

Haihua Xiao

List of Publications by Year in descending order

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97
papers

7,325
citations

43973

48
h-index

56606

83
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102
all docs

102
docs citations

102
times ranked

8752
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced Cisplatin Chemotherapy by Iron Oxide Nanocarrier-Mediated Generation of Highly Toxic Reactive Oxygen Species. <i>Nano Letters</i> , 2017, 17, 928-937.	4.5	548
2	In Vivo Multimodality Imaging and Cancer Therapy by Near-Infrared Light-Triggered <i>trans</i> -Platinum Pro-Drug-Conjugated Upconversion Nanoparticles. <i>Journal of the American Chemical Society</i> , 2013, 135, 18920-18929.	6.6	508
3	Electrospun polymer biomaterials. <i>Progress in Polymer Science</i> , 2019, 90, 1-34.	11.8	472
4	The challenge and prospect of mRNA therapeutics landscape. <i>Biotechnology Advances</i> , 2020, 40, 107534.	6.0	221
5	RNAi therapeutic and its innovative biotechnological evolution. <i>Biotechnology Advances</i> , 2019, 37, 801-825.	6.0	196
6	A prodrug strategy to deliver cisplatin(IV) and paclitaxel in nanomicelles to improve efficacy and tolerance. <i>Biomaterials</i> , 2012, 33, 6507-6519.	5.7	182
7	Illuminating Platinum Transportation while Maximizing Therapeutic Efficacy by Gold Nanoclusters <i>via</i> Simultaneous Near-Infrared-I/II Imaging and Glutathione Scavenging. <i>ACS Nano</i> , 2020, 14, 13536-13547.	7.3	181
8	Biodegradable polymer cisplatin(IV) conjugate as a pro-drug of cisplatin(II). <i>Biomaterials</i> , 2011, 32, 7732-7739.	5.7	179
9	Light-activatable liposomes for repetitive on-demand drug release and immunopotential in hypoxic tumor therapy. <i>Biomaterials</i> , 2021, 265, 120456.	5.7	146
10	Recent progress in polymer-based platinum drug delivery systems. <i>Progress in Polymer Science</i> , 2018, 87, 70-106.	11.8	144
11	Dual Drug Backboned Shattering Polymeric Theranostic Nanomedicine for Synergistic Eradication of Patient-Derived Lung Cancer. <i>Advanced Materials</i> , 2018, 30, 1706220.	11.1	142
12	Recent advances in delivery of photosensitive metal-based drugs. <i>Coordination Chemistry Reviews</i> , 2019, 387, 154-179.	9.5	136
13	A Nanobody-Conjugated DNA Nanoplatfor for Targeted Platinum Drug Delivery. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 14224-14228.	7.2	135
14	Function-driven engineering of 1D carbon nanotubes and 0D carbon dots: mechanism, properties and applications. <i>Nanoscale</i> , 2019, 11, 1475-1504.	2.8	134
15	Sandwich-Like Fibers/Sponge Composite Combining Chemotherapy and Hemostasis for Efficient Postoperative Prevention of Tumor Recurrence and Metastasis. <i>Advanced Materials</i> , 2018, 30, e1803217.	11.1	129
16	Rational Design of Multifunctional Upconversion Nanocrystals/Polymer Nanocomposites for Cisplatin (IV) Delivery and Biomedical Imaging. <i>Advanced Materials</i> , 2013, 25, 4898-4905.	11.1	127
17	Receptor and Microenvironment Dual-Recognizable Nanogel for Targeted Chemotherapy of Highly Metastatic Malignancy. <i>Nano Letters</i> , 2017, 17, 4526-4533.	4.5	127
18	Cancer Cell Membrane-Coated Nanoparticles for Personalized Therapy in Patient-Derived Xenograft Models. <i>Advanced Functional Materials</i> , 2019, 29, 1905671.	7.8	125

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19	Inorganic nanocarriers for platinum drug delivery. <i>Materials Today</i> , 2015, 18, 554-564.	8.3	122
20	Secreted Protein Acidic and Rich in Cysteine Mediated Biomimetic Delivery of Methotrexate by Albumin-Based Nanomedicines for Rheumatoid Arthritis Therapy. <i>ACS Nano</i> , 2019, 13, 5036-5048.	7.3	122
21	Tailoring Platinum(IV) Amphiphiles for Self-Targeting All-in-One Assemblies as Precise Multimodal Theranostic Nanomedicine. <i>ACS Nano</i> , 2018, 12, 7272-7281.	7.3	114
22	Co-delivery of daunomycin and oxaliplatin by biodegradable polymers for safer and more efficacious combination therapy. <i>Journal of Controlled Release</i> , 2012, 163, 304-314.	4.8	110
23	Breaking the Intracellular Redox Balance with Diselenium Nanoparticles for Maximizing Chemotherapy Efficacy on Patient-Derived Xenograft Models. <i>ACS Nano</i> , 2020, 14, 16984-16996.	7.3	105
24	Iodo-BODIPY: a visible-light-driven, highly efficient and photostable metal-free organic photocatalyst. <i>RSC Advances</i> , 2013, 3, 13417.	1.7	99
25	Photosensitive Pt(IV)-azide prodrug-loaded nanoparticles exhibit controlled drug release and enhanced efficacy in vivo. <i>Journal of Controlled Release</i> , 2014, 173, 11-17.	4.8	96
26	Nanoparticle-mediated convection-enhanced delivery of a DNA intercalator to gliomas circumvents temozolomide resistance. <i>Nature Biomedical Engineering</i> , 2021, 5, 1048-1058.	11.6	96
27	Photo-Reduction with NIR Light of Nucleus-Targeting Pt ^{IV} Nanoparticles for Combined Tumor-Targeted Chemotherapy and Photodynamic Immunotherapy. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	93
28	Biodegradable Polymer with Effective Near-Infrared Absorption as a Photothermal Agent for Deep Tumor Therapy. <i>Advanced Materials</i> , 2022, 34, e2105976.	11.1	92
29	Biodegradable copolymers with identical cationic segments and their performance in siRNA delivery. <i>Journal of Controlled Release</i> , 2012, 159, 251-260.	4.8	85
30	Biomedical polymers: synthesis, properties, and applications. <i>Science China Chemistry</i> , 2022, 65, 1010-1075.	4.2	85
31	A Near-Infrared-II Polymer with Tandem Fluorophores Demonstrates Superior Biodegradability for Simultaneous Drug Tracking and Treatment Efficacy Feedback. <i>ACS Nano</i> , 2021, 15, 5428-5438.	7.3	79
32	A Systematic Strategy of Combinational Blow for Overcoming Cascade Drug Resistance via NIR-Light-Triggered Hyperthermia. <i>Advanced Materials</i> , 2021, 33, e2100599.	11.1	78
33	The use of polymeric platinum(IV) prodrugs to deliver multinuclear platinum(II) drugs with reduced systemic toxicity and enhanced antitumor efficacy. <i>Biomaterials</i> , 2012, 33, 8657-8669.	5.7	77
34	Synthesis of mesoporous silica nanoparticle-oxaliplatin conjugates for improved anticancer drug delivery. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 117, 75-81.	2.5	75
35	Maximizing Synergistic Activity When Combining RNAi and Platinum-Based Anticancer Agents. <i>Journal of the American Chemical Society</i> , 2017, 139, 3033-3044.	6.6	74
36	Nanoparticle conjugates of a highly potent toxin enhance safety and circumvent platinum resistance in ovarian cancer. <i>Nature Communications</i> , 2017, 8, 2166.	5.8	71

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37	A dual-targeting hybrid platinum(iv) prodrug for enhancing efficacy. <i>Chemical Communications</i> , 2012, 48, 10730.	2.2	70
38	A Targeted and Stable Polymeric Nanoformulation Enhances Systemic Delivery of mRNA to Tumors. <i>Molecular Therapy</i> , 2017, 25, 92-101.	3.7	70
39	Near-Infrared Light Irradiation Induced Mild Hyperthermia Enhances Glutathione Depletion and DNA Interstrand Cross-Link Formation for Efficient Chemotherapy. <i>ACS Nano</i> , 2020, 14, 14831-14845.	7.3	67
40	Microneedles loaded with anti-PD-1 cisplatin nanoparticles for synergistic cancer immuno-chemotherapy. <i>Nanoscale</i> , 2020, 12, 18885-18898.	2.8	67
41	Fluorinated Acid-Labile Branched Hydroxyl-Rich Nanosystems for Flexible and Robust Delivery of Plasmids. <i>Small</i> , 2018, 14, e1803061.	5.2	61
42	Core Role of Hydrophobic Core of Polymeric Nanomicelle in Endosomal Escape of siRNA. <i>Nano Letters</i> , 2021, 21, 3680-3689.	4.5	58
43	Identification of SARS-CoV-2-against aptamer with high neutralization activity by blocking the RBD domain of spike protein 1. <i>Signal Transduction and Targeted Therapy</i> , 2021, 6, 227.	7.1	56
44	Biosafety materials: an emerging new research direction of materials science from the COVID-19 outbreak. <i>Materials Chemistry Frontiers</i> , 2020, 4, 1930-1953.	3.2	55
45	NIR-light triggered dual-cascade targeting core-shell nanoparticles enhanced photodynamic therapy and immunotherapy. <i>Nano Today</i> , 2021, 41, 101288.	6.2	55
46	Delivering a photosensitive transplatin prodrug to overcome cisplatin drug resistance. <i>Chemical Communications</i> , 2015, 51, 11493-11495.	2.2	53
47	Evaluation of Polymer Nanoformulations in Hepatoma Therapy by Established Rodent Models. <i>Theranostics</i> , 2019, 9, 1426-1452.	4.6	53
48	Exploiting the acquired vulnerability of cisplatin-resistant tumors with a hypoxia-amplifying DNA repair-inhibiting (HYDRI) nanomedicine. <i>Science Advances</i> , 2021, 7, .	4.7	50
49	A Polymer (Tandem Drugs) Conjugate for Enhanced Cancer Treatment. <i>Advanced Healthcare Materials</i> , 2013, 2, 822-827.	3.9	49
50	Efficient hepatic delivery and protein expression enabled by optimized mRNA and ionizable lipid nanoparticle. <i>Bioactive Materials</i> , 2020, 5, 1053-1061.	8.6	49
51	Degradable Pseudo Conjugated Polymer Nanoparticles with NIR Photothermal Effect and Cationic Quaternary Phosphonium Structural Bacteriostasis for Anti-infection Therapy. <i>Advanced Science</i> , 2022, 9, e2200732.	5.6	46
52	Nanoparticle-based drug delivery systems with platinum drugs for overcoming cancer drug resistance. <i>Journal of Materials Chemistry B</i> , 2021, 9, 5173-5194.	2.9	42
53	MnFe ₂ O ₄ -decorated large-pore mesoporous silica-coated upconversion nanoparticles for near-infrared light-induced and O ₂ self-sufficient photodynamic therapy. <i>Nanoscale</i> , 2019, 11, 14654-14667.	2.8	41
54	Micellar nanoparticle formation via electrostatic interactions for delivering multinuclear platinum(ii) drugs. <i>Chemical Communications</i> , 2013, 49, 4809.	2.2	40

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55	Layer-by-Layer Assembled Polypeptide Capsules for Platinum-Based Pro-Drug Delivery. <i>Bioconjugate Chemistry</i> , 2012, 23, 2335-2343.	1.8	36
56	Multifunctional Pt(IV) pro-drug and its micellar platform: to kill two birds with one stone. <i>Journal of Materials Chemistry B</i> , 2013, 1, 762-772.	2.9	36
57	Phenanthriplatin(IV) conjugated multifunctional up-converting nanoparticles for drug delivery and biomedical imaging. <i>Journal of Materials Chemistry B</i> , 2018, 6, 5059-5068.	2.9	36
58	Bactericidal and antifouling electrospun PVA nanofibers modified with a quaternary ammonium salt and zwitterionic sulfopropylbetaine. <i>Materials Science and Engineering C</i> , 2020, 111, 110855.	3.8	36
59	A complex of cyclohexane-1,2-diaminoplatinum with an amphiphilic biodegradable polymer with pendant carboxyl groups. <i>Acta Biomaterialia</i> , 2012, 8, 1859-1868.	4.1	34
60	Nanoparticle delivery of photosensitive Pt(IV) drugs for circumventing cisplatin cellular pathway and on-demand drug release. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 123, 734-741.	2.5	32
61	Biological Characterization of Folate-Decorated Biodegradable Polymer-Platinum(II) Complex Micelles. <i>Molecular Pharmaceutics</i> , 2012, 9, 3200-3208.	2.3	31
62	Layer-by-layer nanoparticles for novel delivery of cisplatin and PARP inhibitors for platinum-based drug resistance therapy in ovarian cancer. <i>Bioengineering and Translational Medicine</i> , 2019, 4, e10131.	3.9	30
63	A cross-linked polymeric micellar delivery system for cisplatin(IV) complex. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2013, 83, 63-75.	2.0	29
64	A negatively charged Pt(IV) prodrug for electrostatic complexation with polymers to overcome cisplatin resistance. <i>Journal of Materials Chemistry B</i> , 2019, 7, 3346-3350.	2.9	27
65	Design and delivery of camplatin to overcome cisplatin drug resistance. <i>Journal of Materials Chemistry B</i> , 2015, 3, 176-179.	2.9	26
66	Carboplatin prodrug conjugated Fe ₃ O ₄ nanoparticles for magnetically targeted drug delivery in ovarian cancer cells. <i>Journal of Materials Chemistry B</i> , 2019, 7, 433-442.	2.9	25
67	Enhancing the chemotherapeutic efficacy of platinum prodrug nanoparticles and inhibiting cancer metastasis by targeting iron homeostasis. <i>Nanoscale Horizons</i> , 2020, 5, 999-1015.	4.1	25
68	Light triggered release of a triple action porphyrin-cisplatin conjugate evokes stronger immunogenic cell death for chemotherapy, photodynamic therapy and cancer immunotherapy. <i>Journal of Nanobiotechnology</i> , 2022, 20, .	4.2	24
69	A mitochondria targeting artesunate prodrug-loaded nanoparticle exerting anticancer activity via iron-mediated generation of the reactive oxygen species. <i>Chemical Communications</i> , 2019, 55, 4781-4784.	2.2	23
70	Lactose targeting oxaliplatin prodrug loaded micelles for more effective chemotherapy of hepatocellular carcinoma. <i>Journal of Materials Chemistry B</i> , 2014, 2, 2097.	2.9	21
71	Application of microwave-assisted click chemistry in the preparation of functionalized copolymers for drug conjugation. <i>Journal of Applied Polymer Science</i> , 2013, 127, 3365-3373.	1.3	20
72	A hybrid platinum drug dichloroacetate-platinum(II) overcomes cisplatin drug resistance through dual organelle targeting. <i>Anti-Cancer Drugs</i> , 2015, 26, 698-705.	0.7	20

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73	A spermine-conjugated lipophilic Pt($\text{Pt}(\text{NH}_2)_4$) prodrug designed to eliminate cancer stem cells in ovarian cancer. <i>Chemical Communications</i> , 2019, 55, 6106-6109.	2.2	20
74	Guanidinated amphiphilic cationic copolymer with enhanced gene delivery efficiency. <i>Journal of Materials Chemistry</i> , 2012, 22, 18915.	6.7	19
75	A biodegradable polymer platform for co-delivery of clinically relevant oxaliplatin and gemcitabine. <i>Journal of Materials Chemistry B</i> , 2014, 2, 6560-6570.	2.9	18
76	Biodegradable polymer-platinum drug conjugates to overcome platinum drug resistance. <i>RSC Advances</i> , 2015, 5, 83343-83349.	1.7	18
77	Biosafety chemistry and biosafety materials: A new perspective to solve biosafety problems. <i>Biosafety and Health</i> , 2022, 4, 15-22.	1.2	18
78	Nanoparticle mediated delivery of a GST inhibitor ethacrynic acid for sensitizing platinum based chemotherapy. <i>RSC Advances</i> , 2014, 4, 61124-61132.	1.7	17
79	Boosting ferroptosis via abplatin(IV) for treatment of platinum-resistant recurrent ovarian cancer. <i>Nano Today</i> , 2022, 44, 101459.	6.2	17
80	Targeting Bone Tumor and Subcellular Endoplasmic Reticulum via Near Infrared II Fluorescent Polymer for Photodynamic Immunotherapy to Break the Step-Reduction Delivery Dilemma. <i>Advanced Science</i> , 2022, 9, .	5.6	17
81	Delivery of Active DACH-Pt Anticancer Species by Biodegradable Amphiphilic Polymers Using Thiol-ene Radical Addition. <i>Macromolecular Bioscience</i> , 2012, 12, 367-373.	2.1	16
82	Co-delivery of all-trans-retinoic-acid and cisplatin(IV) prodrug based on polymer-drug conjugates for enhanced efficacy and safety. <i>Journal of Materials Chemistry</i> , 2012, 22, 25453.	6.7	15
83	Enhanced Chemodynamic Therapy and Chemotherapy via Delivery of a Dual Threat ArterPt and Iodo-click Reaction Mediated Glutathione Consumption. <i>Small Methods</i> , 2021, 5, e2101047.	4.6	15
84	pH/redox sensitive nanoparticles with platinum(IV) prodrugs and doxorubicin enhance chemotherapy in ovarian cancer. <i>RSC Advances</i> , 2019, 9, 20513-20517.	1.7	14
85	Targeting Cancer Metabolism Plasticity with JX06 Nanoparticles via Inhibiting PDK1 Combined with Metformin for Endometrial Cancer Patients with Diabetes. <i>Advanced Science</i> , 2022, 9, e2104472.	5.6	14
86	Polymeric dinuclear platinum(II) complex micelles for enhanced antitumor activity. <i>Journal of Materials Chemistry B</i> , 2013, 1, 744.	2.9	12
87	Zinc-based catalyst for the ring-opening polymerization of cyclic esters. <i>Journal of Applied Polymer Science</i> , 2011, 121, 2378-2385.	1.3	10
88	Engineering liposomal nanoparticles of cholesterol-tethered amphiphilic Pt($\text{Pt}(\text{NH}_2)_4$) prodrugs with prolonged circulation time in blood. <i>Dalton Transactions</i> , 2020, 49, 8107-8113.	1.6	10
89	Biosafety materials: Ushering in a new era of infectious disease diagnosis and treatment with the CRISPR/Cas system. <i>Biosafety and Health</i> , 2022, 4, 70-78.	1.2	10
90	Design of zwitterionic polyester based nano-carriers for platinum(IV) prodrug delivery. <i>Polymer Chemistry</i> , 2019, 10, 5353-5363.	1.9	9

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91	Abplatin(IV) inhibited tumor growth on a patient derived cancer model of hepatocellular carcinoma and its comparative multi-omics study with cisplatin. Journal of Nanobiotechnology, 2022, 20, .	4.2	9
92	Engineering CpGâ€ASOâ€Ptâ€Loaded Macrophages (CAP@M) for Synergistic Chemoâ€Geneâ€Immunoâ€Therapy. Advanced Healthcare Materials, 2022, 11, .	3.9	8
93	Polymeric Nanostructure Compiled with Multifunctional Components To Exert Tumor-Targeted Delivery of Antiangiogenic Gene for Tumor Growth Suppression. ACS Applied Materials & Interfaces, 2016, 8, 24404-24414.	4.0	7
94	UCNP@BSA@Ru nanoparticles with tumor-specific and NIR-triggered efficient PACT activity <i>in vivo</i>. Dalton Transactions, 2021, 50, 7715-7724.	1.6	7
95	Photoâ€Reduktion mit NIRâ€Licht von Zellkern akkumulierenden Pt ^{IV} â€Nanopartikeln fÃ¼r eine kombinierte Tumor ausgerichtete Chemotherapie und Photodynamische Immuntherapie. Angewandte Chemie, 0, , .	1.6	4
96	New polymerâ€platinum (II) antitumor conjugates. Journal of Controlled Release, 2011, 152, e103-e104.	4.8	3
97	Restoration of the Immunogenicity of Tumor Cells for Enhanced Cancer Therapy via Nanoparticleâ€Mediated Copper Chaperone Inhibition. Angewandte Chemie, 0, , .	1.6	2