Guixue Wang

List of Publications by Year in descending order

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159358 197535 3,142 119 30 49 citations g-index h-index papers 123 123 123 4802 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Biomimetic Nanotherapies: Red Blood Cell Based Core–Shell Structured Nanocomplexes for Atherosclerosis Management. Advanced Science, 2019, 6, 1900172.	5.6	194
2	Biomechanical regulation of vascular smooth muscle cell functions: from <i>in vitro</i> understanding. Journal of the Royal Society Interface, 2014, 11, 20130852.	1. 5	137
3	Substrate stiffness regulates the proliferation, migration, and differentiation of epidermal cells. Burns, 2012, 38, 414-420.	1.1	111
4	The persistence length and length per base of single-stranded DNA obtained from fluorescence correlation spectroscopy measurements using mean field theory. Physica A: Statistical Mechanics and Its Applications, 2013, 392, 1072-1079.	1.2	111
5	Controlled Slow-Release Drug-Eluting Stents for the Prevention of Coronary Restenosis: Recent Progress and Future Prospects. ACS Applied Materials & Interfaces, 2015, 7, 11695-11712.	4.0	101
6	Overexpression of OsEXPA8, a Root-Specific Gene, Improves Rice Growth and Root System Architecture by Facilitating Cell Extension. PLoS ONE, 2013, 8, e75997.	1.1	94
7	Autophagy Regulates Vascular Endothelial Cell eNOS and ET-1 Expression Induced by Laminar Shear Stress in an Ex Vivo Perfused System. Annals of Biomedical Engineering, 2014, 42, 1978-1988.	1.3	93
8	Frontier and hot topics in electrochemiluminescence sensing technology based on CiteSpace bibliometric analysis. Biosensors and Bioelectronics, 2022, 201, 113932.	5.3	79
9	Electrospun nanofiber meshes with tailored architectures and patterns as potential tissue-engineering scaffolds. Biofabrication, 2009, 1, 015001.	3.7	72
10	Molecular characterization and functional analysis by heterologous expression in E. coli under diverse abiotic stresses for OsLEA5, the atypical hydrophobic LEA protein from Oryza sativa L Molecular Genetics and Genomics, 2012, 287, 39-54.	1.0	71
11	Heredity, physiology and mapping of a chlorophyll content gene of rice (Oryza sativa L.). Journal of Plant Physiology, 2008, 165, 324-330.	1.6	66
12	Overexpression of OsLEA4 enhances drought, high salt and heavy metal stress tolerance in transgenic rice (Oryza sativa L.). Environmental and Experimental Botany, 2016, 123, 68-77.	2.0	64
13	Investigation of surface endothelialization on biomedical nitinol (NiTi) alloy: Effects of surface micropatterning combined with plasma nanocoatings. Acta Biomaterialia, 2009, 5, 3593-3604.	4.1	62
14	OsEXPB2, a \hat{I}^2 -expansin gene, is involved in rice root system architecture. Molecular Breeding, 2015, 35, 1.	1.0	59
15	High shear stress induces atherosclerotic vulnerable plaque formation through angiogenesis. International Journal of Energy Production and Management, 2016, 3, 257-267.	1.9	59
16	Cloning, sequencing and expression of the xylanase gene from a Bacillus subtilis strain B10 in Escherichia coli. Bioresource Technology, 2006, 97, 802-808.	4.8	56
17	Atherosclerosis Treatment with Stimuliâ€Responsive Nanoagents: Recent Advances and Future Perspectives. Advanced Healthcare Materials, 2019, 8, e1900036.	3.9	55
18	Study of biocompatibility of medical grade high nitrogen nickel-free austenitic stainless steel in vitro. Materials Science and Engineering C, 2014, 43, 641-648.	3.8	51

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19	Inhibition of Staphylococcus aureus biofilm by a copper-bearing 317L-Cu stainless steel and its corrosion resistance. Materials Science and Engineering C, 2016, 69, 744-750.	3.8	51
20	Coronary drugâ€eluting stents: From design optimization to newer strategies. Journal of Biomedical Materials Research - Part A, 2014, 102, 1625-1640.	2.1	46
21	A novel method for preparing electrospun fibers with nano-/micro-scale porous structures. Polymer Bulletin, 2009, 63, 259-265.	1.7	44
22	Re-Endothelialization Study on Endovascular Stents Seeded by Endothelial Cells through Up- or Downregulation of VEGF. ACS Applied Materials & Samp; Interfaces, 2016, 8, 7578-7589.	4.0	42
23	Concentration polarization of macromolecules in canine carotid arteries and its implication for the localization of atherogenesis. Journal of Biomechanics, 2003, 36, 45-51.	0.9	41
24	Rear actomyosin contractility-driven directional cell migration in three-dimensional matrices: a mechano-chemical coupling mechanism. Journal of the Royal Society Interface, 2014, 11, 20131072.	1.5	41
25	Regulation of the α-expansin gene OsEXPA8 expression affects root system architecture in transgenic rice plants. Molecular Breeding, 2014, 34, 47-57.	1.0	41
26	An investigation of the antibacterial ability and cytotoxicity of a novel cu-bearing 317L stainless steel. Scientific Reports, 2016, 6, 29244.	1.6	40
27	Design and testing of hydrophobic core/hydrophilic shell nano/micro particles for drug-eluting stent coating. NPG Asia Materials, 2018, 10, 642-658.	3.8	40
28	Endovascular stent-induced alterations in host artery mechanical environments and their roles in stent restenosis and late thrombosis. International Journal of Energy Production and Management, 2018, 5, 177-187.	1.9	38
29	The effect of high-voltage electrostatic field (HVEF) on aged rice (Oryza sativa L.) seeds vigor and lipid peroxidation of seedlings. Journal of Electrostatics, 2009, 67, 759-764.	1.0	33
30	Effect of surface chemistry on the integrin induced pathway in regulating vascular endothelial cells migration. Colloids and Surfaces B: Biointerfaces, 2015, 126, 188-197.	2.5	33
31	Design, preparation and performance of a novel drug-eluting stent with multiple layer coatings. Biomaterials Science, 2017, 5, 1845-1857.	2.6	33
32	The impact of vascular endothelial growth factor-transfected human endothelial cells on endothelialization and restenosis of stainless steel stents. Journal of Vascular Surgery, 2011, 53, 461-471.	0.6	32
33	A Novel Role of Id1 in Regulating Oscillatory Shear Stress-Mediated Lipid Uptake in Endothelial Cells. Annals of Biomedical Engineering, 2018, 46, 849-863.	1.3	31
34	Updates in understanding the hypocholesterolemia effect of probiotics on atherosclerosis. Applied Microbiology and Biotechnology, 2019, 103, 5993-6006.	1.7	31
35	Overview of Crosstalk Between Multiple Factor of Transcytosis in Blood Brain Barrier. Frontiers in Neuroscience, 2019, 13, 1436.	1.4	31
36	Study on the biodegradability and biocompatibility of WE magnesium alloys. Materials Science and Engineering C, 2012, 32, 2190-2198.	3.8	30

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37	<i>In vitro</i> and <i>in vivo</i> investigations on the effects of low-density lipoprotein concentration polarization and haemodynamics on atherosclerotic localization in rabbit and zebrafish. Journal of the Royal Society Interface, 2013, 10, 20121053.	1.5	30
38	Comprehensive 3D-QSAR and binding mode of BACE-1 inhibitors using R-group search and molecular docking. Journal of Molecular Graphics and Modelling, 2013, 45, 65-83.	1.3	29
39	Upregulation of SDF-1 is Associated with Atherosclerosis Lesions Induced by LDL Concentration Polarization. Annals of Biomedical Engineering, 2012, 40, 1018-1027.	1.3	25
40	Mesenchymal stem cell seeding promotes reendothelialization of the endovascular stent. Journal of Biomedical Materials Research - Part A, 2011, 98A, 442-449.	2.1	24
41	A novel mechanism of inhibiting in-stent restenosis with arsenic trioxide drug-eluting stent: Enhancing contractile phenotype of vascular smooth muscle cells via YAP pathway. Bioactive Materials, 2021, 6, 375-385.	8.6	24
42	Remodeling tumor immunosuppressive microenvironment via a novel bioactive nanovaccines potentiates the efficacy of cancer immunotherapy. Bioactive Materials, 2022, 16, 107-119.	8.6	24
43	Surface wettability of plasma SiO $\langle sub \rangle \langle i \rangle x \langle j \rangle \rangle$: H nanocoating-induced endothelial cells' migration and the associated FAK-Rho GTPases signalling pathways. Journal of the Royal Society Interface, 2012, 9, 313-327.	1.5	23
44	Integrins-FAK-Rho GTPases Pathway in Endothelial Cells Sense and Response to Surface Wettability of Plasma Nanocoatings. ACS Applied Materials & Samp; Interfaces, 2013, 5, 5112-5121.	4.0	23
45	Isolation and characterization of a rice glutathione S-transferase gene promoter regulated by herbicides and hormones. Plant Cell Reports, 2011, 30, 539-549.	2.8	22
46	Mutation of OsDET1 increases chlorophyll content in rice. Plant Science, 2013, 210, 241-249.	1.7	22
47	Detection of Phytophthora nicotianae in Soil with Real-time Quantitative PCR. Journal of Phytopathology, 2010, 158, 15-21.	0.5	19
48	Coordination of Id1 and p53 Activation by Oxidized LDL Regulates Endothelial Cell Proliferation and Migration. Annals of Biomedical Engineering, 2011, 39, 2869-2878.	1.3	19
49	PEG- b -PCL polymeric nano-micelle inhibits vascular angiogenesis by activating p53-dependent apoptosis in zebrafish. International Journal of Nanomedicine, 2016, Volume 11, 6517-6531.	3.3	19
50	Progress and prospects of endothelial progenitor cell therapy in coronary stent implantation. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2016, 104, 1237-1247.	1.6	19
51	Arsenic Trioxide–Coated Stent Is an Endotheliumâ€Friendly Drug Eluting Stent. Advanced Healthcare Materials, 2018, 7, e1800207.	3.9	19
52	Two-stage degradation and novel functional endothelium characteristics of a 3-D printed bioresorbable scaffold. Bioactive Materials, 2022, 10, 378-396.	8.6	19
53	Protection of Endothelial Cells, Inhibition of Neointimal Hyperplasia by \hat{l}^2 -elemene in an Injured Artery. Cardiovascular Drugs and Therapy, 2011, 25, 233-242.	1.3	18
54	Covalent immobilization of biomolecules on stent materials through mussel adhesive protein coating to form biofunctional films. Materials Science and Engineering C, 2020, 106, 110187.	3.8	18

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55	Uptake of oxidative stress-mediated extracellular vesicles by vascular endothelial cells under low magnitude shear stress. Bioactive Materials, 2022, 9, 397-410.	8.6	18
56	Overexpression of Dominant Negative Peroxisome Proliferator-Activated Receptor-Î ³ (PPARÎ ³) in Alveolar Type II Epithelial Cells Causes Inflammation and T-Cell Suppression in the Lung. American Journal of Pathology, 2011, 178, 2191-2204.	1.9	17
57	ld1-induced inhibition of p53 facilitates endothelial cell migration and tube formation by regulating the expression of beta1-integrin. Molecular and Cellular Biochemistry, 2011, 357, 125-133.	1.4	17
58	Biocompatibility study of plasma-coated nitinol (NiTi alloy) stents. IET Nanobiotechnology, 2007, 1, 102.	1.9	16
59	A study on surface endothelialization of plasma coated intravascular stents. Surface and Coatings Technology, 2010, 204, 1487-1492.	2.2	16
60	OxLDL stimulates Id1 nucleocytoplasmic shuttling in endothelial cell angiogenesis via PI3K Pathway. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2012, 1821, 1361-1369.	1.2	16
61	Effect of Amphiphilic PCL–PEG Nanoâ€Micelles on HepG2 Cell Migration. Macromolecular Bioscience, 2015, 15, 372-384.	2.1	16
62	The De-Etiolated 1 Homolog of Arabidopsis Modulates the ABA Signaling Pathway and ABA Biosynthesis in Rice. Plant Physiology, 2016, 171, 1259-1276.	2.3	16
63	AAMP Regulates Endothelial Cell Migration and Angiogenesis Through RhoA/Rho Kinase Signaling. Annals of Biomedical Engineering, 2016, 44, 1462-1474.	1.3	16
64	Heparinized poly(vinyl alcohol)–small intestinal submucosa composite membrane for coronary covered stents. Biomedical Materials (Bristol), 2009, 4, 025012.	1.7	15
65	Immobilization of heparin/poly-l-lysine microspheres on medical grade high nitrogen nickel-free austenitic stainless steel surface to improve the biocompatibility and suppress thrombosis. Materials Science and Engineering C, 2017, 73, 198-205.	3.8	15
66	Id1 induces tubulogenesis by regulating endothelial cell adhesion and cytoskeletal organization through \hat{l}^21 -integrin and Rho-kinase signalling. International Journal of Molecular Medicine, 2011, 28, 543-8.	1.8	14
67	Molecular Analysis of OsLEA4 and Its Contributions to Improve E. coli Viability. Applied Biochemistry and Biotechnology, 2012, 166, 222-233.	1.4	14
68	Surface modification of coronary stents with SiCOH plasma nanocoatings for improving endothelialization and anticoagulation. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2015, 103, 464-472.	1.6	14
69	Effects of elemene on inhibiting proliferation of vascular smooth muscle cells and promoting reendothelialization at the stent implantation site. Biomaterials Science, 2017, 5, 1144-1155.	2.6	14
70	Concentration polarization of atherogenic lipids in the arterial system. Science in China Series C: Life Sciences, 2003, 46, 153.	1.3	13
71	Contractions Reverse Stress Softening in Rat Esophagus. Annals of Biomedical Engineering, 2014, 42, 1717-1728.	1.3	13
72	Tyrosol Facilitates Neovascularization by Enhancing Skeletal Muscle Cells Viability and Paracrine Function in Diabetic Hindlimb Ischemia Mice. Frontiers in Pharmacology, 2019, 10, 909.	1.6	13

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73	Lactic acid-mediated endothelial to mesenchymal transition through TGF- $\hat{1}^21$ contributes to in-stent stenosis in poly-L-lactic acid stent. International Journal of Biological Macromolecules, 2020, 155, 1589-1598.	3.6	13
74	In-vitro assays of polymer-coated stents eluting platelet glycoprotein IIb/IIIa receptor monoclonal antibody. Journal of Biomedical Materials Research - Part A, 2007, 83A, 861-867.	2.1	12
75	Repression of <i>OsEXPA3</i> Expression Leads to Root System Growth Suppression in Rice. Crop Science, 2014, 54, 2201-2213.	0.8	12
76	Effect of intraplaque angiogenesis to atherosclerotic rupture-prone plaque induced by high shear stress in rabbit model. International Journal of Energy Production and Management, 2017, 4, 215-222.	1.9	12
77	Advanced drug-delivery systems: mechanoresponsive nanoplatforms applicable in atherosclerosis management. Nanomedicine, 2019, 14, 3105-3122.	1.7	12
78	Simulation of blood flow in a small-diameter vascular graft model with a swirl (spiral) flow guider. Science in China Series C: Life Sciences, 2008, 51, 913-921.	1.3	11
79	Electrospinning of Polymer Nanofibers with Ordered Patterns and Architectures. Journal of Nanoscience and Nanotechnology, 2010, 10, 1699-1706.	0.9	11
80	Photosynthetic and physiological analysis of the rice high-chlorophyll mutant (Gc). Plant Physiology and Biochemistry, 2012, 60, 81-87.	2.8	11
81	Application of Faecalibacterium 16S rDNA genetic marker for accurate identification of duck faeces. Environmental Science and Pollution Research, 2016, 23, 7639-7647.	2.7	11
82	Downregulation of G3BP2 reduces atherosclerotic lesions in ApoE mice. Atherosclerosis, 2020, 310, 64-74.	0.4	11
83	The recent advances and future perspectives of genetic compensation studies in the zebrafish model. Genes and Diseases, 2023, 10, 468-479.	1.5	11
84	Id1: A novel therapeutic target for patients with atherosclerotic plaque rupture. Medical Hypotheses, 2011, 76, 627-628.	0.8	10
85	An <i>in vitro</i> study on the biocompatibility of WE magnesium alloys. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2016, 104, 482-487.	1.6	8
86	Adhesion and endothelialization of endothelial cells on the surface of endovascular stents by the novel rotational culture of cells. Applied Surface Science, 2008, 255, 315-319.	3.1	7
87	Effects of shear stress on the number and function of endothelial progenitor cells adhered to specific matrices. Journal of Applied Biomaterials and Biomechanics, 2011, 9, 193-198.	0.4	7
88	Overexpression of OsTLP27 in rice improves chloroplast function and photochemical efficiency. Plant Science, 2012, 195, 125-134.	1.7	7
89	LDL Decreases the Membrane Compliance and Cell Adhesion of Endothelial Cells Under Fluid Shear Stress. Annals of Biomedical Engineering, 2013, 41, 611-618.	1.3	7
90	ENDOTHELIAL MECHANOTRANSDUCTION MECHANISMS FOR VASCULAR PHYSIOLOGY AND ATHEROSCLEROSIS. Journal of Mechanics in Medicine and Biology, 2014, 14, 1430006.	0.3	7

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91	Effects of gamma irradiation and moist heat for sterilization on sodium alginate. Bio-Medical Materials and Engineering, 2014, 24, 1837-1849.	0.4	6
92	Discovery of Salidroside-Derivated Glycoside Analogues as Novel Angiogenesis Agents to Treat Diabetic Hind Limb Ischemia. Journal of Medicinal Chemistry, 2022, 65, 135-162.	2.9	6
93	The physiological mechanism of a drooping leaf2 mutation in rice. Plant Science, 2011, 180, 757-765.	1.7	5
94	Numerical simulation of haemodynamics of the descending aorta in the non-diabetic and diabetic rabbits. Journal of Biomechanics, 2019, 91, 140-150.	0.9	5
95	G3BP2 regulates oscillatory shear stress-induced endothelial dysfunction. Genes and Diseases, 2022, 9, 1701-1715.	1.5	5
96	Important Role of TNF-α in Inhibitory Effects of Radix Sophorae Flavescentis Extract on Vascular Restenosis in a Rat Carotid Model of Balloon Dilatation Injury. Planta Medica, 2009, 75, 1293-1299.	0.7	4
97	Concepts and hypothesis: integrin cytoplasmic domain-associated protein-1 (ICAP-1) as a potential player in cerebral cavernous malformation. Journal of Neurology, 2013, 260, 10-19.	1.8	4
98	Esophageal stress softening recovery is altered in STZ-induced diabetic rats. Journal of Biomechanics, 2019, 92, 126-136.	0.9	4
99	Photooxidation crosslinking to recover residual stress in decellularized blood vessel. International Journal of Energy Production and Management, 2021, 8, rbaa058.	1.9	4
100	<i>trans</i> -2-Enoyl-CoA Reductase Tecr-Driven Lipid Metabolism in Endothelial Cells Protects against Transcytosis to Maintain Blood-Brain Barrier Homeostasis. Research, 2022, 2022, 9839368.	2.8	4
101	A Novel Micro-spraying System for Preparing Polymer-coated Intravascular Stent., 2007, , .		3
102	Modeling and fabrication of electrospun polymer nanofibers with tailored architectures for tissue engineering scaffold applications. , 2009, , .		3
103	Reversible stress softening in layered rat esophagus in vitro after potassium chloride activation. Biomechanics and Modeling in Mechanobiology, 2017, 16, 1065-1075.	1.4	3
104	Potential application of an Aspergillus strain in a pilot biofilter for benzene biodegradation. Scientific Reports, 2017, 7, 46059.	1.6	3
105	Title is missing!. Journal of Medical and Biological Engineering, 2012, 32, 70.	1.0	3
106	Biomechanical regulation of planar cell polarity in endothelial cells. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2022, 1868, 166495.	1.8	3
107	A Novel Intravascular Stents Covered with Human Amniotic Membrane., 2007,,.		2
108	Recognition for avian influenza virus proteins based on support vector machine and linear discriminant analysis. Science in China Series B: Chemistry, 2008, 51, 166-170.	0.8	2

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109	The optimization of Regeneration tissue culture system of three chilli peppers cultivars based on the uniform design and the mathematical model equation. Acta Biologica Hungarica, 2012, 63, 372-388.	0.7	2
110	Optimization Design and Injury Analysis of Driver's Restraint System in Sedan Small Offset Collision. Processes, 2022, 10, 940.	1.3	2
111	Use of support vector machine to predict the toxicity of aromatic compounds. , 2011, , .		1
112	Standardization of a well-controlled in vivo mouse model of thrombus formation induced by mechanical injury. Thrombosis Research, 2016, 141, 49-57.	0.8	1
113	Thrombosis Model in Mouse Carotid Induced by Guidewire. Journal of Medical and Biological Engineering, 2016, 36, 236-244.	1.0	1
114	Application of <i>Faecalibacterium </i> as Index Bacteria of Feces in Water. Ying Yong Yu Huan Jing Sheng Wu Xue Bao = Chinese Journal of Applied and Environmental Biology, 2013, 19, 1073.	0.1	1
115	EFFECT OF BASIC FIBROBLAST GROWTH FACTOR ON BEHAVIOR CAPABILITY AND NEURONS IN THE DENTATE GYRUS OF RATS WITH ATHEROSCLEROSIS AFTER CEREBRAL ISCHEMIA REPERFUSION INJURY. Biomedical Engineering - Applications, Basis and Communications, 2013, 25, 1350025.	0.3	O
116	Localization of OsTLP27 in thylakoid lumen is required for accumulation of photosynthetic proteins in rice. Molecular Breeding, 2015, 35, 1.	1.0	0
117	EVALUATION OF INTIMAL HYPERPLASIA AND THROMBOSIS AFTER IMPLANTATION OF PLATELET GLYCOPROTEIN IIIa MONOCLONAL ANTIBODY-ELUTING STENT IN NEW ZEALAND WHITE RABBIT AORTA OR ILIAC ARTERIES. Biomedical Engineering - Applications, Basis and Communications, 2015, 27, 1550046.	0.3	O
118	Smart mechanosensing machineries enable migration of vascular smooth muscle cells in atherosclerosisâ€relevant 3D matrices. Cell Biology International, 2017, 41, 586-598.	1.4	0
119	Temporal-spatial low shear stress induces heterogenous distribution of hematopoietic stem cell budding in zebrafish. Cellular and Molecular Life Sciences, 2022, 79, .	2.4	0