

Jinming Gao

List of Publications by Year in descending order

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Version: 2024-02-01

113
papers

17,148
citations

28274

55
h-index

25787

108
g-index

121
all docs

121
docs citations

121
times ranked

26756
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantitative phosphoproteomic analyses identify STK11IP as a lysosome-specific substrate of mTORC1 that regulates lysosomal acidification. <i>Nature Communications</i> , 2022, 13, 1760.	12.8	6
2	Intratumoral administration of STING-activating nanovaccine enhances T cell immunotherapy. , 2022, 10, e003960.		22
3	Tumor-Targeted Inhibition of Monocarboxylate Transporter 1 Improves T-Cell Immunotherapy of Solid Tumors. <i>Advanced Healthcare Materials</i> , 2021, 10, e2000549.	7.6	47
4	Antigen folding improves loading efficiency and antitumor efficacy of PC7A nanoparticle vaccine. <i>Journal of Controlled Release</i> , 2021, 329, 353-360.	9.9	13
5	Factors Associated with Lymph Node Count in Mucosal Squamous Cell Carcinoma Neck Dissection. <i>Laryngoscope</i> , 2021, 131, 1516-1521.	2.0	1
6	Prolonged activation of innate immune pathways by a polyvalent STING agonist. <i>Nature Biomedical Engineering</i> , 2021, 5, 455-466.	22.5	157
7	A Standardized Framework for Fluorescence-Guided Margin Assessment for Head and Neck Cancer Using a Tumor Acidosis Sensitive Optical Imaging Agent. <i>Molecular Imaging and Biology</i> , 2021, 23, 809-817.	2.6	8
8	Polyvalent design in the cGAS-STING pathway. <i>Seminars in Immunology</i> , 2021, 56, 101580.	5.6	8
9	PET imaging of occult tumours by temporal integration of tumour-acidosis signals from pH-sensitive ⁶⁴ Cu-labelled polymers. <i>Nature Biomedical Engineering</i> , 2020, 4, 314-324.	22.5	48
10	Nano-Immune-Engineering Approaches to Advance Cancer Immunotherapy: Lessons from Ultra-pH-Sensitive Nanoparticles. <i>Accounts of Chemical Research</i> , 2020, 53, 2546-2557.	15.6	34
11	Polycarbonate-based ultra-pH sensitive nanoparticles improve therapeutic window. <i>Nature Communications</i> , 2020, 11, 5828.	12.8	49
12	P857-ONM-500 as a novel STING-activating therapeutic nanovaccine platform for cancer immunotherapy. , 2020, , .		1
13	Exploiting nanoscale cooperativity for precision medicine. <i>Advanced Drug Delivery Reviews</i> , 2020, 158, 63-72.	13.7	17
14	Exploiting metabolic acidosis in solid cancers using a tumor-agnostic pH-activatable nanoprobe for fluorescence-guided surgery. <i>Nature Communications</i> , 2020, 11, 3257.	12.8	97
15	Detection of Lymph Node Metastases by Ultra-pH-Sensitive Polymeric Nanoparticles. <i>Theranostics</i> , 2020, 10, 3340-3350.	10.0	19
16	Transistor-like Ultra-pH-Sensitive Polymeric Nanoparticles. <i>Accounts of Chemical Research</i> , 2019, 52, 1485-1495.	15.6	33
17	Synergistic STING activation by PC7A nanovaccine and ionizing radiation improves cancer immunotherapy. <i>Journal of Controlled Release</i> , 2019, 300, 154-160.	9.9	61
18	Targeting the Oncogene KRAS Mutant Pancreatic Cancer by Synergistic Blocking of Lysosomal Acidification and Rapid Drug Release. <i>ACS Nano</i> , 2019, 13, 4049-4063.	14.6	105

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19	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.	1.6	4
20	Cooperativity Principles in Self-Assembled Nanomedicine. Chemical Reviews, 2018, 118, 5359-5391.	47.7	129
21	Optical molecular imaging for tumor detection and image-guided surgery. Biomaterials, 2018, 157, 62-75.	11.4	178
22	A STING-activating nanovaccine for cancer immunotherapy. Nature Nanotechnology, 2017, 12, 648-654.	31.5	649
23	Synthetic nanovaccines for immunotherapy. Journal of Controlled Release, 2017, 263, 200-210.	9.9	88
24	A transistor-like pH nanoprobe for tumour detection and image-guided surgery. Nature Biomedical Engineering, 2017, 1, .	22.5	163
25	A Redox-Activatable Fluorescent Sensor for the High-Throughput Quantification of Cytosolic Delivery of Macromolecules. Angewandte Chemie, 2017, 129, 1339-1343.	2.0	6
26	A Redox-Activatable Fluorescent Sensor for the High-Throughput Quantification of Cytosolic Delivery of Macromolecules. Angewandte Chemie - International Edition, 2017, 56, 1319-1323.	13.8	30
27	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.	0.8	39
28	Digitization of Endocytic pH by Hybrid Ultra-pH-Sensitive Nanoprobes at Single-Organelle Resolution. Advanced Materials, 2017, 29, 1603794.	21.0	69
29	Investigation of endosome and lysosome biology by ultra pH-sensitive nanoprobes. Advanced Drug Delivery Reviews, 2017, 113, 87-96.	13.7	135
30	Small-molecule TFEB pathway agonists that ameliorate metabolic syndrome in mice and extend C. elegans lifespan. Nature Communications, 2017, 8, 2270.	12.8	121
31	Non-covalent interactions in controlling pH-responsive behaviors of self-assembled nanosystems. Polymer Chemistry, 2016, 7, 5949-5956.	3.9	55
32	NQO1 Bioactivatable Drugs Enhance Radiation Responses. , 2016, , 225-252.		1
33	Molecular basis of cooperativity in pH-triggered supramolecular self-assembly. Nature Communications, 2016, 7, 13214.	12.8	98
34	Lysosome-oriented, dual-stage pH-responsive polymeric micelles for Î²-lapachone delivery. Journal of Materials Chemistry B, 2016, 4, 7429-7440.	5.8	10
35	Esterase-activatable Î²-lapachone prodrug micelles for NQO1-targeted lung cancer therapy. Journal of Controlled Release, 2015, 200, 201-211.	9.9	88
36	Regulation of Hematopoiesis and Methionine Homeostasis by mTORC1 Inhibitor NPRL2. Cell Reports, 2015, 12, 371-379.	6.4	40

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37	125 I-Lapachone and Paclitaxel Combination Micelles with Improved Drug Encapsulation and Therapeutic Synergy as Novel Nanotherapeutics for NQO1-Targeted Cancer Therapy. <i>Molecular Pharmaceutics</i> , 2015, 12, 3999-4010.	4.6	40
38	A nanobuffer reporter library for fine-scale imaging and perturbation of endocytic organelles. <i>Nature Communications</i> , 2015, 6, 8524.	12.8	71
39	Nanotechnology-enabled delivery of NQO1 bioactivatable drugs. <i>Journal of Drug Targeting</i> , 2015, 23, 672-680.	4.4	26
40	Highly cited research articles in <i>Journal of Controlled Release</i> : Commentaries and perspectives by authors. <i>Journal of Controlled Release</i> , 2014, 190, 29-74.	9.9	394
41	Prodrug Strategy to Achieve Lyophilizable, High Drug Loading Micelle Formulations Through Diester Derivatives of 125 I-Lapachone. <i>Advanced Healthcare Materials</i> , 2014, 3, 1210-1216.	7.6	27
42	Chaotropic Anion-Induced Supramolecular Self-Assembly of Ionic Polymeric Micelles. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 8074-8078.	13.8	40
43	A nanoparticle-based strategy for the imaging of a broad range of tumours by nonlinear amplification of microenvironment signals. <i>Nature Materials</i> , 2014, 13, 204-212.	27.5	695
44	In vivo optical imaging of folate receptor $^{\beta}$ in head and neck squamous cell carcinoma. <i>Laryngoscope</i> , 2014, 124, E312-9.	2.0	28
45	Ultra-pH-Sensitive Nanoprobe Library with Broad pH Tunability and Fluorescence Emissions. <i>Journal of the American Chemical Society</i> , 2014, 136, 11085-11092.	13.7	241
46	Review of Poly (ADP-ribose) Polymerase (PARP) Mechanisms of Action and Rationale for Targeting in Cancer and Other Diseases. <i>Critical Reviews in Eukaryotic Gene Expression</i> , 2014, 24, 15-28.	0.9	438
47	Multi-Chromatic pH-Activatable 19 F-MRI Nanoprobes with Binary ON/OFF pH Transitions and Chemical-Shift Barcodes. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 8074-8078.	13.8	106
48	Jet rollable nanoimprint lithography with piezoelectric jetting of resist. , 2013, , .		0
49	A novel class of polymeric pH-responsive MRI CEST agents. <i>Chemical Communications</i> , 2013, 49, 6418.	4.1	29
50	Superparamagnetic Iron Oxide Nanoparticles: Amplifying ROS Stress to Improve Anticancer Drug Efficacy. <i>Theranostics</i> , 2013, 3, 116-126.	10.0	277
51	Catalase Abrogates 125 I-Lapachone-Induced PARP1 Hyperactivation-Directed Programmed Necrosis in NQO1-Positive Breast Cancers. <i>Molecular Cancer Therapeutics</i> , 2013, 12, 2110-2120.	4.1	85
52	An NQO1 Substrate with Potent Antitumor Activity That Selectively Kills by PARP1-Induced Programmed Necrosis. <i>Cancer Research</i> , 2012, 72, 3038-3047.	0.9	121
53	Theranostic Polymeric Micelles for Cancer Imaging and Therapy. <i>Nanostructure Science and Technology</i> , 2012, , 257-276.	0.1	2
54	Guidelines for the use and interpretation of assays for monitoring autophagy. <i>Autophagy</i> , 2012, 8, 445-544.	9.1	3,122

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55	Multicolored pH-Tunable and Activatable Fluorescence Nanoplatform Responsive to Physiologic pH Stimuli. <i>Journal of the American Chemical Society</i> , 2012, 134, 7803-7811.	13.7	312
56	Nonclustered magnetite nanoparticle encapsulated biodegradable polymeric micelles with enhanced properties for in vivo tumor imaging. <i>Journal of Materials Chemistry</i> , 2011, 21, 4796.	6.7	62
57	Shape-specific polymeric nanomedicine: emerging opportunities and challenges. <i>Experimental Biology and Medicine</i> , 2011, 236, 20-29.	2.4	130
58	Overcoming Endosomal Barrier by Amphotericin B-Loaded Dual pH-Responsive PDMA- <i>b</i> -PDPA Micelleplexes for siRNA Delivery. <i>ACS Nano</i> , 2011, 5, 9246-9255.	14.6	218
59	Characterization and Optimization of mTHPP Nanoparticles for Photodynamic Therapy of Head and Neck Cancer. <i>Otolaryngology - Head and Neck Surgery</i> , 2011, 145, 612-617.	1.9	21
60	CLINICAL APPLICATIONS OF HEME BIOSYNTHETIC PATHWAY: Photodynamic Therapy with Protoporphyrin IX. , 2011, , 197-209.		1
61	Nanoscope micelle delivery improves the photophysical properties and efficacy of photodynamic therapy of protoporphyrin IX. <i>Journal of Controlled Release</i> , 2011, 151, 271-277.	9.9	113
62	Photoactivation switch from type II to type I reactions by electron-rich micelles for improved photodynamic therapy of cancer cells under hypoxia. <i>Journal of Controlled Release</i> , 2011, 156, 276-280.	9.9	202
63	Nanonization strategies for poorly water-soluble drugs. <i>Drug Discovery Today</i> , 2011, 16, 354-360.	6.4	525
64	Tunable, Ultrasensitive pH-Responsive Nanoparticles Targeting Specific Endocytic Organelles in Living Cells. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 6109-6114.	13.8	488
65	Off-resonance saturation MRI of superparamagnetic nanoprobes: Theoretical models and experimental validations. <i>Journal of Magnetic Resonance</i> , 2011, 209, 53-60.	2.1	16
66	Modeling Particle Shape-Dependent Dynamics in Nanomedicine. <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 919-928.	0.9	165
67	Polymeric micelle nanoparticles for photodynamic treatment of head and neck cancer cells. <i>Otolaryngology - Head and Neck Surgery</i> , 2010, 143, 109-115.	1.9	42
68	Prostate Cancer Radiosensitization through Poly(ADP-Ribose) Polymerase-1 Hyperactivation. <i>Cancer Research</i> , 2010, 70, 8088-8096.	0.9	82
69	Î²-Lapachone Micellar Nanotherapeutics for Non-Small Cell Lung Cancer Therapy. <i>Cancer Research</i> , 2010, 70, 3896-3904.	0.9	135
70	MRI-Visible Micellar Nanomedicine for Targeted Drug Delivery to Lung Cancer Cells. <i>Molecular Pharmaceutics</i> , 2010, 7, 32-40.	4.6	175
71	Influence of Nanoparticle Design on Binding Efficiency. , 2010, , .		0
72	Off-resonance saturation magnetic resonance imaging of superparamagnetic polymeric micelles. , 2009, 2009, 4095-7.		5

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73	Intratumoral Delivery of ^{125}I -Lapachone via Polymer Implants for Prostate Cancer Therapy. <i>Clinical Cancer Research</i> , 2009, 15, 131-139.	7.0	68
74	<i>In vivo</i> Off-Resonance Saturation Magnetic Resonance Imaging of ^{125}I -Targeted Superparamagnetic Nanoparticles. <i>Cancer Research</i> , 2009, 69, 1651-1658.	0.9	94
75	Polymeric nanomedicine for cancer MR imaging and drug delivery. <i>Chemical Communications</i> , 2009, , 3497.	4.1	165
76	Multifunctional Micellar Nanomedicine for Cancer Therapy. <i>Experimental Biology and Medicine</i> , 2009, 234, 123-131.	2.4	294
77	Model simulation and experimental validation of intratumoral chemotherapy using multiple polymer implants. <i>Medical and Biological Engineering and Computing</i> , 2008, 46, 1039-1049.	2.8	22
78	Polymer Implants for Intratumoral Drug Delivery and Cancer Therapy. <i>Journal of Pharmaceutical Sciences</i> , 2008, 97, 1681-1702.	3.3	129
79	Folate-encoded and Fe_3O_4 -loaded polymeric micelles for dual targeting of cancer cells. <i>Polymer</i> , 2008, 49, 3477-3485.	3.8	128
80	Theranostic nanomedicine for cancer. <i>Nanomedicine</i> , 2008, 3, 137-140.	3.3	413
81	Doxorubicin and ^{125}I -Lapachone Release and Interaction with Micellar Core Materials: Experiment and Modeling. <i>Experimental Biology and Medicine</i> , 2007, 232, 1090-1099.	2.4	58
82	An NQO1- and PARP-1-mediated cell death pathway induced in non-small-cell lung cancer cells by ^{125}I -lapachone. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 11832-11837.	7.1	318
83	Electron Tomography for 3-Dimensional Characterization of Nanoconstructs. <i>Microscopy and Microanalysis</i> , 2007, 13, .	0.4	0
84	Surface energy induced patterning of polymer nanostructures for cancer diagnosis and therapy. , 2007, , .		1
85	Antitumor efficacy and local distribution of doxorubicin via intratumoral delivery from polymer millirods. <i>Journal of Biomedical Materials Research - Part A</i> , 2007, 81A, 161-170.	4.0	67
86	Combined radiofrequency ablation and doxorubicin-eluting polymer implants for liver cancer treatment. <i>Journal of Biomedical Materials Research - Part A</i> , 2007, 81A, 205-213.	4.0	31
87	A mechanistic model of controlled drug release from polymer millirods: Effects of excipients and complex binding. <i>Journal of Controlled Release</i> , 2007, 119, 111-120.	9.9	39
88	^{125}I -Lapachone-containing PEG-PLA polymer micelles as novel nanotherapeutics against NQO1-overexpressing tumor cells. <i>Journal of Controlled Release</i> , 2007, 122, 365-374.	9.9	152
89	Modeling doxorubicin transport to improve intratumoral drug delivery to RF ablated tumors. <i>Journal of Controlled Release</i> , 2007, 124, 11-19.	9.9	51
90	Functionalized Micellar Systems for Cancer Targeted Drug Delivery. <i>Pharmaceutical Research</i> , 2007, 24, 1029-1046.	3.5	513

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91	Zinc Superparamagnetic Iron Oxide Nanoparticles for Use as MRI Contrast Agents. , 2007, , .		0
92	Multifunctional Polymeric Micelles as Cancer-Targeted, MRI-Ultrasensitive Drug Delivery Systems. Nano Letters, 2006, 6, 2427-2430.	9.1	1,180
93	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.	2.6	17
94	Local release of dexamethasone from polymer millirods effectively prevents fibrosis after radiofrequency ablation. Journal of Biomedical Materials Research - Part A, 2006, 76A, 174-182.	4.0	21
95	Modulating β -lapachone release from polymer millirods through cyclodextrin complexation. Journal of Pharmaceutical Sciences, 2006, 95, 2309-2319.	3.3	38
96	Magnetite-Loaded Polymeric Micelles as Ultrasensitive Magnetic-Resonance Probes. Advanced Materials, 2005, 17, 1949-1952.	21.0	443
97	Efficacy of beta-lapachone in pancreatic cancer treatment: Exploiting the novel, therapeutic target NQO1. Cancer Biology and Therapy, 2005, 4, 102-109.	3.4	153
98	Development of β -Lapachone Prodrugs for Therapy Against Human Cancer Cells with Elevated NAD(P)H:Quinone Oxidoreductase 1 Levels. Clinical Cancer Research, 2005, 11, 3055-3064.	7.0	84
99	TECHNIQUES IN X-RAY COMPUTED TOMOGRAPHY IN THE EVALUATION OF DRUG RELEASE SYSTEMS AND THEIR APPLICATION. , 2005, , 105-131.		0
100	Micellar carriers based on block copolymers of poly(ϵ -caprolactone) and poly(ethylene glycol) for doxorubicin delivery. Journal of Controlled Release, 2004, 98, 415-426.	9.9	676
101	Size-controlled polyelectrolyte nanocapsules via layer-by-layer self-assembly. Journal of Materials Science, 2004, 39, 1429-1432.	3.7	15
102	Comparison of Doxorubicin Concentration Profiles in Radiofrequency-Ablated Rat Livers from Sustained- and Dual-Release PLGA Millirods. Pharmaceutical Research, 2004, 21, 394-399.	3.5	18
103	cRGD-Functionalized Polymer Micelles for Targeted Doxorubicin Delivery. Angewandte Chemie - International Edition, 2004, 43, 6323-6327.	13.8	384
104	Effect of fibrous capsule formation on doxorubicin distribution in radiofrequency ablated rat livers. Journal of Biomedical Materials Research Part B, 2004, 69A, 398-406.	3.1	17
105	Enhancement of solubility and bioavailability of beta-lapachone using cyclodextrin inclusion complexes. Pharmaceutical Research, 2003, 20, 1626-1633.	3.5	126
106	Quantification of in vivo doxorubicin transport from PLGA millirods in thermoablated rat livers. Journal of Controlled Release, 2003, 91, 157-166.	9.9	47
107	Local carboplatin delivery and tissue distribution in livers after radiofrequency ablation. Journal of Biomedical Materials Research Part B, 2003, 67A, 510-516.	3.1	13
108	Noninvasive monitoring of local drug release in a rabbit radiofrequency (RF) ablation model using X-ray computed tomography. Journal of Controlled Release, 2002, 83, 415-425.	9.9	15

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109	Combined modeling and experimental approach for the development of dual-release polymer millirods. <i>Journal of Controlled Release</i> , 2002, 83, 427-435.	9.9	25
110	Membrane-encased polymer millirods for sustained release of 5-fluorouracil. <i>Journal of Biomedical Materials Research Part B</i> , 2002, 61, 203-211.	3.1	31
111	In vivo drug distribution dynamics in thermoablated and normal rabbit livers from biodegradable polymers. <i>Journal of Biomedical Materials Research Part B</i> , 2002, 62, 308-314.	3.1	37
112	Fabrication and characterization of controlled release poly(D,L-lactide-co-glycolide) millirods. <i>Journal of Biomedical Materials Research Part B</i> , 2001, 55, 512-522.	3.1	55
113	Cloning and mutational analysis of human malonyl-coenzyme A decarboxylase. <i>Journal of Lipid Research</i> , 1999, 40, 178-82.	4.2	47