

Xiaowei Wang

List of Publications by Year in descending order

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79
papers

3,066
citations

172457

29
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175258

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docs citations

84
times ranked

4439
citing authors

#	ARTICLE	IF	CITATIONS
1	Genome-wide CRISPR screens reveal a Wnt-FZD5 signaling circuit as a druggable vulnerability of RNF43-mutant pancreatic tumors. <i>Nature Medicine</i> , 2017, 23, 60-68.	30.7	261
2	Higher mortality of COVID-19 in males: sex differences in immune response and cardiovascular comorbidities. <i>Cardiovascular Research</i> , 2020, 116, 2197-2206.	3.8	205
3	Transitional changes in the CRP structure lead to the exposure of proinflammatory binding sites. <i>Nature Communications</i> , 2017, 8, 14188.	12.8	158
4	Novel Single-Chain Antibody-Targeted Microbubbles for Molecular Ultrasound Imaging of Thrombosis. <i>Circulation</i> , 2012, 125, 3117-3126.	1.6	150
5	Î±-Tocopherol preserves cardiac function by reducing oxidative stress and inflammation in ischemia/reperfusion injury. <i>Redox Biology</i> , 2019, 26, 101292.	9.0	138
6	Platelet-Derived Microvesicles in Cardiovascular Diseases. <i>Frontiers in Cardiovascular Medicine</i> , 2017, 4, 74.	2.4	120
7	Thrombus-Targeted Theranostic Microbubbles: A New Technology towards Concurrent Rapid Ultrasound Diagnosis and Bleeding-free Fibrinolytic Treatment of Thrombosis. <i>Theranostics</i> , 2016, 6, 726-738.	10.0	112
8	Enzymatic Single-Chain Antibody Tagging. <i>Circulation Research</i> , 2011, 109, 365-373.	4.5	90
9	Myocardial Infarction-From Atherosclerosis to Thrombosis. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2019, 39, e176-e185.	2.4	90
10	Platelets in cardiac ischaemia/reperfusion injury: a promising therapeutic target. <i>Cardiovascular Research</i> , 2019, 115, 1178-1188.	3.8	79
11	Molecular imaging of activated platelets via antibody-targeted ultra-small iron oxide nanoparticles displaying unique dual MRI contrast. <i>Biomaterials</i> , 2017, 134, 31-42.	11.4	78
12	Towards Effective and Safe Thrombolysis and Thromboprophylaxis. <i>Circulation Research</i> , 2014, 114, 1083-1093.	4.5	76
13	Multifunctional Thrombin-Activatable Polymer Capsules for Specific Targeting to Activated Platelets. <i>Advanced Materials</i> , 2015, 27, 5153-5157.	21.0	73
14	Delayed targeting of CD39 to activated platelet GPIIb/IIIa via a single-chain antibody: breaking the link between antithrombotic potency and bleeding?. <i>Blood</i> , 2013, 121, 3067-3075.	1.4	72
15	Amyloid Plaques Dissociate Pentameric to Monomeric C-reactive Protein: A Novel Pathomechanism Driving Cortical Inflammation in Alzheimer's Disease?. <i>Brain Pathology</i> , 2012, 22, 337-346.	4.1	70
16	Nanoporous Metal-Phenolic Particles as Ultrasound Imaging Probes for Hydrogen Peroxide. <i>Advanced Healthcare Materials</i> , 2015, 4, 2170-2175.	7.6	57
17	Molecular Imaging of Atherothrombotic Diseases. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2017, 37, 1029-1040.	2.4	54
18	Therapeutic targeting in nanomedicine: the future lies in recombinant antibodies. <i>Nanomedicine</i> , 2017, 12, 1873-1889.	3.3	53

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19	Dual-Contrast Molecular Imaging Allows Noninvasive Characterization of Myocardial Ischemia/Reperfusion Injury After Coronary Vessel Occlusion in Mice by Magnetic Resonance Imaging. <i>Circulation</i> , 2014, 130, 676-687.	1.6	52
20	A Versatile Approach for the Site-Specific Modification of Recombinant Antibodies Using a Combination of Enzyme-Mediated Bioconjugation and Click Chemistry. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 7515-7519.	13.8	48
21	Particle generation, functionalization and sortase A-mediated modification with targeting of single-chain antibodies for diagnostic and therapeutic use. <i>Nature Protocols</i> , 2015, 10, 90-105.	12.0	45
22	A single-chain antibody-CD39 fusion protein targeting activated platelets protects from cardiac ischaemia/reperfusion injury. <i>European Heart Journal</i> , 2018, 39, 111-116.	2.2	45
23	Targeting Activated Platelets: A Unique and Potentially Universal Approach for Cancer Imaging. <i>Theranostics</i> , 2017, 7, 2565-2574.	10.0	43
24	Dual-Targeted Theranostic Delivery of miRs Arrests Abdominal Aortic Aneurysm Development. <i>Molecular Therapy</i> , 2018, 26, 1056-1065.	8.2	43
25	Single-Chain Antibody Conjugated to a Cage Amine Chelator and Labeled with Positron-Emitting Copper-64 for Diagnostic Imaging of Activated Platelets. <i>Molecular Pharmaceutics</i> , 2014, 11, 2855-2863.	4.6	42
26	The choice of targets and ligands for site-specific delivery of nanomedicine to atherosclerosis. <i>Cardiovascular Research</i> , 2020, 116, 2055-2068.	3.8	37
27	Platelet-Targeted Delivery of Peripheral Blood Mononuclear Cells to the Ischemic Heart Restores Cardiac Function after Ischemia-Reperfusion Injury. <i>Theranostics</i> , 2017, 7, 3192-3206.	10.0	36
28	Changes in the clinical and histological characteristics of Chinese chronic rhinosinusitis with nasal polyps over 11 years. <i>International Forum of Allergy and Rhinology</i> , 2019, 9, 149-157.	2.8	35
29	Lysophosphatidylcholine is a Major Component of Platelet Microvesicles Promoting Platelet Activation and Reporting Atherosclerotic Plaque Instability. <i>Thrombosis and Haemostasis</i> , 2019, 119, 1295-1310.	3.4	32
30	Activated platelets in the tumor microenvironment for targeting of antibody-drug conjugates to tumors and metastases. <i>Theranostics</i> , 2019, 9, 1154-1169.	10.0	32
31	Near-infrared light-responsive liposomes for protein delivery: Towards bleeding-free photothermally-assisted thrombolysis. <i>Journal of Controlled Release</i> , 2021, 337, 212-223.	9.9	32
32	Cationic Nanoliposomes Meet mRNA: Efficient Delivery of Modified mRNA Using Hemocompatible and Stable Vectors for Therapeutic Applications. <i>Molecular Therapy - Nucleic Acids</i> , 2017, 8, 459-468.	5.1	31
33	Multi-targeted 1H/19F MRI unmasks specific danger patterns for emerging cardiovascular disorders. <i>Nature Communications</i> , 2021, 12, 5847.	12.8	31
34	Platelets in Multiple Sclerosis: Early and Central Mediators of Inflammation and Neurodegeneration and Attractive Targets for Molecular Imaging and Site-Directed Therapy. <i>Frontiers in Immunology</i> , 2021, 12, 620963.	4.8	27
35	Asiatic Acid Alleviates Myocardial Ischemia-Reperfusion Injury by Inhibiting the ROS-Mediated Mitochondria-Dependent Apoptosis Pathway. <i>Oxidative Medicine and Cellular Longevity</i> , 2022, 2022, 1-16.	4.0	27
36	Prelplantation factor prevents atherosclerosis via its immunomodulatory effects without affecting serum lipids. <i>Thrombosis and Haemostasis</i> , 2016, 115, 1010-1024.	3.4	26

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37	Structure-guided design fine-tunes pharmacokinetics, tolerability, and antitumor profile of multispecific frizzled antibodies. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 6812-6817.	7.1	23
38	Platelet Depletion is Effective in Ameliorating Anxiety-Like Behavior and Reducing the Pro-Inflammatory Environment in the Hippocampus in Murine Experimental Autoimmune Encephalomyelitis. Journal of Clinical Medicine, 2019, 8, 162.	2.4	23
39	Resveratrol activates PI3K/AKT to reduce myocardial cell apoptosis and mitochondrial oxidative damage caused by myocardial ischemia/reperfusion injury. Acta Histochemica, 2021, 123, 151739.	1.8	23
40	Platelet-targeted dual pathway antithrombotic inhibits thrombosis with preserved hemostasis. JCI Insight, 2018, 3, .	5.0	23
41	A Unique Recombinant Fluoroprobe Targeting Activated Platelets Allows <i>In Vivo</i> Detection of Arterial Thrombosis and Pulmonary Embolism Using a Novel Three-Dimensional Fluorescence Emission Computed Tomography (FLECT) Technology. Theranostics, 2017, 7, 1047-1061.	10.0	22
42	Nanoliposomes for Safe and Efficient Therapeutic mRNA Delivery: A Step Toward Nanotheranostics in Inflammatory and Cardiovascular Diseases as well as Cancer. Nanotheranostics, 2017, 1, 154-165.	5.2	21
43	Targeting CD39 Toward Activated Platelets Reduces Systemic Inflammation and Improves Survival in Sepsis: A Preclinical Pilot Study*. Critical Care Medicine, 2019, 47, e420-e427.	0.9	21
44	Ultrasonic particles: An approach for targeted gene delivery. Advanced Drug Delivery Reviews, 2021, 179, 113998.	13.7	20
45	Role, molecular mechanism and the potential target of breast cancer stem cells in breast cancer development. Biomedicine and Pharmacotherapy, 2022, 147, 112616.	5.6	20
46	Dynamic Solid-State Ultrasound Contrast Agent for Monitoring pH Fluctuations In Vivo. ACS Sensors, 2020, 5, 1190-1197.	7.8	17
47	Fluorine-19 Magnetic Resonance Imaging of Activated Platelets. Journal of the American Heart Association, 2020, 9, e016971.	3.7	14
48	Considerations for the Bioengineering of Advanced Cardiac In Vitro Models of Myocardial Infarction. Small, 2021, 17, e2003765.	10.0	14
49	P2Y12 receptor blockers are anti-inflammatory drugs inhibiting both circulating monocytes and macrophages including THP-1 cells. Scientific Reports, 2021, 11, 17459.	3.3	14
50	The pulmonary microvasculature entraps induced vascular progenitor cells (iVPCs) systemically delivered after cardiac ischemia-reperfusion injury: Indication for preservation of heart function via paracrine effects beyond engraftment. Microcirculation, 2019, 26, e12493.	1.8	13
51	Successful renal denervation decreases the platelet activation status in hypertensive patients. Cardiovascular Research, 2020, 116, 202-210.	3.8	13
52	A DARPin targeting activated Mac-1 is a novel diagnostic tool and potential anti-inflammatory agent in myocarditis, sepsis and myocardial infarction. Basic Research in Cardiology, 2021, 116, 17.	5.9	12
53	Molecular imaging of arterial and venous thrombosis. British Journal of Pharmacology, 2021, 178, 4246-4269.	5.4	11
54	Nanobiotechnology approaches for cardiovascular diseases: site-specific targeting of drugs and nanoparticles for atherothrombosis. Journal of Nanobiotechnology, 2022, 20, 75.	9.1	11

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55	Intranasal application of glucocorticoid alleviates olfactory dysfunction in mice with allergic rhinitis. <i>Experimental and Therapeutic Medicine</i> , 2017, 14, 3971-3978.	1.8	10
56	Combined Antiplatelet/Anticoagulant Drug for Cardiac Ischemia/Reperfusion Injury. <i>Circulation Research</i> , 2020, 127, 1211-1213.	4.5	10
57	Clinical effects of p53 overexpression in squamous cell carcinoma of the sinonasal tract. <i>Medicine (United States)</i> , 2017, 96, e6424.	1.0	9
58	An Ultrasound-Responsive Theranostic Cyclodextrin-Loaded Nanoparticle for Multimodal Imaging and Therapy for Atherosclerosis. <i>Small</i> , 2022, 18, .	10.0	9
59	Smart Delivery of Plasminogen Activators for Efficient Thrombolysis; Recent Trends and Future Perspectives. <i>Advanced Therapeutics</i> , 2021, 4, 2100047.	3.2	7
60	Pharmacological Inhibition of Factor XIIa Attenuates Abdominal Aortic Aneurysm, Reduces Atherosclerosis, and Stabilizes Atherosclerotic Plaques. <i>Thrombosis and Haemostasis</i> , 2022, 122, 196-207.	3.4	7
61	Biofabrication of advanced in vitro 3D models to study ischaemic and doxorubicin-induced myocardial damage. <i>Biofabrication</i> , 2022, 14, 025003.	7.1	7
62	Antithrombotic Therapy in Myocardial Infarction: Historic Perils and Current Challenges—A 70-Year Journey. <i>Thrombosis and Haemostasis</i> , 2020, 120, 1352-1356.	3.4	6
63	Off-pump versus on-pump coronary artery bypass grafting for octogenarians: A meta-analysis involving 146,372 patients. <i>Clinical Cardiology</i> , 2022, 45, 331-341.	1.8	6
64	Mesoscale Nanoparticles. <i>Hypertension</i> , 2018, 71, 61-63.	2.7	5
65	Inflammatory Myofibroblastic Tumors in Paranasal Sinus and Nasopharynx: A Clinical Retrospective Study of 13 Cases. <i>BioMed Research International</i> , 2018, 2018, 1-9.	1.9	5
66	Generation of Cationic Nanoliposomes for the Efficient Delivery of <i>In Vitro</i> Transcribed Messenger RNA. <i>Journal of Visualized Experiments</i> , 2019, , .	0.3	5
67	Visions by Women in Molecular Imaging Network: Antiracism and Allyship in Action. <i>Molecular Imaging and Biology</i> , 2021, 23, 301-309.	2.6	5
68	A Recombinant Fusion Construct between Human Serum Albumin and NTPDase CD39 Allows Anti-Inflammatory and Anti-Thrombotic Coating of Medical Devices. <i>Pharmaceutics</i> , 2021, 13, 1504.	4.5	5
69	Clinical Characteristics and Surgical Outcomes of Sinonasal Lesions Associated With Tumor-Induced Osteomalacia. <i>Otolaryngology - Head and Neck Surgery</i> , 2021, 165, 223-231.	1.9	4
70	Functional genomic characterization of a synthetic anti-HER3 antibody reveals a role for ubiquitination by RNF41 in the anti-proliferative response. <i>Journal of Biological Chemistry</i> , 2019, 294, 1396-1409.	3.4	3
71	Promoted antitumor therapy on pancreatic cancer by a novel recombinant human albumin-bound miriplatin nanoparticle. <i>European Journal of Pharmaceutical Sciences</i> , 2021, 167, 106000.	4.0	3
72	Transcriptomic and Lipidomic Profiles in Nasal Polyps of Glucocorticoid Responders and Non-Responders: Before and After Treatment. <i>Frontiers in Pharmacology</i> , 2021, 12, 814953.	3.5	3

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73	Mending the failing heart. <i>Aging</i> , 2019, 11, 1605-1606.	3.1	2
74	¹⁸ F Site-Specific Labelling of a Single-Chain Antibody against Activated Platelets for the Detection of Acute Thrombosis in Positron Emission Tomography. <i>International Journal of Molecular Sciences</i> , 2022, 23, 6886.	4.1	2
75	Targeted Microbubbles Loaded with microRNA for a Theranostic Approach of Abdominal Aortic Aneurysms. <i>Atherosclerosis Supplements</i> , 2018, 32, 20.	1.2	0
76	Prime time viewing of the ischaemic heart: new technologies allow imaging and flow assessment of the microvasculature in the beating heart. <i>Cardiovascular Research</i> , 2019, 115, 1817-1819.	3.8	0
77	Early Endothelial Activation in a Mouse Model of Graft vs Host Disease Following Chemotherapy. <i>Frontiers in Immunology</i> , 2021, 12, 708554.	4.8	0
78	Sarcomatoid carcinoma in the sinonasal cavity: A retrospective case series from a single institution. <i>Auris Nasus Larynx</i> , 2022, , .	1.2	0
79	P2Y12 Antagonists in Cardiovascular Disease—Finding the Best Balance Between Preventing Ischemic Events and Causing Bleeding. <i>Frontiers in Cardiovascular Medicine</i> , 2022, 9, .	2.4	0