

Hangxiang Wang

List of Publications by Year in descending order

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84
papers

4,584
citations

81900

39
h-index

106344

65
g-index

91
all docs

91
docs citations

91
times ranked

5407
citing authors

#	ARTICLE	IF	CITATIONS
1	Alleviating Cancer Drug Toxicity by Inhibiting a Bacterial Enzyme. <i>Science</i> , 2010, 330, 831-835.	12.6	800
2	Stimuli-responsive nanotherapeutics for precision drug delivery and cancer therapy. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2019, 11, e1527.	6.1	231
3	Design and fabrication of conductive polymer hydrogels and their applications in flexible supercapacitors. <i>Journal of Materials Chemistry A</i> , 2020, 8, 23059-23095.	10.3	151
4	Novel tetranuclear ruthenium(II) arene complexes showing potent cytotoxic and antimetastatic activity as well as low toxicity in vivo. <i>European Journal of Medicinal Chemistry</i> , 2019, 179, 246-256.	5.5	140
5	Investigation into antiproliferative activity and apoptosis mechanism of new arene Ru(II) carbazole-based hydrazone complexes. <i>Dalton Transactions</i> , 2020, 49, 11385-11395.	3.3	138
6	Synthesis and Structure of Arene Ru(II) N-S-O-Chelating Complexes: In Vitro Cytotoxicity and Cancer Cell Death Mechanism. <i>Organometallics</i> , 2020, 39, 1366-1375.	2.3	137
7	New Generation Nanomedicines Constructed from Self-Assembling Small-Molecule Prodrugs Alleviate Cancer Drug Toxicity. <i>Cancer Research</i> , 2017, 77, 6963-6974.	0.9	128
8	Self-Assembling Prodrugs by Precise Programming of Molecular Structures that Contribute Distinct Stability, Pharmacokinetics, and Antitumor Efficacy. <i>Advanced Functional Materials</i> , 2015, 25, 4956-4965.	14.9	125
9	Chemical Cell-Surface Receptor Engineering Using Affinity-Guided, Multivalent Organocatalysts. <i>Journal of the American Chemical Society</i> , 2011, 133, 12220-12228.	13.7	102
10	Recent Progress in Strategies for the Creation of Protein-Based Fluorescent Biosensors. <i>ChemBioChem</i> , 2009, 10, 2560-2577.	2.6	98
11	Self-Assembling Myristoylated Human Î±-Defensin 5 as a Next-Generation Nanobiotics Potentiates Therapeutic Efficacy in Bacterial Infection. <i>ACS Nano</i> , 2018, 12, 5284-5296.	14.6	96
12	MMP-9 responsive dipeptide-templated natural protein hydrogel-based wound dressings for accelerated healing action of infected diabetic wound. <i>International Journal of Biological Macromolecules</i> , 2020, 153, 1058-1069.	7.5	89
13	Structure-Based Rational Design of Prodrugs To Enable Their Combination with Polymeric Nanoparticle Delivery Platforms for Enhanced Antitumor Efficacy. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 11532-11537.	13.8	83
14	Renal clearable polyfluorophore nanosensors for early diagnosis of cancer and allograft rejection. <i>Nature Materials</i> , 2022, 21, 598-607.	27.5	81
15	Quenched Ligand-Directed Tosylate Reagents for One-Step Construction of Turn-On Fluorescent Biosensors. <i>Journal of the American Chemical Society</i> , 2009, 131, 9046-9054.	13.7	77
16	Rhodium-Catalyzed Transannulation of N-Sulfonyl-1,2,3-triazoles and Epoxides: Regioselective Synthesis of Substituted 3,4-Dihydro-2H-1,4-oxazines. <i>Organic Letters</i> , 2014, 16, 4554-4557.	4.6	77
17	Cancer Nanomedicines Stabilized by Î±-Î± Stacking between Heterodimeric Prodrugs Enable Exceptionally High Drug Loading Capacity and Safer Delivery of Drug Combinations. <i>Theranostics</i> , 2017, 7, 3638-3652.	10.0	75
18	iRGD-Decorated Polymeric Nanoparticles for the Efficient Delivery of Vandetanib to Hepatocellular Carcinoma: Preparation and in Vitro and in Vivo Evaluation. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 19228-19237.	8.0	73

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19	Orally Deliverable Nanotherapeutics for the Synergistic Treatment of Colitis-Associated Colorectal Cancer. <i>Theranostics</i> , 2019, 9, 7458-7473.	10.0	73
20	A nanomedicine approach enables co-delivery of cyclosporin A and gefitinib to potentiate the therapeutic efficacy in drug-resistant lung cancer. <i>Signal Transduction and Targeted Therapy</i> , 2018, 3, 16.	17.1	71
21	The Hippo pathway as a drug target in gastric cancer. <i>Cancer Letters</i> , 2018, 420, 14-25.	7.2	62
22	One-pot synthesis of 2,3-disubstituted dihydrobenzofurans and benzofurans via rhodium-catalyzed intramolecular C-H insertion reaction. <i>Chemical Communications</i> , 2015, 51, 6862-6865.	4.1	58
23	Poly lactide-tethered prodrugs in polymeric nanoparticles as reliable nanomedicines for the efficient eradication of patient-derived hepatocellular carcinoma. <i>Theranostics</i> , 2018, 8, 3949-3963.	10.0	57
24	Quantitative self-assembly of photoactivatable small molecular prodrug cocktails for safe and potent cancer chemo-photodynamic therapy. <i>Nano Today</i> , 2021, 36, 101030.	11.9	52
25	Transforming a toxic drug into an efficacious nanomedicine using a lipoprodrug strategy for the treatment of patient-derived melanoma xenografts. <i>Journal of Controlled Release</i> , 2020, 324, 289-302.	9.9	51
26	Precise Engineering of Prodrug Cocktails into Single Polymeric Nanoparticles for Combination Cancer Therapy: Extended and Sequentially Controllable Drug Release. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 10567-10576.	8.0	50
27	Preclinical Evaluation of a Cabazitaxel Prodrug Using Nanoparticle Delivery for the Treatment of Taxane-Resistant Malignancies. <i>Molecular Cancer Therapeutics</i> , 2020, 19, 822-834.	4.1	50
28	A Facile Low-Dose Photosensitizer-Incorporated Dissolving Microneedles-Based Composite System for Eliciting Antitumor Immunity and the Abscopal Effect. <i>ACS Nano</i> , 2021, 15, 19468-19479.	14.6	50
29	New Organometallic Ruthenium(II) Compounds Synergistically Show Cytotoxic, Antimetastatic and Antiangiogenic Activities for the Treatment of Metastatic Cancer. <i>Chemistry - A European Journal</i> , 2020, 26, 15170-15182.	3.3	49
30	Protease activated receptor-1 inhibits the Maspin tumor-suppressor gene to determine the melanoma metastatic phenotype. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 626-631.	7.1	47
31	Integrating a novel SN38 prodrug into the PEGylated liposomal system as a robust platform for efficient cancer therapy in solid tumors. <i>International Journal of Pharmaceutics</i> , 2016, 512, 39-48.	5.2	47
32	Quantum dots-based hydrogels for sensing applications. <i>Chemical Engineering Journal</i> , 2021, 408, 127351.	12.7	47
33	<i>N</i> -Heterocyclic Carbene-Stabilized Palladium Complexes as Organometallic Catalysts for Bioorthogonal Cross-Coupling Reactions. <i>Journal of Organic Chemistry</i> , 2014, 79, 8652-8658.	3.2	45
34	Enhancing the Efficacy and Safety of Doxorubicin against Hepatocellular Carcinoma through a Modular Assembly Approach: The Combination of Polymeric Prodrug Design, Nanoparticle Encapsulation, and Cancer Cell-Specific Drug Targeting. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 3229-3240.	8.0	45
35	Tuning the efficacy of esterase-activatable prodrug nanoparticles for the treatment of colorectal malignancies. <i>Biomaterials</i> , 2021, 270, 120705.	11.4	45
36	Structure-Guided Engineering of Cytotoxic Cabazitaxel for an Adaptive Nanoparticle Formulation: Enhancing the Drug Safety and Therapeutic Efficacy. <i>Advanced Functional Materials</i> , 2018, 28, 1804229.	14.9	43

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37	Self-Assembled Gemcitabine Prodrug Nanoparticles Show Enhanced Efficacy against Patient-Derived Pancreatic Ductal Adenocarcinoma. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 3327-3340.	8.0	43
38	Silver Nanoparticles for Enhanced Cancer Theranostics: <i>In Vitro</i> and <i>In Vivo</i> Perspectives. <i>Journal of Biomedical Nanotechnology</i> , 2018, 14, 1515-1542.	1.1	42
39	ZNF830 mediates cancer chemoresistance through promoting homologous-recombination repair. <i>Nucleic Acids Research</i> , 2018, 46, 1266-1279.	14.5	41
40	Pyrene-Stacked Nanostructures Constructed in the Recombinant Tobacco Mosaic Virus Rod Scaffold. <i>Chemistry - A European Journal</i> , 2006, 12, 3735-3740.	3.3	40
41	Deoxycholic acid-modified chitoooligosaccharide/mPEG-PDLLA mixed micelles loaded with paclitaxel for enhanced antitumor efficacy. <i>International Journal of Pharmaceutics</i> , 2014, 475, 60-68.	5.2	39
42	Novel NHC-coordinated ruthenium(II) arene complexes achieve synergistic efficacy as safe and effective anticancer therapeutics. <i>European Journal of Medicinal Chemistry</i> , 2020, 203, 112605.	5.5	38
43	Albumin nanoparticle encapsulation of potent cytotoxic therapeutics shows sustained drug release and alleviates cancer drug toxicity. <i>Chemical Communications</i> , 2017, 53, 2618-2621.	4.1	36
44	Biocompatible, chimeric peptide-condensed supramolecular nanoparticles for tumor cell-specific siRNA delivery and gene silencing. <i>Chemical Communications</i> , 2014, 50, 7806-7809.	4.1	34
45	A mussel-inspired self-repairing superhydrophobic coating with good anti-corrosion and photothermal properties. <i>Carbon</i> , 2022, 197, 27-39.	10.3	34
46	Chloride intracellular channel 1 participates in migration and invasion of hepatocellular carcinoma by targeting maspin. <i>Journal of Gastroenterology and Hepatology (Australia)</i> , 2015, 30, 208-216.	2.8	32
47	Photosensitizer-stabilized self-assembling nanoparticles potentiate chemo/photodynamic efficacy of patient-derived melanoma. <i>Journal of Controlled Release</i> , 2020, 328, 325-338.	9.9	31
48	Dimerization-induced self-assembly of a redox-responsive prodrug into nanoparticles for improved therapeutic index. <i>Acta Biomaterialia</i> , 2020, 113, 464-477.	8.3	31
49	Reprogramming axial ligands facilitates the self-assembly of a platinum(IV) prodrug: overcoming drug resistance and safer <i>in vivo</i> delivery of cisplatin. <i>Chemical Communications</i> , 2018, 54, 9167-9170.	4.1	29
50	Target-oriented delivery of self-assembled immunosuppressant cocktails prolongs allogeneic orthotopic liver transplant survival. <i>Journal of Controlled Release</i> , 2020, 328, 237-250.	9.9	29
51	Rational design of multifunctional small-molecule prodrugs for simultaneous suppression of cancer cell growth and metastasis <i>in vitro</i> and <i>in vivo</i> . <i>Chemical Communications</i> , 2016, 52, 5601-5604.	4.1	28
52	Combined inhibition of JAK1/2 and DNMT1 by newly identified small-molecule compounds synergistically suppresses the survival and proliferation of cervical cancer cells. <i>Cell Death and Disease</i> , 2020, 11, 724.	6.3	26
53	Self-assembling poly(ethylene glycol)-block-poly(lactide)-cabazitaxel conjugate nanoparticles for anticancer therapy with high efficacy and low <i>in vivo</i> toxicity. <i>International Journal of Pharmaceutics</i> , 2020, 574, 118879.	5.2	23
54	Niacin-ligated platinum(IV)-ruthenium(II) chimeric complexes synergistically suppress tumor metastasis and growth with potentially reduced toxicity <i>in vivo</i> . <i>Chemical Communications</i> , 2020, 56, 3069-3072.	4.1	22

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55	A facile supramolecular approach to fabricate multifunctional upconversion nanoparticles as a versatile platform for drug loading, in vivo delivery and tumor imaging. <i>Journal of Materials Chemistry B</i> , 2017, 5, 2425-2435.	5.8	21
56	Synthesis, Structure, Biological Evaluation, and Catalysis of Two Pyrazole-Functionalized NHC-Ru(II) Complexes. <i>European Journal of Inorganic Chemistry</i> , 2017, 2017, 616-622.	2.0	20
57	Novel fast-acting pyrazole/pyridine-functionalized N-heterocyclic carbene silver complexes assembled with nanoparticles show enhanced safety and efficacy as anticancer therapeutics. <i>Dalton Transactions</i> , 2020, 49, 2505-2516.	3.3	19
58	Ratiometric Fluorescent Biosensor for Real-Time and Label-Free Monitoring of Fine Saccharide Metabolic Pathways. <i>ChemBioChem</i> , 2008, 9, 25-28.	2.6	18
59	Facile synthesis of pyrroloindoles via a rhodium(II)-catalyzed annulation of 3-benzylidene-indolin-2-ones and α -imino carbenes. <i>Chemical Communications</i> , 2018, 54, 1595-1598.	4.1	18
60	Rhodium-Catalyzed Annulation of α -Imino Carbenes with α,β -Unsaturated Ketones: Construction of Multisubstituted 2,3-Dihydropyrrole/pyrrole Rings. <i>Journal of Organic Chemistry</i> , 2018, 83, 14518-14526.	3.2	16
61	Sitagliptin improves functional recovery via GLP-1R-induced anti-apoptosis and facilitation of axonal regeneration after spinal cord injury. <i>Journal of Cellular and Molecular Medicine</i> , 2020, 24, 8687-8702.	3.6	16
62	Supramolecular Engineering of Molecular Inhibitors in an Adaptive Cytotoxic Nanoparticle for Synergistic Cancer Therapy. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 1707-1720.	8.0	15
63	Orally Administrable Therapeutic Nanoparticles for the Treatment of Colorectal Cancer. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 670124.	4.1	14
64	Targeting peripheral immune organs with self-assembling prodrug nanoparticles ameliorates allogeneic heart transplant rejection. <i>American Journal of Transplantation</i> , 2021, 21, 3871-3882.	4.7	14
65	Targeting the Mitochondria with Pseudo-Stealthy Nanotaxanes to Impair Mitochondrial Biogenesis for Effective Cancer Treatment. <i>ACS Nano</i> , 2022, 16, 10242-10259.	14.6	14
66	Self-assembling a natural small molecular inhibitor that shows aggregation-induced emission and potentiates antitumor efficacy. <i>Nanoscale Horizons</i> , 2021, 6, 33-42.	8.0	12
67	Quantitative self-assembly of pure drug cocktails as injectable nanomedicines for synergistic drug delivery and cancer therapy. <i>Theranostics</i> , 2021, 11, 5713-5727.	10.0	12
68	Nanoparticle formulation of mycophenolate mofetil achieves enhanced efficacy against hepatocellular carcinoma by targeting tumour-associated fibroblast. <i>Journal of Cellular and Molecular Medicine</i> , 2021, 25, 3511-3523.	3.6	11
69	Combinatorial nanococktails via self-assembling lipid prodrugs for synergistically overcoming drug resistance and effective cancer therapy. <i>Biomaterials Research</i> , 2022, 26, 3.	6.9	10
70	Facile one-pot nanocatalysts encapsulation of palladium-NHC complexes for aqueous Suzuki-Miyaura couplings. <i>New Journal of Chemistry</i> , 2018, 42, 4624-4630.	2.8	9
71	Chemical Derivatization of the Anticancer Agent Cabazitaxel Using a Polyunsaturated Fatty Acid for Safe Drug Delivery In Vivo. <i>Journal of Biomedical Nanotechnology</i> , 2018, 14, 1853-1865.	1.1	9
72	Balancing the stability and drug activation in adaptive nanoparticles potentiates chemotherapy in multidrug-resistant cancer. <i>Theranostics</i> , 2021, 11, 4137-4154.	10.0	9

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73	A general prodrug nanohydrogel platform for reduction-triggered drug activation and treatment of taxane-resistant malignancies. <i>Acta Biomaterialia</i> , 2021, 130, 409-422.	8.3	9
74	Revival of a potent therapeutic maytansinoid agent using a strategy that combines covalent drug conjugation with sequential nanoparticle assembly. <i>International Journal of Pharmaceutics</i> , 2019, 556, 159-171.	5.2	8
75	<p>Salinomycin-Loaded Small-Molecule Nanoprodrugs Enhance Anticancer Activity in Hepatocellular Carcinoma</p>. <i>International Journal of Nanomedicine</i> , 2020, Volume 15, 6839-6854.	6.7	8
76	Repurposing of camptothecin: An esterase-activatable prodrug delivered by a self-emulsifying formulation that improves efficacy in colorectal cancer. <i>International Journal of Pharmaceutics</i> , 2021, 599, 120399.	5.2	8
77	Nanodelivery of a self-assembling prodrug with exceptionally high drug loading potentiates chemotherapy efficacy. <i>International Journal of Pharmaceutics</i> , 2021, 605, 120805.	5.2	6
78	Microfluidic assembly of small-molecule prodrug cocktail nanoparticles with high reproducibility for synergistic combination of cancer therapy. <i>International Journal of Pharmaceutics</i> , 2021, 608, 121088.	5.2	6
79	Supramolecular nanoparticles self-assembled from reduction-responsive cabazitaxel prodrugs for effective cancer therapy. <i>Chemical Communications</i> , 2021, 57, 2261-2264.	4.1	5
80	Synergistic nanoassemblies constructed from a STAT3 inhibitor and a cabazitaxel prodrug with enhanced cancer chemo-immunotherapy. <i>Materials Today Nano</i> , 2022, 17, 100155.	4.6	5
81	Akt inhibition improves the efficacy of cabazitaxel nanomedicine in preclinical taxane-resistant cancer models. <i>International Journal of Pharmaceutics</i> , 2021, 607, 121017.	5.2	4
82	Self-Emulsifying Hydrophobic Prodrug Conjugate That Enables the Oral Co-Administration and Programmable Release of Dual Antitumor Drugs. <i>Journal of Biomedical Nanotechnology</i> , 2017, 13, 1260-1271.	1.1	3
83	Multinuclear silver N^{C} -heterocyclic carbene complexes provoke potent anticancer activity via mitochondrial dysfunction and cell necrosis induction. <i>Applied Organometallic Chemistry</i> , 0, , .	3.5	3
84	Identification of a Novel Oral Small-Molecule JAK1/2 Inhibitor and Its Potent Synergistic Drug Combinations Against Cervical Cancer. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0