Gui-Xue Wang

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/8002721/publications.pdf

Version: 2024-02-01

86 papers	2,680 citations	185998 28 h-index	223531 46 g-index
87 all docs	87 docs citations	87 times ranked	3263 citing authors

#	Article	IF	Citations
1	Desulfovibrio desulfuricans aggravates atherosclerosis by enhancing intestinal permeability and endothelial TLR4/NF-ÎºB pathway in Apoe mice. Genes and Diseases, 2023, 10, 239-253.	1.5	15
2	Two-stage degradation and novel functional endothelium characteristics of a 3-D printed bioresorbable scaffold. Bioactive Materials, 2022, 10, 378-396.	8.6	19
3	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
4	G3BP2 regulates oscillatory shear stress-induced endothelial dysfunction. Genes and Diseases, 2022, 9, 1701-1715.	1.5	5
5	A study of lovastatin and <scp>l</scp>-arginine co-loaded PLGA nanomedicine for enhancing nitric oxide production and eNOS expression. Journal of Materials Chemistry B, 2022, 10, 607-624.	2.9	9
6	Protein tyrosine nitration in atherosclerotic endothelial dysfunction. Clinica Chimica Acta, 2022, 529, 34-41.	0.5	7
7	TET1s deficiency exacerbates oscillatory shear flow-induced atherosclerosis. International Journal of Biological Sciences, 2022, 18, 2163-2180.	2.6	13
8	Dosage of Dual-Protein Nutrition Differentially Impacts the Formation of Atherosclerosis in ApoEâ^'/â^' Mice. Nutrients, 2022, 14, 855.	1.7	2
9	Alterations in gut microbiota and physiological factors associated with abdominal aortic aneurysm. Medicine in Novel Technology and Devices, 2022, 14, 100122.	0.9	2
10	Overexpressed VLA-4 on endothelial cell membrane camouflaging the pathological reactive oxygen species responsive prodrug to enhance target therapy for atherosclerosis. Chemical Engineering Journal, 2022, 442, 136198.	6.6	9
11	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
12	Macrophage membrane functionalized biomimetic nanoparticles for targeted anti-atherosclerosis applications. Theranostics, 2021, 11, 164-180.	4.6	184
13	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
14	Nanoparticles retard immune cells recruitment in vivo by inhibiting chemokine expression. Biomaterials, 2021, 265, 120392.	5.7	19
15	Bioengineering CXCR4-overexpressing cell membrane functionalized ROS-responsive nanotherapeutics for targeting cerebral ischemia-reperfusion injury. Theranostics, 2021, 11, 8043-8056.	4.6	32
16	Unexpected Role of Nonimmune Cells: Amateur Phagocytes. DNA and Cell Biology, 2021, 40, 157-171.	0.9	9
17	Phagocytosis of polymeric nanoparticles aided activation of macrophages to increase atherosclerotic plaques in ApoEâ^'/â^' mice. Journal of Nanobiotechnology, 2021, 19, 121.	4.2	19
18	Recent advances of electrochemical sensors for detecting and monitoring ROS/RNS. Biosensors and Bioelectronics, 2021, 179, 113052.	5.3	55

#	Article	IF	Citations
19	ROS-responsive biomimetic nanoparticles for potential application in targeted anti-atherosclerosis. International Journal of Energy Production and Management, 2021, 8, rbab033.	1.9	38
20	Cadmium-induced dysfunction of the blood-brain barrier depends on ROS-mediated inhibition of PTPase activity in zebrafish. Journal of Hazardous Materials, 2021, 412, 125198.	6.5	41
21	Bioresorption Control and Biological Response of Magnesium Alloy AZ31 Coated with Poly-Î²-Hydroxybutyrate. Applied Sciences (Switzerland), 2021, 11, 5627.	1.3	6
22	Microcystin-leucine arginine blocks vasculogenesis and angiogenesis through impairing cytoskeleton and impeding endothelial cell migration by downregulating integrin-mediated Rho/ROCK signaling pathway. Environmental Science and Pollution Research, 2021, 28, 67108-67119.	2.7	9
23	â€œPlug and Playâ€•Functionalized Erythrocyte Nanoplatform for Target Atherosclerosis Management. ACS Applied Materials & Interfaces, 2021, 13, 33862-33873.	4.0	27
24	Multistage-responsive nanovehicle to improve tumor penetration for dual-modality imaging-guided photodynamic-immunotherapy. Biomaterials, 2021, 275, 120990.	5.7	33
25	Engineered bioresponsive nanotherapeutics: recent advances in the treatment of atherosclerosis and ischemic-related disease. Journal of Materials Chemistry B, 2021, 9, 4804-4825.	2.9	7
26	Functionalized nanoparticles with monocyte membranes and rapamycin achieve synergistic chemoimmunotherapy for reperfusion-induced injury in ischemic stroke. Journal of Nanobiotechnology, 2021, 19, 331.	4.2	21
27	Macrophage membrane camouflaged reactive oxygen species responsive nanomedicine for efficiently inhibiting the vascular intimal hyperplasia. Journal of Nanobiotechnology, 2021, 19, 374.	4.2	23
28	The interplay of signaling pathway in endothelial cellsâ€”matrix stiffness dependency with targeted-therapeutic drugs. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2020, 1866, 165645.	1.8	13
29	Lactic acid-mediated endothelial to mesenchymal transition through TGF-Î²1 contributes to in-stent stenosis in poly-L-lactic acid stent. International Journal of Biological Macromolecules, 2020, 155, 1589-1598.	3.6	13
30	Recent advances in micro- and nano-bubbles for atherosclerosis applications. Biomaterials Science, 2020, 8, 4920-4939.	2.6	17
31	SRGN, a new identified shear-stress-responsive gene in endothelial cells. Molecular and Cellular Biochemistry, 2020, 474, 15-26.	1.4	9
32	Downregulation of G3BP2 reduces atherosclerotic lesions in ApoE mice. Atherosclerosis, 2020, 310, 64-74.	0.4	11
33	From bulk to nano-delivery of essential phytochemicals: recent progress and strategies for antibacterial resistance. Journal of Materials Chemistry B, 2020, 8, 9825-9835.	2.9	17
34	Effects of different positions of intravascular stent implantation in stenosed vessels on in-stent restenosis: An experimental and numerical simulation study. Journal of Biomechanics, 2020, 113, 110089.	0.9	11
35	Anti-atherosclerotic effects of Lactobacillus plantarum ATCC 14917 in ApoEâˆ’/âˆ’ mice through modulation of proinflammatory cytokines and oxidative stress. Applied Microbiology and Biotechnology, 2020, 104, 6337-6350.	1.7	32
36	Nanoerythrocyte Membraneâ€“Enveloped ROSâ€Responsive 5â€Aminolevulinic Acid Prodrug Nanostructures with Robust Atheroprotection. Particle and Particle Systems Characterization, 2020, 37, 2000021.	1.2	15

#	Article	IF	Citations
37	Amelioration of TMAO through probiotics and its potential role in atherosclerosis. Applied Microbiology and Biotechnology, 2019, 103, 9217-9228.	1.7	42
38	Systematical evolution on a Znâ€“Mg alloy potentially developed for biodegradable cardiovascular stents. Journal of Materials Science: Materials in Medicine, 2019, 30, 122.	1.7	17
39	Micromechanical property analyses of decellularized vessels by atomic force microscopy. Journal Physics D: Applied Physics, 2019, 52, 425401.	1.3	5
40	Microvascular endothelial cells engulf myelin debris and promote macrophage recruitment and fibrosis after neural injury. Nature Neuroscience, 2019, 22, 421-435.	7.1	150
41	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
42	Transforming stealthy to sticky nanocarriers: a potential application for tumor therapy. Biomaterials Science, 2019, 7, 3581-3593.	2.6	12
43	Updates in understanding the hypocholesterolemia effect of probiotics on atherosclerosis. Applied Microbiology and Biotechnology, 2019, 103, 5993-6006.	1.7	31
44	Biomimetic Nanotherapies: Red Blood Cell Based Coreâ€“Shell Structured Nanocomplexes for Atherosclerosis Management. Advanced Science, 2019, 6, 1900172.	5.6	194
45	Inhibition of in-stent restenosis after graphene oxide double-layer drug coating with good biocompatibility. International Journal of Energy Production and Management, 2019, 6, 299-309.	1.9	24
46	Atherosclerosis Treatment with Stimuliâ€Responsive Nanoagents: Recent Advances and Future Perspectives. Advanced Healthcare Materials, 2019, 8, e1900036.	3.9	55
47	Beneficial effects of Enterococcus faecalis in hypercholesterolemic mice on cholesterol transportation and gut microbiota. Applied Microbiology and Biotechnology, 2019, 103, 3181-3191.	1.7	28
48	Advanced drug-delivery systems: mechanoresponsive nanoplatforms applicable in atherosclerosis management. Nanomedicine, 2019, 14, 3105-3122.	1.7	12
49	Mechanical properties, degradation behaviors and biocompatibility evaluation of a biodegradable Zn-Mg-Cu alloy for cardiovascular implants. Materials Letters, 2019, 234, 294-297.	1.3	31
50	Corrosion behavior and biocompatibility evaluation of a novel zincâ€based alloy stent in rabbit carotid artery model. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2019, 107, 1814-1823.	1.6	24
51	Microcystin-LR induces angiodysplasia and vascular dysfunction through promoting cell apoptosis by the mitochondrial signaling pathway. Chemosphere, 2019, 218, 438-448.	4.2	32
52	Design, Preparation, and Performance of a Novel Bilayer Tissueâ€Engineered Smallâ€Diameter Vascular Graft. Macromolecular Bioscience, 2019, 19, e1800189.	2.1	27
53	Overview of Crosstalk Between Multiple Factor of Transcytosis in Blood Brain Barrier. Frontiers in Neuroscience, 2019, 13, 1436.	1.4	31
54	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

#	Article	IF	Citations
55	Dynamic Dispersal of Surface Layer Biofilm Induced by Nanosized TiO 2 Based on Surface Plasmon Resonance and Waveguide. Applied and Environmental Microbiology, 2018, 84, .	1.4	9
56	Synthesis and characterization of pyrene modified polyethylenimine as a novel fluorescent self-reporter for gene condensation. Materials Chemistry and Physics, 2018, 211, 177-180.	2.0	4
57	Arsenic Trioxideâ€“Coated Stent Is an Endotheliumâ€Friendly Drug Eluting Stent. Advanced Healthcare Materials, 2018, 7, e1800207.	3.9	19
58	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
59	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
60	Biodegradable stents for coronary artery disease treatment: Recent advances and future perspectives. Materials Science and Engineering C, 2018, 91, 163-178.	3.8	116
61	Acid-Activated Melittin for Targeted and Safe Antitumor Therapy. Bioconjugate Chemistry, 2018, 29, 2936-2944.	1.8	25
62	Endogenous pH-responsive nanoparticles with programmable size changes for targeted tumor therapy and imaging applications. Theranostics, 2018, 8, 3038-3058.	4.6	159
63	Hyperlipidemia-induced apoptosis of hippocampal neurons in apoE(â^’/â^’) mice may be associated with increased PCSK9 expression. Molecular Medicine Reports, 2017, 15, 712-718.	1.1	39
64	Design, preparation and performance of a novel drug-eluting stent with multiple layer coatings. Biomaterials Science, 2017, 5, 1845-1857.	2.6	33
65	Cytotoxic effects of docetaxel as a candidate drug of drug-eluting stent on human umbilical vein endothelial cells and the signaling pathway of cell migration inhibition, adhesion delay and shape change. International Journal of Energy Production and Management, 2017, 4, 167-178.	1.9	20
66	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
67	Elevating VEGF-A and PDGF-BB secretion by salidroside enhances neoangiogenesis in diabetic hind-limb ischemia. Oncotarget, 2017, 8, 97187-97205.	0.8	23
68	Functional regulatory roles of microRNAs in atherosclerosis. Clinica Chimica Acta, 2016, 460, 164-171.	0.5	42
69	High shear stress induces atherosclerotic vulnerable plaque formation through angiogenesis. International Journal of Energy Production and Management, 2016, 3, 257-267.	1.9	59
70	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
71	Redox regulation in the thylakoid lumen. Journal of Plant Physiology, 2016, 192, 28-37.	1.6	22
72	Re-Endothelialization Study on Endovascular Stents Seeded by Endothelial Cells through Up- or Downregulation of VEGF. ACS Applied Materials & Interfaces, 2016, 8, 7578-7589.	4.0	42

#	Article	IF	Citations
73	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
74	Distinctive effects of CD34- and CD133-specific antibody-coated stents on re-endothelialization and in-stent restenosis at the early phase of vascular injury. International Journal of Energy Production and Management, 2015, 2, 87-96.	1.9	37
75	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
76	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
77	Adsorption behavior of tightly bound extracellular polymeric substances on model organic surfaces under different pH and cations with surface plasmon resonance. Water Research, 2014, 57, 31-39.	5.3	56
78	Coronary drugâ€eluting stents: From design optimization to newer strategies. Journal of Biomedical Materials Research - Part A, 2014, 102, 1625-1640.	2.1	46
79	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
80	In vitro and in vivo 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
81	Endothelialization and inâ€stent restenosis on the surface of glycoprotein IIIa monoclonal antibody eluting stent. Journal of Biomedical Materials Research - Part A, 2012, 100A, 1398-1406.	2.1	10
82	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
83	Mesenchymal stem cell seeding promotes reendothelialization of the endovascular stent. Journal of Biomedical Materials Research - Part A, 2011, 98A, 442-449.	2.1	24
84	Influence of surface microroughness by plasma deposition and chemical erosion followed by TiO₂ coating upon anticoagulation, hydrophilicity, and corrosion resistance of NiTi alloy stent. Journal of Biomedical Materials Research - Part A, 2008, 85A, 1096-1102.	2.1	11
85	The Biological Effect of Strong Electric Field Stimulation on the Dry and the Wet Rice Seeds. , 2007, , .		0
86	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