

# Guixue Wang

## List of Publications by Year in descending order

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119  
papers

3,142  
citations

159358

30  
h-index

197535

49  
g-index

123  
all docs

123  
docs citations

123  
times ranked

4802  
citing authors

#	ARTICLE	IF	CITATIONS
1	The recent advances and future perspectives of genetic compensation studies in the zebrafish model. <i>Genes and Diseases</i> , 2023, 10, 468-479.	1.5	11
2	Two-stage degradation and novel functional endothelium characteristics of a 3-D printed bioresorbable scaffold. <i>Bioactive Materials</i> , 2022, 10, 378-396.	8.6	19
3	Uptake of oxidative stress-mediated extracellular vesicles by vascular endothelial cells under low magnitude shear stress. <i>Bioactive Materials</i> , 2022, 9, 397-410.	8.6	18
4	G3BP2 regulates oscillatory shear stress-induced endothelial dysfunction. <i>Genes and Diseases</i> , 2022, 9, 1701-1715.	1.5	5
5	Frontier and hot topics in electrochemiluminescence sensing technology based on CiteSpace bibliometric analysis. <i>Biosensors and Bioelectronics</i> , 2022, 201, 113932.	5.3	79
6	<i>trans</i> -2-Enoyl-CoA Reductase Tcr-Driven Lipid Metabolism in Endothelial Cells Protects against Transcytosis to Maintain Blood-Brain Barrier Homeostasis. <i>Research</i> , 2022, 2022, 9839368.	2.8	4
7	Remodeling tumor immunosuppressive microenvironment via a novel bioactive nanovaccines potentiates the efficacy of cancer immunotherapy. <i>Bioactive Materials</i> , 2022, 16, 107-119.	8.6	24
8	Discovery of Solidroside-Derived Glycoside Analogues as Novel Angiogenesis Agents to Treat Diabetic Hind Limb Ischemia. <i>Journal of Medicinal Chemistry</i> , 2022, 65, 135-162.	2.9	6
9	Optimization Design and Injury Analysis of Driver's Restraint System in Sedan Small Offset Collision. <i>Processes</i> , 2022, 10, 940.	1.3	2
10	Temporal-spatial low shear stress induces heterogenous distribution of hematopoietic stem cell budding in zebrafish. <i>Cellular and Molecular Life Sciences</i> , 2022, 79, .	2.4	0
11	Biomechanical regulation of planar cell polarity in endothelial cells. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2022, 1868, 166495.	1.8	3
12	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. <i>Bioactive Materials</i> , 2021, 6, 375-385.	8.6	24
13	Photooxidation crosslinking to recover residual stress in decellularized blood vessel. <i>International Journal of Energy Production and Management</i> , 2021, 8, rbaa058.	1.9	4
14	Covalent immobilization of biomolecules on stent materials through mussel adhesive protein coating to form biofunctional films. <i>Materials Science and Engineering C</i> , 2020, 106, 110187.	3.8	18
15	Lactic acid-mediated endothelial to mesenchymal transition through TGF- $\beta$ 1 contributes to in-stent stenosis in poly-L-lactic acid stent. <i>International Journal of Biological Macromolecules</i> , 2020, 155, 1589-1598.	3.6	13
16	Downregulation of G3BP2 reduces atherosclerotic lesions in ApoE mice. <i>Atherosclerosis</i> , 2020, 310, 64-74.	0.4	11
17	Tyrosol Facilitates Neovascularization by Enhancing Skeletal Muscle Cells Viability and Paracrine Function in Diabetic Hindlimb Ischemia Mice. <i>Frontiers in Pharmacology</i> , 2019, 10, 909.	1.6	13
18	Numerical simulation of haemodynamics of the descending aorta in the non-diabetic and diabetic rabbits. <i>Journal of Biomechanics</i> , 2019, 91, 140-150.	0.9	5

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19	Esophageal stress softening recovery is altered in STZ-induced diabetic rats. <i>Journal of Biomechanics</i> , 2019, 92, 126-136.	0.9	4
20	Updates in understanding the hypocholesterolemia effect of probiotics on atherosclerosis. <i>Applied Microbiology and Biotechnology</i> , 2019, 103, 5993-6006.	1.7	31
21	Biomimetic Nanotherapies: Red Blood Cell Based Core-Shell Structured Nanocomplexes for Atherosclerosis Management. <i>Advanced Science</i> , 2019, 6, 1900172.	5.6	194
22	Atherosclerosis Treatment with Stimuli-Responsive Nanoagents: Recent Advances and Future Perspectives. <i>Advanced Healthcare Materials</i> , 2019, 8, e1900036.	3.9	55
23	Advanced drug-delivery systems: mechanoresponsive nanoplatfoms applicable in atherosclerosis management. <i>Nanomedicine</i> , 2019, 14, 3105-3122.	1.7	12
24	Overview of Crosstalk Between Multiple Factor of Transcytosis in Blood Brain Barrier. <i>Frontiers in Neuroscience</i> , 2019, 13, 1436.	1.4	31
25	A Novel Role of Id1 in Regulating Oscillatory Shear Stress-Mediated Lipid Uptake in Endothelial Cells. <i>Annals of Biomedical Engineering</i> , 2018, 46, 849-863.	1.3	31
26	Arsenic Trioxide-Coated Stent Is an Endothelium-Friendly Drug Eluting Stent. <i>Advanced Healthcare Materials</i> , 2018, 7, e1800207.	3.9	19
27	Endovascular stent-induced alterations in host artery mechanical environments and their roles in stent restenosis and late thrombosis. <i>International Journal of Energy Production and Management</i> , 2018, 5, 177-187.	1.9	38
28	Design and testing of hydrophobic core/hydrophilic shell nano/micro particles for drug-eluting stent coating. <i>NPG Asia Materials</i> , 2018, 10, 642-658.	3.8	40
29	Reversible stress softening in layered rat esophagus in vitro after potassium chloride activation. <i>Biomechanics and Modeling in Mechanobiology</i> , 2017, 16, 1065-1075.	1.4	3
30	Effects of elemene on inhibiting proliferation of vascular smooth muscle cells and promoting reendothelialization at the stent implantation site. <i>Biomaterials Science</i> , 2017, 5, 1144-1155.	2.6	14
31	Design, preparation and performance of a novel drug-eluting stent with multiple layer coatings. <i>Biomaterials Science</i> , 2017, 5, 1845-1857.	2.6	33
32	Potential application of an <i>Aspergillus</i> strain in a pilot biofilter for benzene biodegradation. <i>Scientific Reports</i> , 2017, 7, 46059.	1.6	3
33	Smart mechanosensing machineries enable migration of vascular smooth muscle cells in atherosclerosis-relevant 3D matrices. <i>Cell Biology International</i> , 2017, 41, 586-598.	1.4	0
34	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. <i>Materials Science and Engineering C</i> , 2017, 73, 198-205.	3.8	15
35	Effect of intraplaque angiogenesis to atherosclerotic rupture-prone plaque induced by high shear stress in rabbit model. <i>International Journal of Energy Production and Management</i> , 2017, 4, 215-222.	1.9	12
36	PEG- <i>b</i> -PCL polymeric nano-micelle inhibits vascular angiogenesis by activating p53-dependent apoptosis in zebrafish. <i>International Journal of Nanomedicine</i> , 2016, Volume 11, 6517-6531.	3.3	19

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37	An <i>in vitro</i> study on the biocompatibility of WE magnesium alloys. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2016, 104, 482-487.	1.6	8
38	Standardization of a well-controlled <i>in vivo</i> mouse model of thrombus formation induced by mechanical injury. <i>Thrombosis Research</i> , 2016, 141, 49-57.	0.8	1
39	The De-Etiolated 1 Homolog of Arabidopsis Modulates the ABA Signaling Pathway and ABA Biosynthesis in Rice. <i>Plant Physiology</i> , 2016, 171, 1259-1276.	2.3	16
40	Inhibition of <i>Staphylococcus aureus</i> biofilm by a copper-bearing 317L-Cu stainless steel and its corrosion resistance. <i>Materials Science and Engineering C</i> , 2016, 69, 744-750.	3.8	51
41	High shear stress induces atherosclerotic vulnerable plaque formation through angiogenesis. <i>International Journal of Energy Production and Management</i> , 2016, 3, 257-267.	1.9	59
42	An investigation of the antibacterial ability and cytotoxicity of a novel Cu-bearing 317L stainless steel. <i>Scientific Reports</i> , 2016, 6, 29244.	1.6	40
43	Thrombosis Model in Mouse Carotid Induced by Guidewire. <i>Journal of Medical and Biological Engineering</i> , 2016, 36, 236-244.	1.0	1
44	Progress and prospects of endothelial progenitor cell therapy in coronary stent implantation. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2016, 104, 1237-1247.	1.6	19
45	Application of <i>Faecalibacterium</i> 16S rDNA genetic marker for accurate identification of duck faeces. <i>Environmental Science and Pollution Research</i> , 2016, 23, 7639-7647.	2.7	11
46	Overexpression of OsLEA4 enhances drought, high salt and heavy metal stress tolerance in transgenic rice ( <i>Oryza sativa</i> L.). <i>Environmental and Experimental Botany</i> , 2016, 123, 68-77.	2.0	64
47	Re-Endothelialization Study on Endovascular Stents Seeded by Endothelial Cells through Up- or Downregulation of VEGF. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 7578-7589.	4.0	42
48	AAMP Regulates Endothelial Cell Migration and Angiogenesis Through RhoA/Rho Kinase Signaling. <i>Annals of Biomedical Engineering</i> , 2016, 44, 1462-1474.	1.3	16
49	Localization of OsTLP27 in thylakoid lumen is required for accumulation of photosynthetic proteins in rice. <i>Molecular Breeding</i> , 2015, 35, 1.	1.0	0
50	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. <i>Biomedical Engineering - Applications, Basis and Communications</i> , 2015, 27, 1550046.	0.3	0
51	Controlled Slow-Release Drug-Eluting Stents for the Prevention of Coronary Restenosis: Recent Progress and Future Prospects. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 11695-11712.	4.0	101
52	OsEXPB2, a $\beta$ -expansin gene, is involved in rice root system architecture. <i>Molecular Breeding</i> , 2015, 35, 1.	1.0	59
53	Effect of surface chemistry on the integrin induced pathway in regulating vascular endothelial cells migration. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015, 126, 188-197.	2.5	33
54	Effect of Amphiphilic PCL-PEG Nano-Micelles on HepG2 Cell Migration. <i>Macromolecular Bioscience</i> , 2015, 15, 372-384.	2.1	16

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55	Surface modification of coronary stents with SiCOH plasma nanocoatings for improving endothelialization and anticoagulation. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2015, 103, 464-472.	1.6	14
56	Repression of <i>OsEXPA3</i> Expression Leads to Root System Growth Suppression in Rice. <i>Crop Science</i> , 2014, 54, 2201-2213.	0.8	12
57	Rear actomyosin contractility-driven directional cell migration in three-dimensional matrices: a mechano-chemical coupling mechanism. <i>Journal of the Royal Society Interface</i> , 2014, 11, 20131072.	1.5	41
58	Effects of gamma irradiation and moist heat for sterilization on sodium alginate. <i>Bio-Medical Materials and Engineering</i> , 2014, 24, 1837-1849.	0.4	6
59	Study of biocompatibility of medical grade high nitrogen nickel-free austenitic stainless steel in vitro. <i>Materials Science and Engineering C</i> , 2014, 43, 641-648.	3.8	51
60	ENDOTHELIAL MECHANOTRANSDUCTION MECHANISMS FOR VASCULAR PHYSIOLOGY AND ATHEROSCLEROSIS. <i>Journal of Mechanics in Medicine and Biology</i> , 2014, 14, 1430006.	0.3	7
61	Regulation of the $\hat{I}\pm$ -expansin gene <i>OsEXPA8</i> expression affects root system architecture in transgenic rice plants. <i>Molecular Breeding</i> , 2014, 34, 47-57.	1.0	41
62	Contractions Reverse Stress Softening in Rat Esophagus. <i>Annals of Biomedical Engineering</i> , 2014, 42, 1717-1728.	1.3	13
63	Autophagy Regulates Vascular Endothelial Cell eNOS and ET-1 Expression Induced by Laminar Shear Stress in an Ex Vivo Perfused System. <i>Annals of Biomedical Engineering</i> , 2014, 42, 1978-1988.	1.3	93
64	Biomechanical regulation of vascular smooth muscle cell functions: from <i>in vitro</i> to <i>in vivo</i> understanding. <i>Journal of the Royal Society Interface</i> , 2014, 11, 20130852.	1.5	137
65	Coronary drug-eluting stents: From design optimization to newer strategies. <i>Journal of Biomedical Materials Research - Part A</i> , 2014, 102, 1625-1640.	2.1	46
66	Comprehensive 3D-QSAR and binding mode of BACE-1 inhibitors using R-group search and molecular docking. <i>Journal of Molecular Graphics and Modelling</i> , 2013, 45, 65-83.	1.3	29
67	LDL Decreases the Membrane Compliance and Cell Adhesion of Endothelial Cells Under Fluid Shear Stress. <i>Annals of Biomedical Engineering</i> , 2013, 41, 611-618.	1.3	7
68	The persistence length and length per base of single-stranded DNA obtained from fluorescence correlation spectroscopy measurements using mean field theory. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2013, 392, 1072-1079.	1.2	111
69	Mutation of <i>OsDET1</i> increases chlorophyll content in rice. <i>Plant Science</i> , 2013, 210, 241-249.	1.7	22
70	Integrins-FAK-Rho GTPases Pathway in Endothelial Cells Sense and Response to Surface Wettability of Plasma Nanocoatings. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 5112-5121.	4.0	23
71	Concepts and hypothesis: integrin cytoplasmic domain-associated protein-1 (ICAP-1) as a potential player in cerebral cavernous malformation. <i>Journal of Neurology</i> , 2013, 260, 10-19.	1.8	4
72	EFFECT OF BASIC FIBROBLAST GROWTH FACTOR ON BEHAVIOR CAPABILITY AND NEURONS IN THE DENTATE GYRUS OF RATS WITH ATHEROSCLEROSIS AFTER CEREBRAL ISCHEMIA REPERFUSION INJURY. <i>Biomedical Engineering - Applications, Basis and Communications</i> , 2013, 25, 1350025.	0.3	0

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73	<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. <i>Journal of the Royal Society Interface</i> , 2013, 10, 20121053.	1.5	30
74	Overexpression of OsEXPA8, a Root-Specific Gene, Improves Rice Growth and Root System Architecture by Facilitating Cell Extension. <i>PLoS ONE</i> , 2013, 8, e75997.	1.1	94
75	Application of <i>Faecalibacterium</i> as Index Bacteria of Feces in Water. <i>Ying Yong Yu Huan Jing Sheng Wu Xue Bao = Chinese Journal of Applied and Environmental Biology</i> , 2013, 19, 1073.	0.1	1
76	Surface wettability of plasma SiO <sub>2</sub> nanocoating-induced endothelial cells' migration and the associated FAK-Rho GTPases signalling pathways. <i>Journal of the Royal Society Interface</i> , 2012, 9, 313-327.	1.5	23
77	The optimization of Regeneration tissue culture system of three chilli peppers cultivars based on the uniform design and the mathematical model equation. <i>Acta Biologica Hungarica</i> , 2012, 63, 372-388.	0.7	2
78	Overexpression of OsTLP27 in rice improves chloroplast function and photochemical efficiency. <i>Plant Science</i> , 2012, 195, 125-134.	1.7	7
79	OxLDL stimulates Id1 nucleocytoplasmic shuttling in endothelial cell angiogenesis via PI3K Pathway. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2012, 1821, 1361-1369.	1.2	16
80	Substrate stiffness regulates the proliferation, migration, and differentiation of epidermal cells. <i>Burns</i> , 2012, 38, 414-420.	1.1	111
81	Photosynthetic and physiological analysis of the rice high-chlorophyll mutant (Gc). <i>Plant Physiology and Biochemistry</i> , 2012, 60, 81-87.	2.8	11
82	Study on the biodegradability and biocompatibility of WE magnesium alloys. <i>Materials Science and Engineering C</i> , 2012, 32, 2190-2198.	3.8	30
83	Upregulation of SDF-1 is Associated with Atherosclerosis Lesions Induced by LDL Concentration Polarization. <i>Annals of Biomedical Engineering</i> , 2012, 40, 1018-1027.	1.3	25
84	Molecular Analysis of OsLEA4 and Its Contributions to Improve E. coli Viability. <i>Applied Biochemistry and Biotechnology</i> , 2012, 166, 222-233.	1.4	14
85	Molecular characterization and functional analysis by heterologous expression in E. coli under diverse abiotic stresses for OsLEA5, the atypical hydrophobic LEA protein from <i>Oryza sativa</i> L.. <i>Molecular Genetics and Genomics</i> , 2012, 287, 39-54.	1.0	71
86	Title is missing!. <i>Journal of Medical and Biological Engineering</i> , 2012, 32, 70.	1.0	3
87	Overexpression of Dominant Negative Peroxisome Proliferator-Activated Receptor- $\beta$ (PPAR $\beta$ ) in Alveolar Type II Epithelial Cells Causes Inflammation and T-Cell Suppression in the Lung. <i>American Journal of Pathology</i> , 2011, 178, 2191-2204.	1.9	17
88	Id1: A novel therapeutic target for patients with atherosclerotic plaque rupture. <i>Medical Hypotheses</i> , 2011, 76, 627-628.	0.8	10
89	The impact of vascular endothelial growth factor-transfected human endothelial cells on endothelialization and restenosis of stainless steel stents. <i>Journal of Vascular Surgery</i> , 2011, 53, 461-471.	0.6	32
90	The physiological mechanism of a drooping leaf2 mutation in rice. <i>Plant Science</i> , 2011, 180, 757-765.	1.7	5

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91	Mesenchymal stem cell seeding promotes reendothelialization of the endovascular stent. <i>Journal of Biomedical Materials Research - Part A</i> , 2011, 98A, 442-449.	2.1	24
92	Id1 induces tubulogenesis by regulating endothelial cell adhesion and cytoskeletal organization through $\beta$ 1-integrin and Rho-kinase signalling. <i>International Journal of Molecular Medicine</i> , 2011, 28, 543-8.	1.8	14
93	Protection of Endothelial Cells, Inhibition of Neointimal Hyperplasia by $\beta$ -elemene in an Injured Artery. <i>Cardiovascular Drugs and Therapy</i> , 2011, 25, 233-242.	1.3	18
94	Id1-induced inhibition of p53 facilitates endothelial cell migration and tube formation by regulating the expression of beta1-integrin. <i>Molecular and Cellular Biochemistry</i> , 2011, 357, 125-133.	1.4	17
95	Coordination of Id1 and p53 Activation by Oxidized LDL Regulates Endothelial Cell Proliferation and Migration. <i>Annals of Biomedical Engineering</i> , 2011, 39, 2869-2878.	1.3	19
96	Isolation and characterization of a rice glutathione S-transferase gene promoter regulated by herbicides and hormones. <i>Plant Cell Reports</i> , 2011, 30, 539-549.	2.8	22
97	Use of support vector machine to predict the toxicity of aromatic compounds. , 2011, , .		1
98	Effects of shear stress on the number and function of endothelial progenitor cells adhered to specific matrices. <i>Journal of Applied Biomaterials and Biomechanics</i> , 2011, 9, 193-198.	0.4	7
99	Electrospinning of Polymer Nanofibers with Ordered Patterns and Architectures. <i>Journal of Nanoscience and Nanotechnology</i> , 2010, 10, 1699-1706.	0.9	11
100	A study on surface endothelialization of plasma coated intravascular stents. <i>Surface and Coatings Technology</i> , 2010, 204, 1487-1492.	2.2	16
101	Detection of <i>Phytophthora nicotianae</i> in Soil with Real-time Quantitative PCR. <i>Journal of Phytopathology</i> , 2010, 158, 15-21.	0.5	19
102	Important Role of TNF- $\alpha$ in Inhibitory Effects of Radix Sophorae Flavescentis Extract on Vascular Restenosis in a Rat Carotid Model of Balloon Dilatation Injury. <i>Planta Medica</i> , 2009, 75, 1293-1299.	0.7	4
103	Electrospun nanofiber meshes with tailored architectures and patterns as potential tissue-engineering scaffolds. <i>Biofabrication</i> , 2009, 1, 015001.	3.7	72
104	A novel method for preparing electrospun fibers with nano-/micro-scale porous structures. <i>Polymer Bulletin</i> , 2009, 63, 259-265.	1.7	44
105	The effect of high-voltage electrostatic field (HVEF) on aged rice ( <i>Oryza sativa</i> L.) seeds vigor and lipid peroxidation of seedlings. <i>Journal of Electrostatics</i> , 2009, 67, 759-764.	1.0	33
106	Investigation of surface endothelialization on biomedical nitinol (NiTi) alloy: Effects of surface micropatterning combined with plasma nanocoatings. <i>Acta Biomaterialia</i> , 2009, 5, 3593-3604.	4.1	62
107	Modeling and fabrication of electrospun polymer nanofibers with tailored architectures for tissue engineering scaffold applications. , 2009, , .		3
108	Heparinized poly(vinyl alcohol) "small intestinal submucosa composite membrane for coronary covered stents. <i>Biomedical Materials (Bristol)</i> , 2009, 4, 025012.	1.7	15

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109	Recognition for avian influenza virus proteins based on support vector machine and linear discriminant analysis. <i>Science in China Series B: Chemistry</i> , 2008, 51, 166-170.	0.8	2
110	Simulation of blood flow in a small-diameter vascular graft model with a swirl (spiral) flow guider. <i>Science in China Series C: Life Sciences</i> , 2008, 51, 913-921.	1.3	11
111	Adhesion and endothelialization of endothelial cells on the surface of endovascular stents by the novel rotational culture of cells. <i>Applied Surface Science</i> , 2008, 255, 315-319.	3.1	7
112	Heredity, physiology and mapping of a chlorophyll content gene of rice ( <i>Oryza sativa</i> L.). <i>Journal of Plant Physiology</i> , 2008, 165, 324-330.	1.6	66
113	A Novel Intravascular Stents Covered with Human Amniotic Membrane. , 2007, , .		2
114	A Novel Micro-spraying System for Preparing Polymer-coated Intravascular Stent. , 2007, , .		3
115	In-vitro assays of polymer-coated stents eluting platelet glycoprotein IIb/IIIa receptor monoclonal antibody. <i>Journal of Biomedical Materials Research - Part A</i> , 2007, 83A, 861-867.	2.1	12
116	Biocompatibility study of plasma-coated nitinol (NiTi alloy) stents. <i>IET Nanobiotechnology</i> , 2007, 1, 102.	1.9	16
117	Cloning, sequencing and expression of the xylanase gene from a <i>Bacillus subtilis</i> strain B10 in <i>Escherichia coli</i> . <i>Bioresource Technology</i> , 2006, 97, 802-808.	4.8	56
118	Concentration polarization of atherogenic lipids in the arterial system. <i>Science in China Series C: Life Sciences</i> , 2003, 46, 153.	1.3	13
119	Concentration polarization of macromolecules in canine carotid arteries and its implication for the localization of atherogenesis. <i>Journal of Biomechanics</i> , 2003, 36, 45-51.	0.9	41