Jinming Gao

List of Publications by Year in Descending Order

112 papers	14,144 citations	51 h-index	118 g-index
121 ext. papers	15,413 ext. citations	10.6 avg, IF	6.12 L-index

#	Paper	IF	Citations
112	Quantitative phosphoproteomic analyses identify STK11IP as a lysosome-specific substrate of mTORC1 that regulates lysosomal acidification.. *Nature Communications*, **2022**, 13, 1760	17.4	0
111	Intratumoral administration of STING-activating nanovaccine enhances T cell immunotherapy **2022**, 10, e003960		0
110	Polyvalent design in the cGAS-STING pathway.. *Seminars in Immunology*, **2021**, 56, 101580	10.7	2
109	A Standardized Framework for Fluorescence-Guided Margin Assessment for Head and Neck Cancer Using a Tumor Acidosis Sensitive Optical Imaging Agent. *Molecular Imaging and Biology*, **2021**, 23, 809-817	3.8	1
108	Tumor-Targeted Inhibition of Monocarboxylate Transporter 1 Improves T-Cell Immunotherapy of Solid Tumors. *Advanced Healthcare Materials*, **2021**, 10, e2000549	10.1	14
107	Antigen folding improves loading efficiency and antitumor efficacy of PC7A nanoparticle vaccine. *Journal of Controlled Release*, **2021**, 329, 353-360	11.7	6
106	Factors Associated with Lymph Node Count in Mucosal Squamous Cell Carcinoma Neck Dissection. *Laryngoscope*, **2021**, 131, 1516-1521	3.6	0
105	Prolonged activation of innate immune pathways by a polyvalent STING agonist. *Nature Biomedical Engineering*, **2021**, 5, 455-466	19	49
104	Exploiting metabolic acidosis in solid cancers using a tumor-agnostic pH-activatable nanoprobe for fluorescence-guided surgery. *Nature Communications*, **2020**, 11, 3257	17.4	37
103	Detection of Lymph Node Metastases by Ultra-pH-Sensitive Polymeric Nanoparticles. *Theranostics*, **2020**, 10, 3340-3350	12.1	12
102	Nano-Immune-Engineering Approaches to Advance Cancer Immunotherapy: Lessons from Ultra-pH-Sensitive Nanoparticles. *Accounts of Chemical Research*, **2020**, 53, 2546-2557	24.3	15
101	Polycarbonate-based ultra-pH sensitive nanoparticles improve therapeutic window. *Nature Communications*, **2020**, 11, 5828	17.4	20
100	P857 ONM-500 a novel STING-activating therapeutic nanovaccine platform for cancer immunotherapy **2020**, 8, A7-A8		
99	Exploiting nanoscale cooperativity for precision medicine. *Advanced Drug Delivery Reviews*, **2020**, 158, 63-72	18.5	8
98	PET imaging of occult tumours by temporal integration of tumour-acidosis signals from pH-sensitive Cu-labelled polymers. *Nature Biomedical Engineering*, **2020**, 4, 314-324	19	31
97	Transistor-like Ultra-pH-Sensitive Polymeric Nanoparticles. *Accounts of Chemical Research*, **2019**, 52, 1485-1495	24.3	18
96	Synergistic STING activation by PC7A nanovaccine and ionizing radiation improves cancer immunotherapy. *Journal of Controlled Release*, **2019**, 300, 154-160	11.7	38

95	Targeting the Oncogene KRAS Mutant Pancreatic Cancer by Synergistic Blocking of Lysosomal Acidification and Rapid Drug Release. *ACS Nano*, **2019**, 13, 4049-4063	16.7	66
94	Image-guided surgery for tumor agnostic detection of solid tumors using the pH-activated micellar imaging agent ONM-100.. *Journal of Clinical Oncology*, **2019**, 37, 3068-3068	2.2	3
93	Cooperativity Principles in Self-Assembled Nanomedicine. *Chemical Reviews*, **2018**, 118, 5359-5391	68.1	94
92	Optical molecular imaging for tumor detection and image-guided surgery. *Biomaterials*, **2018**, 157, 62-75	15.6	122
91	A STING-activating nanovaccine for cancer immunotherapy. *Nature Nanotechnology*, **2017**, 12, 648-654	28.7	441
90	Synthetic nanovaccines for immunotherapy. *Journal of Controlled Release*, **2017**, 263, 200-210	11.7	65
89	A Redox-Activatable Fluorescent Sensor for the High-Throughput Quantification of Cytosolic Delivery of Macromolecules. *Angewandte Chemie*, **2017**, 129, 1339-1343	3.6	5
88	A Redox-Activatable Fluorescent Sensor for the High-Throughput Quantification of Cytosolic Delivery of Macromolecules. *Angewandte Chemie - International Edition*, **2017**, 56, 1319-1323	16.4	22
87	Innate Immune Activation by cGMP-AMP Nanoparticles Leads to Potent and Long-Acting Antiretroviral Response against HIV-1. *Journal of Immunology*, **2017**, 199, 3840-3848	5.3	29
86	Digitization of Endocytic pH by Hybrid Ultra-pH-Sensitive Nanoprobes at Single-Organelle Resolution. *Advanced Materials*, **2017**, 29, 1603794	24	55
85	Investigation of endosome and lysosome biology by ultra pH-sensitive nanoprobes. *Advanced Drug Delivery Reviews*, **2017**, 113, 87-96	18.5	91
84	Small-molecule TFEB pathway agonists that ameliorate metabolic syndrome in mice and extend C. elegans lifespan. *Nature Communications*, **2017**, 8, 2270	17.4	79
83	A Transistor-like pH Nanoprobe for Tumour Detection and Image-guided Surgery. *Nature Biomedical Engineering*, **2016**, 1,	19	107
82	NQO1 Bioactivatable Drugs Enhance Radiation Responses **2016**, 225-252		1
81	Molecular basis of cooperativity in pH-triggered supramolecular self-assembly. *Nature Communications*, **2016**, 7, 13214	17.4	70
80	Lysosome-oriented, dual-stage pH-responsive polymeric micelles for β-Lapachone delivery. *Journal of Materials Chemistry B*, **2016**, 4, 7429-7440	7.3	7
79	Non-covalent interactions in controlling pH-responsive behaviors of self-assembled nanosystems. *Polymer Chemistry*, **2016**, 7, 5949-5956	4.9	38
78	Regulation of Hematopoiesis and Methionine Homeostasis by mTORC1 Inhibitor NPRL2. *Cell Reports*, **2015**, 12, 371-9	10.6	31

77	□Lapachone and Paclitaxel Combination Micelles with Improved Drug Encapsulation and Therapeutic Synergy as Novel Nanotherapeutics for NQO1-Targeted Cancer Therapy. *Molecular Pharmaceutics*, **2015**, 12, 3999-4010	5.6	30
76	A nanobuffer reporter library for fine-scale imaging and perturbation of endocytic organelles. *Nature Communications*, **2015**, 6, 8524	17.4	57
75	Nanotechnology-enabled delivery of NQO1 bioactivatable drugs. *Journal of Drug Targeting*, **2015**, 23, 672-80	5.4	17
74	Esterase-activatable □lapachone prodrug micelles for NQO1-targeted lung cancer therapy. *Journal of Controlled Release*, **2015**, 200, 201-11	11.7	67
73	A nanoparticle-based strategy for the imaging of a broad range of tumours by nonlinear amplification of microenvironment signals. *Nature Materials*, **2014**, 13, 204-12	27	590
72	In vivo optical imaging of folate receptor-□n head and neck squamous cell carcinoma. *Laryngoscope*, **2014**, 124, E312-9	3.6	24
71	Ultra-pH-sensitive nanoprobe library with broad pH tunability and fluorescence emissions. *Journal of the American Chemical Society*, **2014**, 136, 11085-92	16.4	190
70	Review of poly (ADP-ribose) polymerase (PARP) mechanisms of action and rationale for targeting in cancer and other diseases. *Critical Reviews in Eukaryotic Gene Expression*, **2014**, 24, 15-28	1.3	301
69	Highly cited research articles in Journal of Controlled Release: Commentaries and perspectives by authors. *Journal of Controlled Release*, **2014**, 190, 29-74	11.7	47
68	Prodrug strategy to achieve lyophilizable, high drug loading micelle formulations through diester derivatives of □Lapachone. *Advanced Healthcare Materials*, **2014**, 3, 1210-6	10.1	20
67	Chaotropic-Anion-Induced Supramolecular Self-Assembly of Ionic Polymeric Micelles. *Angewandte Chemie*, **2014**, 126, 8212-8216	3.6	2
66	Chaotropic-anion-induced supramolecular self-assembly of ionic polymeric micelles. *Angewandte Chemie - International Edition*, **2014**, 53, 8074-8	16.4	30
65	Multi-chromatic pH-activatable 19F-MRI nanoprobes with binary ON/OFF pH transitions and chemical-shift barcodes. *Angewandte Chemie - International Edition*, **2013**, 52, 8074-8	16.4	95
64	A novel class of polymeric pH-responsive MRI CEST agents. *Chemical Communications*, **2013**, 49, 6418-20	5.8	24
63	Superparamagnetic iron oxide nanoparticles: amplifying ROS stress to improve anticancer drug efficacy. *Theranostics*, **2013**, 3, 116-26	12.1	234
62	Catalase abrogates □lapachone-induced PARP1 hyperactivation-directed programmed necrosis in NQO1-positive breast cancers. *Molecular Cancer Therapeutics*, **2013**, 12, 2110-20	6.1	71
61	Multi-Chromatic pH-Activatable 19F-MRI Nanoprobes with Binary ON/OFF pH Transitions and Chemical-Shift Barcodes. *Angewandte Chemie*, **2013**, 125, 8232-8236	3.6	17
60	Theranostic Polymeric Micelles for Cancer Imaging and Therapy. *Nanostructure Science and Technology*, **2012**, 257-276	0.9	1

59	Guidelines for the use and interpretation of assays for monitoring autophagy. *Autophagy*, **2012**, 8, 445-544	13.2	2783
58	Multicolored pH-tunable and activatable fluorescence nanoplatform responsive to physiologic pH stimuli. *Journal of the American Chemical Society*, **2012**, 134, 7803-11	16.4	277
57	An NQO1 substrate with potent antitumor activity that selectively kills by PARP1-induced programmed necrosis. *Cancer Research*, **2012**, 72, 3038-47	10.1	96
56	Characterization and optimization of mTHPP nanoparticles for photodynamic therapy of head and neck cancer. *Otolaryngology - Head and Neck Surgery*, **2011**, 145, 612-7	5.5	18
55	CLINICAL APPLICATIONS OF HEME BIOSYNTHETIC PATHWAY: Photodynamic Therapy with Protoporphyrin IX **2011**, 197-209		1
54	Nanoscopic micelle delivery improves the photophysical properties and efficacy of photodynamic therapy of protoporphyrin IX. *Journal of Controlled Release*, **2011**, 151, 271-7	11.7	102
53	Photoactivation switch from type II to type I reactions by electron-rich micelles for improved photodynamic therapy of cancer cells under hypoxia. *Journal of Controlled Release*, **2011**, 156, 276-80	11.7	155
52	Nanonization strategies for poorly water-soluble drugs. *Drug Discovery Today*, **2011**, 16, 354-60	8.8	455
51	Tunable, Ultrasensitive pH-Responsive Nanoparticles Targeting Specific Endocytic Organelles in Living Cells. *Angewandte Chemie*, **2011**, 123, 6233-6238	3.6	51
50	Tunable, ultrasensitive pH-responsive nanoparticles targeting specific endocytic organelles in living cells. *Angewandte Chemie - International Edition*, **2011**, 50, 6109-14	16.4	426
49	Nonclustered magnetite nanoparticle encapsulated biodegradable polymeric micelles with enhanced properties for in vivo tumor imaging. *Journal of Materials Chemistry*, **2011**, 21, 4796		60
48	Shape-specific polymeric nanomedicine: emerging opportunities and challenges. *Experimental Biology and Medicine*, **2011**, 236, 20-9	3.7	119
47	Overcoming endosomal barrier by amphotericin B-loaded dual pH-responsive PDMA-b-PDPA micelleplexes for siRNA delivery. *ACS Nano*, **2011**, 5, 9246-55	16.7	194
46	Off-resonance saturation MRI of superparamagnetic nanoprobes: theoretical models and experimental validations. *Journal of Magnetic Resonance*, **2011**, 209, 53-60	3	16
45	Modeling particle shape-dependent dynamics in nanomedicine. *Journal of Nanoscience and Nanotechnology*, **2011**, 11, 919-28	1.3	146
44	Prostate cancer radiosensitization through poly(ADP-Ribose) polymerase-1 hyperactivation. *Cancer Research*, **2010**, 70, 8088-96	10.1	64
43	Beta-lapachone micellar nanotherapeutics for non-small cell lung cancer therapy. *Cancer Research*, **2010**, 70, 3896-904	10.1	111
42	MRI-visible micellar nanomedicine for targeted drug delivery to lung cancer cells. *Molecular Pharmaceutics*, **2010**, 7, 32-40	5.6	160

41	Polymeric micelle nanoparticles for photodynamic treatment of head and neck cancer cells. *Otolaryngology - Head and Neck Surgery*, **2010**, 143, 109-15	5.5	33
40	Off-resonance saturation magnetic resonance imaging of superparamagnetic polymeric micelles. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2009**, 2009, 4095-7	0.9	4
39	Intratumoral delivery of beta-lapachone via polymer implants for prostate cancer therapy. *Clinical Cancer Research*, **2009**, 15, 131-9	12.9	59
38	In vivo off-resonance saturation magnetic resonance imaging of alphavbeta3-targeted superparamagnetic nanoparticles. *Cancer Research*, **2009**, 69, 1651-8	10.1	85
37	Polymeric nanomedicine for cancer MR imaging and drug delivery. *Chemical Communications*, **2009**, 3497-510	5.8	149
36	Multifunctional micellar nanomedicine for cancer therapy. *Experimental Biology and Medicine*, **2009**, 234, 123-31	3.7	255
35	Model simulation and experimental validation of intratumoral chemotherapy using multiple polymer implants. *Medical and Biological Engineering and Computing*, **2008**, 46, 1039-49	3.1	21
34	Polymer implants for intratumoral drug delivery and cancer therapy. *Journal of Pharmaceutical Sciences*, **2008**, 97, 1681-702	3.9	108
33	Folate-encoded and Fe3O4-loaded polymeric micelles for dual targeting of cancer cells. *Polymer*, **2008**, 49, 3477-3485	3.9	118
32	Surface energy induced patterning of polymer nanostructures for cancer diagnosis and therapy **2007**,		1
31	Antitumor efficacy and local distribution of doxorubicin via intratumoral delivery from polymer millirods. *Journal of Biomedical Materials Research - Part A*, **2007**, 81, 161-70	5.4	58
30	Combined radiofrequency ablation and doxorubicin-eluting polymer implants for liver cancer treatment. *Journal of Biomedical Materials Research - Part A*, **2007**, 81, 205-13	5.4	28
29	A mechanistic model of controlled drug release from polymer millirods: effects of excipients and complex binding. *Journal of Controlled Release*, **2007**, 119, 111-20	11.7	34
28	Beta-lapachone-containing PEG-PLA polymer micelles as novel nanotherapeutics against NQO1-overexpressing tumor cells. *Journal of Controlled Release*, **2007**, 122, 365-74	11.7	133
27	Modeling doxorubicin transport to improve intratumoral drug delivery to RF ablated tumors. *Journal of Controlled Release*, **2007**, 124, 11-9	11.7	43
26	Functionalized micellar systems for cancer targeted drug delivery. *Pharmaceutical Research*, **2007**, 24, 1029-46	4.5	473
25	Doxorubicin and beta-lapachone release and interaction with micellar core materials: experiment and modeling. *Experimental Biology and Medicine*, **2007**, 232, 1090-9	3.7	52
24	An NQO1- and PARP-1-mediated cell death pathway induced in non-small-cell lung cancer cells by beta-lapachone. *Proceedings of the National Academy of Sciences of the United States of America*, **2007**, 104, 11832-7	11.5	272

23	Poly(D, L-lactide-co-glycolide)/poly(ethylenimine) blend matrix system for pH sensitive drug delivery. *Journal of Applied Polymer Science*, **2006**, 100, 89-96	2.9	17
22	Local release of dexamethasone from polymer millirods effectively prevents fibrosis after radiofrequency ablation. *Journal of Biomedical Materials Research - Part A*, **2006**, 76, 174-82	5.4	20
21	Modulating beta-lapachone release from polymer millirods through cyclodextrin complexation. *Journal of Pharmaceutical Sciences*, **2006**, 95, 2309-19	3.9	35
20	Multifunctional polymeric micelles as cancer-targeted, MRI-ultrasensitive drug delivery systems. *Nano Letters*, **2006**, 6, 2427-30	11.5	1113
19	Development of beta-lapachone prodrugs for therapy against human cancer cells with elevated NAD(P)H:quinone oxidoreductase 1 levels. *Clinical Cancer Research*, **2005**, 11, 3055-64	12.9	72
18	Magnetite-Loaded Polymeric Micelles as Ultrasensitive Magnetic-Resonance Probes. *Advanced Materials*, **2005**, 17, 1949-1952	24	426
17	Efficacy of beta-lapachone in pancreatic cancer treatment: exploiting the novel, therapeutic target NQO1. *Cancer Biology and Therapy*, **2005**, 4, 95-102	4.6	132
16	TECHNIQUES IN X-RAY COMPUTED TOMOGRAPHY IN THE EVALUATION OF DRUG RELEASE SYSTEMS AND THEIR APPLICATION **2005**, 105-131		
15	Micellar carriers based on block copolymers of poly(epsilon-caprolactone) and poly(ethylene glycol) for doxorubicin delivery. *Journal of Controlled Release*, **2004**, 98, 415-26	11.7	637
14	Size-controlled polyelectrolyte nanocapsules via layer-by-layer self-assembly. *Journal of Materials Science*, **2004**, 39, 1429-1432	4.3	14
13	Comparison of doxorubicin concentration profiles in radiofrequency-ablated rat livers from sustained- and dual-release PLGA millirods. *Pharmaceutical Research*, **2004**, 21, 394-9	4.5	17
12	cRGD-functionalized polymer micelles for targeted doxorubicin delivery. *Angewandte Chemie - International Edition*, **2004**, 43, 6323-7	16.4	361
11	Effect of fibrous capsule formation on doxorubicin distribution in radiofrequency ablated rat livers. *Journal of Biomedical Materials Research Part B*, **2004**, 69, 398-406		15
10	Enhancement of solubility and bioavailability of beta-lapachone using cyclodextrin inclusion complexes. *Pharmaceutical Research*, **2003**, 20, 1626-33	4.5	108
9	Quantification of in vivo doxorubicin transport from PLGA millirods in thermoablated rat livers. *Journal of Controlled Release*, **2003**, 91, 157-66	11.7	44
8	Local carboplatin delivery and tissue distribution in livers after radiofrequency ablation. *Journal of Biomedical Materials Research Part B*, **2003**, 67, 510-6		13
7	Noninvasive monitoring of local drug release in a rabbit radiofrequency (RF) ablation model using X-ray computed tomography. *Journal of Controlled Release*, **2002**, 83, 415-25	11.7	12
6	Combined modeling and experimental approach for the development of dual-release polymer millirods. *Journal of Controlled Release*, **2002**, 83, 427-35	11.7	22

5	Membrane-encased polymer millirods for sustained release of 5-fluorouracil. *Journal of Biomedical Materials Research Part B*, **2002**, 61, 203-11		26
4	In vivo drug distribution dynamics in thermoablated and normal rabbit livers from biodegradable polymers. *Journal of Biomedical Materials Research Part B*, **2002**, 62, 308-14		35
3	Fabrication and characterization of controlled release poly(D,L-lactide-co-glycolide) millirods. *Journal of Biomedical Materials Research Part B*, **2001**, 55, 512-22		50
2	Cloning and mutational analysis of human malonyl-coenzyme A decarboxylase. *Journal of Lipid Research*, **1999**, 40, 178-82	6.3	47
1	Cancer Therapy: Intratumoral Drug Delivery1240-1257		