

# Xiangsheng Liu

## List of Publications by Year in descending order

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76  
papers

5,397  
citations

81900

39  
h-index

82547

72  
g-index

77  
all docs

77  
docs citations

77  
times ranked

8662  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mussel-Inspired Polydopamine: A Biocompatible and Ultrastable Coating for Nanoparticles <i>in Vivo</i> . ACS Nano, 2013, 7, 9384-9395.	14.6	549
2	Use of a Lipid-Coated Mesoporous Silica Nanoparticle Platform for Synergistic Gemcitabine and Paclitaxel Delivery to Human Pancreatic Cancer in Mice. ACS Nano, 2015, 9, 3540-3557.	14.6	367
3	Nano-enabled pancreas cancer immunotherapy using immunogenic cell death and reversing immunosuppression. Nature Communications, 2017, 8, 1811.	12.8	360
4	Enhanced Retention and Cellular Uptake of Nanoparticles in Tumors by Controlling Their Aggregation Behavior. ACS Nano, 2013, 7, 6244-6257.	14.6	309
5	Irinotecan Delivery by Lipid-Coated Mesoporous Silica Nanoparticles Shows Improved Efficacy and Safety over Liposomes for Pancreatic Cancer. ACS Nano, 2016, 10, 2702-2715.	14.6	215
6	Breast Cancer Chemo-immunotherapy through Liposomal Delivery of an Immunogenic Cell Death Stimulus Plus Interference in the IDO-1 Pathway. ACS Nano, 2018, 12, 11041-11061.	14.6	200
7	Surface and Size Effects on Cell Interaction of Gold Nanoparticles with Both Phagocytic and Nonphagocytic Cells. Langmuir, 2013, 29, 9138-9148.	3.5	183
8	Tumor-penetrating peptide enhances transcytosis of silicasome-based chemotherapy for pancreatic cancer. Journal of Clinical Investigation, 2017, 127, 2007-2018.	8.2	168
9	Toxicological Profiling of Metal Oxide Nanoparticles in Liver Context Reveals Pyroptosis in Kupffer Cells and Macrophages <i>versus</i> Apoptosis in Hepatocytes. ACS Nano, 2018, 12, 3836-3852.	14.6	141
10	Photo-responsive, biocompatible polymeric micelles self-assembled from hyperbranched polyphosphate-based polymers. Polymer Chemistry, 2011, 2, 1389.	3.9	112
11	Fast and long-acting antibacterial properties of chitosan-Ag/polyvinylpyrrolidone nanocomposite films. Carbohydrate Polymers, 2012, 90, 8-15.	10.2	105
12	Transcytosis - An effective targeting strategy that is complementary to "EPR effect" for pancreatic cancer nano drug delivery. Theranostics, 2019, 9, 8018-8025.	10.0	103
13	Multidentate Polyethylene Glycol Modified Gold Nanorods for <i>in Vivo</i> Near-Infrared Photothermal Cancer Therapy. ACS Applied Materials & Interfaces, 2014, 6, 5657-5668.	8.0	94
14	Liposomal Delivery of Mitoxantrone and a Cholesteryl Indoximod Prodrug Provides Effective Chemo-immunotherapy in Multiple Solid Tumors. ACS Nano, 2020, 14, 13343-13366.	14.6	91
15	Improved Efficacy and Reduced Toxicity Using a Custom-Designed Irinotecan-Delivering Silicasome for Orthotopic Colon Cancer. ACS Nano, 2019, 13, 38-53.	14.6	87
16	Multidentate zwitterionic chitosan oligosaccharide modified gold nanoparticles: stability, biocompatibility and cell interactions. Nanoscale, 2013, 5, 3982.	5.6	83
17	Fabrication of core or shell reversibly photo cross-linked micelles and nanogels from double responsive water-soluble block copolymers. Polymer, 2010, 51, 1311-1319.	3.8	82
18	Zwitterionic polycarboxybetaine coating functionalized with REDV peptide to improve selectivity for endothelial cells. Journal of Biomedical Materials Research - Part A, 2012, 100A, 1387-1397.	4.0	81

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19	Biocompatible vesicles based on PEO-b-PMPC/β-cyclodextrin inclusion complexes for drug delivery. <i>Soft Matter</i> , 2011, 7, 662-669.	2.7	79
20	Mixed Charged Zwitterionic Self-Assembled Monolayers as a Facile Way to Stabilize Large Gold Nanoparticles. <i>Langmuir</i> , 2011, 27, 5242-5251.	3.5	78
21	Use of Polymeric Nanoparticle Platform Targeting the Liver To Induce Treg-Mediated Antigen-Specific Immune Tolerance in a Pulmonary Allergen Sensitization Model. <i>ACS Nano</i> , 2019, 13, 4778-4794.	14.6	78
22	Mixed-Charge Nanoparticles for Long Circulation, Low Reticuloendothelial System Clearance, and High Tumor Accumulation. <i>Advanced Healthcare Materials</i> , 2014, 3, 1439-1447.	7.6	77
23	Photo-responsive supramolecular self-assembly and disassembly of an azobenzene-containing block copolymer. <i>Soft Matter</i> , 2010, 6, 5589.	2.7	75
24	Bioinspired phospholipid polymer prodrug as a pH-responsive drug delivery system for cancer therapy. <i>Polymer Chemistry</i> , 2013, 4, 2004.	3.9	63
25	Doxorubicin conjugated phospholipid prodrugs as smart nanomedicine platforms for cancer therapy. <i>Journal of Materials Chemistry B</i> , 2015, 3, 3297-3305.	5.8	60
26	Combination Chemotherapy for Pancreatic Cancer Using the Immunogenic Effects of an Irinotecan Silicasome Nanocarrier Plus Anti-PD-1. <i>Advanced Science</i> , 2021, 8, 2002147.	11.2	59
27	Minimizing nonspecific phagocytic uptake of biocompatible gold nanoparticles with mixed charged zwitterionic surface modification. <i>Journal of Materials Chemistry</i> , 2012, 22, 1916-1927.	6.7	58
28	Repetitive Dosing of Fumed Silica Leads to Profibrogenic Effects through Unique Structure-Activity Relationships and Biopersistence in the Lung. <i>ACS Nano</i> , 2016, 10, 8054-8066.	14.6	58
29	Biomimetic pseudopolyrotaxane prodrug micelles with high drug content for intracellular drug delivery. <i>Chemical Communications</i> , 2013, 49, 7123.	4.1	57
30	Biocompatible and biodegradable polymersomes for pH-triggered drug release. <i>Soft Matter</i> , 2011, 7, 6629.	2.7	55
31	Biocompatible Micelles Based on Comblike PEG Derivates: Formation, Characterization, and Photo-responsiveness. <i>Macromolecular Rapid Communications</i> , 2011, 32, 1077-1081.	3.9	55
32	pH-responsive and biodegradable polymeric micelles based on poly( <sup>2</sup> -amino) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 222 Td (ester)-graft-p	3.9	50
33	“Mixed-charge Self-Assembled Monolayers” as A Facile Method to Design pH-induced Aggregation of Large Gold Nanoparticles for Near-Infrared Photothermal Cancer Therapy. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 18930-18937.	8.0	49
34	The Crystallinity and Aspect Ratio of Cellulose Nanomaterials Determine Their Pro-inflammatory and Immune Adjuvant Effects In Vitro and In Vivo. <i>Small</i> , 2019, 15, e1901642.	10.0	48
35	Surface Tailoring of Nanoparticles via Mixed-Charge Monolayers and Their Biomedical Applications. <i>Small</i> , 2014, 10, 4230-4242.	10.0	47
36	Lateral size of graphene oxide determines differential cellular uptake and cell death pathways in Kupffer cells, LSECs, and hepatocytes. <i>Nano Today</i> , 2021, 37, 101061.	11.9	46

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37	Use of ratiometrically designed nanocarrier targeting CDK4/6 and autophagy pathways for effective pancreatic cancer treatment. <i>Nature Communications</i> , 2020, 11, 4249.	12.8	44
38	Targeted drug delivery using iRGD peptide for solid cancer treatment. <i>Molecular Systems Design and Engineering</i> , 2017, 2, 370-379.	3.4	42
39	Safety Considerations of Cancer Nanomedicine—A Key Step toward Translation. <i>Small</i> , 2020, 16, e2000673.	10.0	41
40	Mechanistic Differences in Cell Death Responses to Metal-Based Engineered Nanomaterials in Kupffer Cells and Hepatocytes. <i>Small</i> , 2020, 16, e2000528.	10.0	41
41	Construction of photo-responsive micelles from azobenzene-modified hyperbranched polyphosphates and study of their reversible self-assembly and disassembly behaviours. <i>New Journal of Chemistry</i> , 2012, 36, 694-701.	2.8	40
42	Development of self-assembled multi-arm polyrotaxanes nanocarriers for systemic plasmid delivery in vivo. <i>Biomaterials</i> , 2019, 192, 416-428.	11.4	36
43	Antigen- and Epitope-Delivering Nanoparticles Targeting Liver Induce Comparable Immunotolerance in Allergic Airway Disease and Anaphylaxis as Nanoparticle-Delivering Pharmaceuticals. <i>ACS Nano</i> , 2021, 15, 1608-1626.	14.6	36
44	Construction of Redox-Active Multilayer Film for Electrochemically Controlled Release. <i>Langmuir</i> , 2013, 29, 11163-11168.	3.5	35
45	Development of Facile and Versatile Platinum Drug Delivering Silicasome Nanocarriers for Efficient Pancreatic Cancer Chemo-immunotherapy. <i>Small</i> , 2021, 17, e2005993.	10.0	35
46	pH and hydrogen peroxide dual responsive supramolecular prodrug system for controlled release of bioactive molecules. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 121, 189-195.	5.0	34
47	Consideration for the scale-up manufacture of nanotherapeutics—A critical step for technology transfer. <i>View</i> , 2021, 2, 20200190.	5.3	34
48	The effect of ligand composition on the in vivo fate of multidentate poly(ethylene glycol) modified gold nanoparticles. <i>Biomaterials</i> , 2013, 34, 8370-8381.	11.4	33
49	Multifunctional Lipid Bilayer Nanocarriers for Cancer Immunotherapy in Heterogeneous Tumor Microenvironments, Combining Immunogenic Cell Death Stimuli with Immune Modulatory Drugs. <i>ACS Nano</i> , 2022, 16, 5184-5232.	14.6	32
50	Immune checkpoint inhibition in syngeneic mouse cancer models by a silicasome nanocarrier delivering a GSK3 inhibitor. <i>Biomaterials</i> , 2021, 269, 120635.	11.4	31
51	Nanoparticle Delivery Systems for DNA/RNA and their Potential Applications in Nanomedicine. <i>Current Topics in Medicinal Chemistry</i> , 2019, 19, 2507-2523.	2.1	31
52	Injectable Biodegradable Polymeric Complex for Glucose-Responsive Insulin Delivery. <i>ACS Nano</i> , 2021, 15, 4294-4304.	14.6	29
53	Biomimetic Polymersomes as Carriers for Hydrophilic Quantum Dots. <i>Langmuir</i> , 2012, 28, 557-562.	3.5	28
54	Self-assembly of Near-monodisperse Redox-Sensitive Micelles from Cholesterol-conjugated Biomimetic Copolymers. <i>Macromolecular Bioscience</i> , 2013, 13, 1084-1091.	4.1	27

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55	Functional 2-methylene-1,3-dioxepane terpolymer: a versatile platform to construct biodegradable polymeric prodrugs for intracellular drug delivery. <i>Polymer Chemistry</i> , 2014, 5, 4061-4068.	3.9	27
56	Nanocellulose Length Determines the Differential Cytotoxic Effects and Inflammatory Responses in Macrophages and Hepatocytes. <i>Small</i> , 2021, 17, e2102545.	10.0	27
57	Disulfide-Crosslinked Biomimetic Micelles: Formation, Thiol Reactivity and Cytotoxicity Behavior. <i>Macromolecular Chemistry and Physics</i> , 2010, 211, 2292-2300.	2.2	25
58	Small and Stable Phosphorylcholine Zwitterionic Quantum Dots for Weak Nonspecific Phagocytosis and Effective Tat Peptide Functionalization. <i>Advanced Healthcare Materials</i> , 2013, 2, 352-360.	7.6	25
59	Chiral Packing of Cholesteryl Group as an Effective Strategy To Get Low Molecular Weight Supramolecular Hydrogels in the Absence of Intermolecular Hydrogen Bond. <i>Macromolecules</i> , 2013, 46, 4235-4246.	4.8	24
60	Biocompatible and biodegradable supramolecular assemblies formed with cucurbit[8]uril as a smart platform for reduction-triggered release of doxorubicin. <i>Polymer Chemistry</i> , 2014, 5, 1843.	3.9	23
61	A Hepatocyte-Mimicking Antidote for Alcohol Intoxication. <i>Advanced Materials</i> , 2018, 30, e1707443.	21.0	22
62	Zwitterionic phosphorylcholine-protected water-soluble Ag nanoparticles. <i>Science in China Series B: Chemistry</i> , 2009, 52, 64-68.	0.8	19
63	One-Step Preparation of Reduction-Responsive Biodegradable Polymers as Efficient Intracellular Drug Delivery Platforms. <i>Macromolecular Chemistry and Physics</i> , 2014, 215, 1848-1854.	2.2	19
64	Pro-Inflammatory and Pro-Fibrogenic Effects of Ionic and Particulate Arsenide and Indium-Containing Semiconductor Materials in the Murine Lung. <i>ACS Nano</i> , 2017, 11, 1869-1883.	14.6	19
65	Fast and selective cancer cell uptake of therapeutic gold nanorods by surface modifications with phosphorylcholine and Tat. <i>Journal of Materials Chemistry</i> , 2012, 22, 13969.	6.7	17
66	Use of Nanoformulation to Target Macrophages for Disease Treatment. <i>Advanced Functional Materials</i> , 2021, 31, 2104487.	14.9	17
67	Dissolution of 2D Molybdenum Disulfide Generates Differential Toxicity among Liver Cell Types Compared to Non-toxic 2D Boron Nitride Effects. <i>Small</i> , 2021, 17, e2101084.	10.0	15
68	Prodrug nanoparticles rationally integrating stroma modification and chemotherapy to treat metastatic pancreatic cancer. <i>Biomaterials</i> , 2021, 278, 121176.	11.4	14
69	Development of a spatiotemporal method to control molecular function by using silica-based photodegradable nanoparticles. <i>Journal of Materials Chemistry B</i> , 2014, 2, 4153-4158.	5.8	11
70	Spraying layer-by-layer assembly film based on the coordination bond of bioinspired polydopamine-FeIII. <i>Thin Solid Films</i> , 2016, 600, 76-82.	1.8	10
71	Polyrotaxane Nanocarriers Can Deliver CRISPR/Cas9 Plasmid to Dystrophic Muscle Cells to Successfully Edit the DMD Gene. <i>Advanced Therapeutics</i> , 2019, 2, 1900061.	3.2	10
72	Major effect of transcytosis on nano drug delivery to pancreatic cancer. <i>Molecular and Cellular Oncology</i> , 2017, 4, e1335273.	0.7	8

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73	Ratiometric co-delivery of hydroxychloroquine and calculated low-dose paclitaxel efficiently suppresses tumor growth in hepatocellular carcinoma mouse models in vivo. <i>Nano Today</i> , 2022, 44, 101446.	11.9	5
74	Silicasome Nanocarriers: Development of Facile and Versatile Platinum Drug Delivering Silicasome Nanocarriers for Efficient Pancreatic Cancer Chemo-immunotherapy ( <i>Small</i> 14/2021). <i>Small</i> , 2021, 17, 2170065.	10.0	4
75	Engineering of CoSe <sub>2</sub> Nanosheets via Vacancy Manipulation for Efficient Cancer Therapy. <i>ACS Applied Bio Materials</i> , 2020, 3, 7800-7809.	4.6	4
76	Immunological effects of nano-enabled hyperthermia for solid tumors: opportunity and challenge. <i>Frontiers of Chemical Science and Engineering</i> , 0, , 1.	4.4	0