

# Xiawei Wei

## List of Publications by Year in descending order

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Version: 2024-02-01

80  
papers

5,955  
citations

87723

38  
h-index

82410

72  
g-index

82  
all docs

82  
docs citations

82  
times ranked

9541  
citing authors

#	ARTICLE	IF	CITATIONS
1	A vaccine targeting the RBD of the S protein of SARS-CoV-2 induces protective immunity. <i>Nature</i> , 2020, 586, 572-577.	13.7	630
2	A mouse model for SARS-CoV-2-induced acute respiratory distress syndrome. <i>Signal Transduction and Targeted Therapy</i> , 2021, 6, 1.	7.1	558
3	SARS-CoV-2 Omicron variant: Characteristics and prevention. <i>MedComm</i> , 2021, 2, 838-845.	3.1	364
4	Biodegradable poly( $\epsilon$ -caprolactone)-poly(ethylene glycol) copolymers as drug delivery system. <i>International Journal of Pharmaceutics</i> , 2009, 381, 1-18.	2.6	322
5	Autophagy impairment with lysosomal and mitochondrial dysfunction is an important characteristic of oxidative stress-induced senescence. <i>Autophagy</i> , 2017, 13, 99-113.	4.3	234
6	AMPK activation protects cells from oxidative stress-induced senescence via autophagic flux restoration and intracellular NAD <sup>+</sup> elevation. <i>Aging Cell</i> , 2016, 15, 416-427.	3.0	220
7	Cationic nanocarriers induce cell necrosis through impairment of Na <sup>+</sup> /K <sup>+</sup> -ATPase and cause subsequent inflammatory response. <i>Cell Research</i> , 2015, 25, 237-253.	5.7	218
8	Improving antiangiogenesis and anti-tumor activity of curcumin by biodegradable polymeric micelles. <i>Biomaterials</i> , 2013, 34, 1413-1432.	5.7	209
9	Artificial Virus Delivers CRISPR-Cas9 System for Genome Editing of Cells in Mice. <i>ACS Nano</i> , 2017, 11, 95-111.	7.3	202
10	Epigenetic regulation of macrophages: from homeostasis maintenance to host defense. <i>Cellular and Molecular Immunology</i> , 2020, 17, 36-49.	4.8	196
11	Anticancer effect and mechanism of polymer micelle-encapsulated quercetin on ovarian cancer. <i>Nanoscale</i> , 2012, 4, 7021.	2.8	144
12	Mitochondrial DNA in the regulation of innate immune responses. <i>Protein and Cell</i> , 2016, 7, 11-16.	4.8	128
13	Role of the CCL2-CCR2 signalling axis in cancer: Mechanisms and therapeutic targeting. <i>Cell Proliferation</i> , 2021, 54, e131115.	2.4	115
14	Inflammatory Cytokines in Cancer: Comprehensive Understanding and Clinical Progress in Gene Therapy. <i>Cells</i> , 2021, 10, 100.	1.8	104
15	Role of lysosomes in physiological activities, diseases, and therapy. <i>Journal of Hematology and Oncology</i> , 2021, 14, 79.	6.9	98
16	PCL/PEG Copolymeric Nanoparticles: Potential Nanoplatfoms for Anticancer Agent Delivery. <i>Current Drug Targets</i> , 2011, 12, 1131-1150.	1.0	87
17	Surgical trauma-induced immunosuppression in cancer: Recent advances and the potential therapies. <i>Clinical and Translational Medicine</i> , 2020, 10, 199-223.	1.7	84
18	Targeting folate receptor $\beta^2$ positive tumor-associated macrophages in lung cancer with a folate-modified liposomal complex. <i>Signal Transduction and Targeted Therapy</i> , 2020, 5, 6.	7.1	83

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19	Inhibition of FGFâ€¦FGFR and VEGFâ€¦VEGFR signalling in cancer treatment. <i>Cell Proliferation</i> , 2021, 54, e13009.	2.4	76
20	Biodegradable self-assembled PEGâ€¦PCLâ€¦PEG micelles for hydrophobic honokiol delivery: I. Preparation and characterization. <i>Nanotechnology</i> , 2010, 21, 215103.	1.3	74
21	SARSâ€¦CoVâ€¦2 Omicron variant: Immune escape and vaccine development. <i>MedComm</i> , 2022, 3, e126.	3.1	74
22	Preparation, characterization and application of star-shaped PCL/PEG micelles for the delivery of doxorubicin in the treatment of colon cancer. <i>International Journal of Nanomedicine</i> , 2013, 8, 971.	3.3	68
23	Self-assembled honokiol-loaded micelles based on poly(É-caprolactone)-poly(ethylene) Tj ETQq1 1 0.784314 rgBT JOverlock 10 Tf 50 58	2.6	67
24	Myeloid-Derived Suppressor Cells Promote Metastasis in Breast Cancer After the Stress of Operative Removal of the Primary Cancer. <i>Frontiers in Oncology</i> , 2019, 9, 855.	1.3	66
25	Delivering instilled hydrophobic drug to the bladder by a cationic nanoparticle and thermo-sensitive hydrogel composite system. <i>Nanoscale</i> , 2012, 4, 6425.	2.8	62
26	Induction of neutrophil extracellular traps during tissue injury: Involvement of STING and Tollâ€¦like receptor 9 pathways. <i>Cell Proliferation</i> , 2019, 52, e12579.	2.4	60
27	Structural insights into outer membrane asymmetry maintenance in Gram-negative bacteria by MlaFEDB. <i>Nature Structural and Molecular Biology</i> , 2021, 28, 81-91.	3.6	57
28	Heat stress activates YAP/TAZ to induce the heat shock transcriptome. <i>Nature Cell Biology</i> , 2020, 22, 1447-1459.	4.6	56
29	Cryo-EM structures of lipopolysaccharide transporter LptB2FGC in lipopolysaccharide or AMP-PNP-bound states reveal its transport mechanism. <i>Nature Communications</i> , 2019, 10, 4175.	5.8	51
30	Tumor cells induce LAMP2a expression in tumor-associated macrophage for cancer progression. <i>EBioMedicine</i> , 2019, 40, 118-134.	2.7	50
31	Oxidized mitochondrial DNA sensing by STING signaling promotes the antitumor effect of an irradiated immunogenic cancer cell vaccine. <i>Cellular and Molecular Immunology</i> , 2021, 18, 2211-2223.	4.8	46
32	Inhibition of NPC1L1 disrupts adaptive responses of drugâ€¦tolerant persister cells to chemotherapy. <i>EMBO Molecular Medicine</i> , 2022, 14, e14903.	3.3	46
33	Hyaluronan Reduces Cationic Liposome-Induced Toxicity and Enhances the Antitumor Effect of Targeted Gene Delivery in Mice. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 32006-32016.	4.0	43
34	Rapid and simple detection of ascorbic acid and alkaline phosphatase<i>via</i>controlled generation of silver nanoparticles and selective recognition. <i>Analyst, The</i> , 2019, 144, 1147-1152.	1.7	43
35	Biomaterial-assisted biotherapy: A brief review of biomaterials used in drug delivery, vaccine development, gene therapy, and stem cell therapy. <i>Bioactive Materials</i> , 2022, 17, 29-48.	8.6	42
36	Biodegradable self-assembled PEG-PCL-PEG micelles for hydrophobic drug delivery, part 2: in vitro and in vivo toxicity evaluation. <i>Journal of Nanoparticle Research</i> , 2011, 13, 721-731.	0.8	41

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37	Repurposing Brigatinib for the Treatment of Colorectal Cancer Based on Inhibition of ER-phagy. <i>Theranostics</i> , 2019, 9, 4878-4892.	4.6	41
38	Multimode MicroRNA Sensing via Multiple Enzyme-Free Signal Amplification and Cation-Exchange Reaction. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 36476-36484.	4.0	41
39	Carbon black nanoparticles induce cell necrosis through lysosomal membrane permeabilization and cause subsequent inflammatory response. <i>Theranostics</i> , 2020, 10, 4589-4605.	4.6	41
40	Jumonji domain-containing 6 (JMJD6) identified as a potential therapeutic target in ovarian cancer. <i>Signal Transduction and Targeted Therapy</i> , 2019, 4, 24.	7.1	39
41	A bivalent recombinant vaccine targeting the S1 protein induces neutralizing antibodies against both SARS-CoV-2 variants and wild-type of the virus. <i>MedComm</i> , 2021, 2, 430-441.	3.1	37
42	Structural basis for bacterial lipoprotein relocation by the transporter LolCDE. <i>Nature Structural and Molecular Biology</i> , 2021, 28, 347-355.	3.6	36
43	Radiomics based on <sup>18</sup> F-FDG PET/CT could differentiate breast carcinoma from breast lymphoma using machine learning approach: A preliminary study. <i>Cancer Medicine</i> , 2020, 9, 496-506.	1.3	35
44	Spike protein of SARS-CoV-2 Omicron (B.1.1.529) variant has a reduced ability to induce the immune response. <i>Signal Transduction and Targeted Therapy</i> , 2022, 7, 119.	7.1	35
45	Preparation and characterization of monomethoxy poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 427 Td (glycol)-poly(luteolin). <i>International Journal of Nanomedicine</i> , 2013, 8, 3061.	3.3	33
46	Cholesterol-modified Hydroxychloroquine-loaded Nanocarriers in Bleomycin-induced Pulmonary Fibrosis. <i>Scientific Reports</i> , 2017, 7, 10737.	1.6	33
47	Jumonji domain-containing protein 6 protein and its role in cancer. <i>Cell Proliferation</i> , 2020, 53, e12747.	2.4	31
48	The molecular mechanisms of MLKL-dependent and MLKL-independent necrosis. <i>Journal of Molecular Cell Biology</i> , 2021, 13, 3-14.	1.5	31
49	Silver nanoparticles and silver ions cause inflammatory response through induction of cell necrosis and the release of mitochondria in vivo and in vitro. <i>Cell Biology and Toxicology</i> , 2021, 37, 177-191.	2.4	30
50	Novel thermosensitive hydrogel for preventing formation of abdominal adhesions. <i>International Journal of Nanomedicine</i> , 2013, 8, 2453.	3.3	28
51	Thermosensitive $\beta$ -cyclodextrin modified poly( $\mu$ -caprolactone)-poly(ethylene glycol)-poly( $\mu$ -caprolactone) micelles prolong the anti-inflammatory effect of indomethacin following local injection. <i>Acta Biomaterialia</i> , 2013, 9, 6953-6963.	4.1	25
52	Negative regulation of cationic nanoparticle-induced inflammatory toxicity through the increased production of prostaglandin E2 via mitochondrial DNA-activated Ly6C <sup>+</sup> monocytes. <i>Theranostics</i> , 2018, 8, 3138-3152.	4.6	25
53	Targeting Myeloid-Derived Suppressor Cells for Premetastatic Niche Disruption After Tumor Resection. <i>Annals of Surgical Oncology</i> , 2021, 28, 4030-4048.	0.7	25
54	Multifunctional regulatory protein connective tissue growth factor (CTGF): A potential therapeutic target for diverse diseases. <i>Acta Pharmaceutica Sinica B</i> , 2022, 12, 1740-1760.	5.7	25

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55	Cationic nanocarriers as potent adjuvants for recombinant S-RBD vaccine of SARS-CoV-2. <i>Signal Transduction and Targeted Therapy</i> , 2020, 5, 291.	7.1	22
56	Coronavirus in human diseases: Mechanisms and advances in clinical treatment. <i>MedComm</i> , 2020, 1, 270-301.	3.1	22
57	Lymph-Node-Targeted Cholesterolized TLR7 Agonist Liposomes Provoke a Safe and Durable Antitumor Response. <i>Nano Letters</i> , 2021, 21, 7960-7969.	4.5	22
58	Histones released by NETosis enhance the infectivity of SARS-CoV-2 by bridging the spike protein subunit 2 and sialic acid on host cells. , 2022, 19, 577-587.		22
59	In situ antitumor vaccination: Targeting the tumor microenvironment. <i>Journal of Cellular Physiology</i> , 2020, 235, 5490-5500.	2.0	21
60	Intranasal administration of a recombinant RBD vaccine induces long-term immunity against Omicron-included SARS-CoV-2 variants. <i>Signal Transduction and Targeted Therapy</i> , 2022, 7, 159.	7.1	21
61	Sensitive CVG-AFS/ICP-MS label-free nucleic acid and protein assays based on a selective cation exchange reaction and simple filtration separation. <i>Analyst</i> , The, 2019, 144, 2797-2802.	1.7	20
62	Immunological perspectives on the pathogenesis, diagnosis, prevention and treatment of COVID-19. <i>Molecular Biomedicine</i> , 2021, 2, 1.	1.7	20
63	Inhibition of A20 expression in tumor microenvironment exerts anti-tumor effect through inducing myeloid-derived suppressor cells apoptosis. <i>Scientific Reports</i> , 2015, 5, 16437.	1.6	18
64	Inactivated SARS-CoV-2 induces acute respiratory distress syndrome in human ACE2-transgenic mice. <i>Signal Transduction and Targeted Therapy</i> , 2021, 6, 439.	7.1	18
65	Modular Engineering of Targeted Dual-Drug Nanoassemblies for Cancer Chemoimmunotherapy. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 36371-36382.	4.0	17
66	Targeted activation of Stat3 in combination with paclitaxel results in increased apoptosis in epithelial ovarian cancer cells and a reduced tumour burden. <i>Cell Proliferation</i> , 2020, 53, e12719.	2.4	17
67	Current Status of Nonviral Vectors for Gene Therapy in China. <i>Human Gene Therapy</i> , 2018, 29, 110-120.	1.4	16
68	Nanomaterial-Based Drug Delivery System Targeting Lymph Nodes. <i>Pharmaceutics</i> , 2022, 14, 1372.	2.0	14
69	A general strategy for label-free homogeneous bioassays based on selective recognition and silver ion-mediated conformational switch. <i>Talanta</i> , 2019, 201, 9-15.	2.9	12
70	The molecular mechanism of acute liver injury and inflammatory response induced by Concanavalin A. <i>Molecular Biomedicine</i> , 2021, 2, 24.	1.7	11
71	Targeted Nanoparticle-Mediated Gene Therapy Mimics Oncolytic Virus for Effective Melanoma Treatment. <i>Advanced Functional Materials</i> , 2018, 28, 1800173.	7.8	10
72	Targeting the MDSCs of Tumors In Situ With Inhibitors of the MAPK Signaling Pathway to Promote Tumor Regression. <i>Frontiers in Oncology</i> , 2021, 11, 647312.	1.3	9

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73	A dual MET/AXL small-molecule inhibitor exerts efficacy against gastric carcinoma through killing cancer cells as well as modulating tumor microenvironment. <i>MedComm</i> , 2020, 1, 103-118.	3.1	6
74	Crystalline silica induces macrophage necrosis and causes subsequent acute pulmonary neutrophilic inflammation. <i>Cell Biology and Toxicology</i> , 2022, 38, 591-609.	2.4	6
75	Graphene promotes lung cancer metastasis through Wnt signaling activation induced by DAMPs. <i>Nano Today</i> , 2021, 39, 101175.	6.2	6
76	Nanoparticles targeting tumor-associated macrophages: A novel anti-tumor therapy. <i>Nano Research</i> , 2022, 15, 2177-2195.	5.8	6
77	Opportunities and challenges in the nanoparticles for nucleic acid therapeutics: the first approval of an RNAi nanoparticle for treatment of a rare disease. <i>National Science Review</i> , 2019, 6, 1105-1106.	4.6	3
78	Criteria for judging the immune markers of COVID-19 disease vaccines. <i>MedComm</i> , 2022, 3, 1-12.	3.1	3
79	ASO Author Reflections: Perioperative Targeting of the Pre-metastatic Niche Reduces Metastatic Risk After Resection of Solid Tumors. <i>Annals of Surgical Oncology</i> , 2021, 28, 4049-4050.	0.7	0
80	Protocols for measuring phosphorylation, subcellular localization, and kinase activity of Hippo pathway components YAP and LATS in cultured cells. <i>STAR Protocols</i> , 2022, 3, 101102.	0.5	0