	9
77	Speed optimization in automated microinjection of zebrafish embryos. International Journal of Control, Automation and Systems, 2015, 13, 1233-1241.	2.7	8
78	Force control for mechanoinduction of impedance variation in cellular organisms. Journal of Micromechanics and Microengineering, 2010, 20, 025003.	2.6	7
79	A Magneto-Microfluidic System for Investigating the Influence of an Externally Induced Force Gradient in a Collagen Type I ECM on HMVEC Sprouting. SLAS Technology, 2017, 22, 413-424.	1.9	7
80	Cell surface nucleolin is a novel ADAMTS5 receptor mediating endothelial cell apoptosis. Cell Death and Disease, 2022, 13, 172.	6.3	7
81	A Micromanipulation System for Automatic Batch Microinjection. Proceedings - IEEE International Conference on Robotics and Automation, 2007, , .	0.0	6
82	Gene Transfer and Genome-Wide Insertional Mutagenesis by Retroviral Transduction in Fish Stem Cells. PLoS ONE, 2015, 10, e0127961.	2.5	5
83	An Electromagnetic System for Inducing a Localized Force Gradient in an ECM and Its Influence on HMVEC Sprouting. SLAS Technology, 2018, 23, 70-82.	1.9	2
84	Mechanoinduction of reduction in the stiffness of zebrafish chorion. , 2010, , .		1
85	Speed optimization for micropipette motion during zebrafish embryo microinjection. , 2010, , .		1
86	Abstract 3204: Tissue engineered models of metastatic bone disease for the study of prostate cancer cell dormancy. , 2015, , .		0
87	Genetically manipulated animals and their use in experimental research. Annals of the Academy of Medicine, Singapore, 1999, 28, 560-4.	0.4	0