

Jinming Gao

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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	Guidelines for the use and interpretation of assays for monitoring autophagy. <i>Autophagy</i> , 2012 , 8, 445-544.	14.2	2783
111	Multifunctional polymeric micelles as cancer-targeted, MRI-ultrasensitive drug delivery systems. <i>Nano Letters</i> , 2006 , 6, 2427-30	11.5	1113
110	Micellar carriers based on block copolymers of poly(epsilon-caprolactone) and poly(ethylene glycol) for doxorubicin delivery. <i>Journal of Controlled Release</i> , 2004 , 98, 415-26	11.7	637
109	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, 204-12	27	590
108	Functionalized micellar systems for cancer targeted drug delivery. <i>Pharmaceutical Research</i> , 2007 , 24, 1029-46	4.5	473
107	Nanonization strategies for poorly water-soluble drugs. <i>Drug Discovery Today</i> , 2011 , 16, 354-60	8.8	455
106	A STING-activating nanovaccine for cancer immunotherapy. <i>Nature Nanotechnology</i> , 2017 , 12, 648-654	28.7	441
105	Tunable, ultrasensitive pH-responsive nanoparticles targeting specific endocytic organelles in living cells. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 6109-14	16.4	426
104	Magnetite-Loaded Polymeric Micelles as Ultrasensitive Magnetic-Resonance Probes. <i>Advanced Materials</i> , 2005 , 17, 1949-1952	24	426
103	cRGD-functionalized polymer micelles for targeted doxorubicin delivery. <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 6323-7	16.4	361
102	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	1.3	301
101	Multicolored pH-tunable and activatable fluorescence nanoplatfrom responsive to physiologic pH stimuli. <i>Journal of the American Chemical Society</i> , 2012 , 134, 7803-11	16.4	277
100	An NQO1- and PARP-1-mediated cell death pathway induced in non-small-cell lung cancer cells by beta-lapachone. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 11832-7	11.5	272
99	Multifunctional micellar nanomedicine for cancer therapy. <i>Experimental Biology and Medicine</i> , 2009 , 234, 123-31	3.7	255
98	Superparamagnetic iron oxide nanoparticles: amplifying ROS stress to improve anticancer drug efficacy. <i>Theranostics</i> , 2013 , 3, 116-26	12.1	234
97	Overcoming endosomal barrier by amphotericin B-loaded dual pH-responsive PDMA-b-PDPA micelleplexes for siRNA delivery. <i>ACS Nano</i> , 2011 , 5, 9246-55	16.7	194
96	Ultra-pH-sensitive nanoprobe library with broad pH tunability and fluorescence emissions. <i>Journal of the American Chemical Society</i> , 2014 , 136, 11085-92	16.4	190

95	MRI-visible micellar nanomedicine for targeted drug delivery to lung cancer cells. <i>Molecular Pharmaceutics</i> , 2010 , 7, 32-40	5.6	160
94	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, 276-80	11.7	155
93	Polymeric nanomedicine for cancer MR imaging and drug delivery. <i>Chemical Communications</i> , 2009 , 3497-510	5.1	149
92	Modeling particle shape-dependent dynamics in nanomedicine. <i>Journal of Nanoscience and Nanotechnology</i> , 2011 , 11, 919-28	1.3	146
91	Beta-lapachone-containing PEG-PLA polymer micelles as novel nanotherapeutics against NQO1-overexpressing tumor cells. <i>Journal of Controlled Release</i> , 2007 , 122, 365-74	11.7	133
90	Efficacy of beta-lapachone in pancreatic cancer treatment: exploiting the novel, therapeutic target NQO1. <i>Cancer Biology and Therapy</i> , 2005 , 4, 95-102	4.6	132
89	Optical molecular imaging for tumor detection and image-guided surgery. <i>Biomaterials</i> , 2018 , 157, 62-75	5.6	122
88	Shape-specific polymeric nanomedicine: emerging opportunities and challenges. <i>Experimental Biology and Medicine</i> , 2011 , 236, 20-9	3.7	119
87	Folate-encoded and Fe ₃ O ₄ -loaded polymeric micelles for dual targeting of cancer cells. <i>Polymer</i> , 2008 , 49, 3477-3485	3.9	118
86	Beta-lapachone micellar nanotherapeutics for non-small cell lung cancer therapy. <i>Cancer Research</i> , 2010 , 70, 3896-904	10.1	111
85	Polymer implants for intratumoral drug delivery and cancer therapy. <i>Journal of Pharmaceutical Sciences</i> , 2008 , 97, 1681-702	3.9	108
84	Enhancement of solubility and bioavailability of beta-lapachone using cyclodextrin inclusion complexes. <i>Pharmaceutical Research</i> , 2003 , 20, 1626-33	4.5	108
83	A Transistor-like pH Nanoprobe for Tumour Detection and Image-guided Surgery. <i>Nature Biomedical Engineering</i> , 2016 , 1,	19	107
82	Nanosopic micelle delivery improves the photophysical properties and efficacy of photodynamic therapy of protoporphyrin IX. <i>Journal of Controlled Release</i> , 2011 , 151, 271-7	11.7	102
81	An NQO1 substrate with potent antitumor activity that selectively kills by PARP1-induced programmed necrosis. <i>Cancer Research</i> , 2012 , 72, 3038-47	10.1	96
80	Multi-chromatic pH-activatable ¹⁹ F-MRI nanoprobcs with binary ON/OFF pH transitions and chemical-shift barcodes. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 8074-8	16.4	95
79	Cooperativity Principles in Self-Assembled Nanomedicine. <i>Chemical Reviews</i> , 2018 , 118, 5359-5391	68.1	94
78	Investigation of endosome and lysosome biology by ultra pH-sensitive nanoprobcs. <i>Advanced Drug Delivery Reviews</i> , 2017 , 113, 87-96	18.5	91

77	In vivo off-resonance saturation magnetic resonance imaging of alphavbeta3-targeted superparamagnetic nanoparticles. <i>Cancer Research</i> , 2009 , 69, 1651-8	10.1	85
76	Small-molecule TFEB pathway agonists that ameliorate metabolic syndrome in mice and extend <i>C. elegans</i> lifespan. <i>Nature Communications</i> , 2017 , 8, 2270	17.4	79
75	Development of beta-lapachone prodrugs for therapy against human cancer cells with elevated NAD(P)H:quinone oxidoreductase 1 levels. <i>Clinical Cancer Research</i> , 2005 , 11, 3055-64	12.9	72
74	Catalase abrogates β lapachone-induced PARP1 hyperactivation-directed programmed necrosis in NQO1-positive breast cancers. <i>Molecular Cancer Therapeutics</i> , 2013 , 12, 2110-20	6.1	71
73	Molecular basis of cooperativity in pH-triggered supramolecular self-assembly. <i>Nature Communications</i> , 2016 , 7, 13214	17.4	70
72	Esterase-activatable β lapachone prodrug micelles for NQO1-targeted lung cancer therapy. <i>Journal of Controlled Release</i> , 2015 , 200, 201-11	11.7	67
71	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	16.7	66
70	Synthetic nanovaccines for immunotherapy. <i>Journal of Controlled Release</i> , 2017 , 263, 200-210	11.7	65
69	Prostate cancer radiosensitization through poly(ADP-Ribose) polymerase-1 hyperactivation. <i>Cancer Research</i> , 2010 , 70, 8088-96	10.1	64
68	Nonclustered magnetite nanoparticle encapsulated biodegradable polymeric micelles with enhanced properties for in vivo tumor imaging. <i>Journal of Materials Chemistry</i> , 2011 , 21, 4796		60
67	Intratumoral delivery of beta-lapachone via polymer implants for prostate cancer therapy. <i>Clinical Cancer Research</i> , 2009 , 15, 131-9	12.9	59
66	Antitumor efficacy and local distribution of doxorubicin via intratumoral delivery from polymer millirods. <i>Journal of Biomedical Materials Research - Part A</i> , 2007 , 81, 161-70	5.4	58
65	A nanobuffer reporter library for fine-scale imaging and perturbation of endocytic organelles. <i>Nature Communications</i> , 2015 , 6, 8524	17.4	57
64	Digitization of Endocytic pH by Hybrid Ultra-pH-Sensitive Nanoprobes at Single-Organelle Resolution. <i>Advanced Materials</i> , 2017 , 29, 1603794	24	55
63	Doxorubicin and beta-lapachone release and interaction with micellar core materials: experiment and modeling. <i>Experimental Biology and Medicine</i> , 2007 , 232, 1090-9	3.7	52
62	Tunable, Ultrasensitive pH-Responsive Nanoparticles Targeting Specific Endocytic Organelles in Living Cells. <i>Angewandte Chemie</i> , 2011 , 123, 6233-6238	3.6	51
61	Fabrication and characterization of controlled release poly(D,L-lactide-co-glycolide) millirods. <i>Journal of Biomedical Materials Research Part B</i> , 2001 , 55, 512-22		50
60	Prolonged activation of innate immune pathways by a polyvalent STING agonist. <i>Nature Biomedical Engineering</i> , 2021 , 5, 455-466	19	49

59	Highly cited research articles in Journal of Controlled Release: Commentaries and perspectives by authors. <i>Journal of Controlled Release</i> , 2014 , 190, 29-74	11.7	47
58	Cloning and mutational analysis of human malonyl-coenzyme A decarboxylase. <i>Journal of Lipid Research</i> , 1999 , 40, 178-82	6.3	47
57	Quantification of in vivo doxorubicin transport from PLGA millirods in thermoablated rat livers. <i>Journal of Controlled Release</i> , 2003 , 91, 157-66	11.7	44
56	Modeling doxorubicin transport to improve intratumoral drug delivery to RF ablated tumors. <i>Journal of Controlled Release</i> , 2007 , 124, 11-9	11.7	43
55	Synergistic STING activation by PC7A nanovaccine and ionizing radiation improves cancer immunotherapy. <i>Journal of Controlled Release</i> , 2019 , 300, 154-160	11.7	38
54	Non-covalent interactions in controlling pH-responsive behaviors of self-assembled nanosystems. <i>Polymer Chemistry</i> , 2016 , 7, 5949-5956	4.9	38
53	Exploiting metabolic acidosis in solid cancers using a tumor-agnostic pH-activatable nanoprobe for fluorescence-guided surgery. <i>Nature Communications</i> , 2020 , 11, 3257	17.4	37
52	Modulating beta-lapachone release from polymer millirods through cyclodextrin complexation. <i>Journal of Pharmaceutical Sciences</i> , 2006 , 95, 2309-19	3.9	35
51	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, 308-14		35
50	A mechanistic model of controlled drug release from polymer millirods: effects of excipients and complex binding. <i>Journal of Controlled Release</i> , 2007 , 119, 111-20	11.7	34
49	Polymeric micelle nanoparticles for photodynamic treatment of head and neck cancer cells. <i>Otolaryngology - Head and Neck Surgery</i> , 2010 , 143, 109-15	5.5	33
48	Regulation of Hematopoiesis and Methionine Homeostasis by mTORC1 Inhibitor NPRL2. <i>Cell Reports</i> , 2015 , 12, 371-9	10.6	31
47	PET imaging of occult tumours by temporal integration of tumour-acidosis signals from pH-sensitive Cu-labelled polymers. <i>Nature Biomedical Engineering</i> , 2020 , 4, 314-324	19	31
46	Elapachone 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	5.6	30
45	Chaotropic-anion-induced supramolecular self-assembly of ionic polymeric micelles. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 8074-8	16.4	30
44	Innate Immune Activation by cGMP-AMP Nanoparticles Leads to Potent and Long-Acting Antiretroviral Response against HIV-1. <i>Journal of Immunology</i> , 2017 , 199, 3840-3848	5.3	29
43	Combined radiofrequency ablation and doxorubicin-eluting polymer implants for liver cancer treatment. <i>Journal of Biomedical Materials Research - Part A</i> , 2007 , 81, 205-13	5.4	28
42	Membrane-encased polymer millirods for sustained release of 5-fluorouracil. <i>Journal of Biomedical Materials Research Part B</i> , 2002 , 61, 203-11		26

41	In vivo optical imaging of folate receptor- α in head and neck squamous cell carcinoma. <i>Laryngoscope</i> , 2014 , 124, E312-9	3.6	24
40	A novel class of polymeric pH-responsive MRI CEST agents. <i>Chemical Communications</i> , 2013 , 49, 6418-20	5.8	24
39	A Redox-Activatable Fluorescent Sensor for the High-Throughput Quantification of Cytosolic Delivery of Macromolecules. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 1319-1323	16.4	22
38	Combined modeling and experimental approach for the development of dual-release polymer millirods. <i>Journal of Controlled Release</i> , 2002 , 83, 427-35	11.7	22
37	Model simulation and experimental validation of intratumoral chemotherapy using multiple polymer implants. <i>Medical and Biological Engineering and Computing</i> , 2008 , 46, 1039-49	3.1	21
36	Prodrug strategy to achieve lyophilizable, high drug loading micelle formulations through diester derivatives of β -Lapachone. <i>Advanced Healthcare Materials</i> , 2014 , 3, 1210-6	10.1	20
35	Local release of dexamethasone from polymer millirods effectively prevents fibrosis after radiofrequency ablation. <i>Journal of Biomedical Materials Research - Part A</i> , 2006 , 76, 174-82	5.4	20
34	Polycarbonate-based ultra-pH sensitive nanoparticles improve therapeutic window. <i>Nature Communications</i> , 2020 , 11, 5828	17.4	20
33	Transistor-like Ultra-pH-Sensitive Polymeric Nanoparticles. <i>Accounts of Chemical Research</i> , 2019 , 52, 1485-1495	14.18	18
32	Characterization and optimization of mTHPP nanoparticles for photodynamic therapy of head and neck cancer. <i>Otolaryngology - Head and Neck Surgery</i> , 2011 , 145, 612-7	5.5	18
31	Nanotechnology-enabled delivery of NQO1 bioactivatable drugs. <i>Journal of Drug Targeting</i> , 2015 , 23, 672-80	5.4	17
30	Multi-Chromatic pH-Activatable 19F-MRI Nanoprobes with Binary ON/OFF pH Transitions and Chemical-Shift Barcodes. <i>Angewandte Chemie</i> , 2013 , 125, 8232-8236	3.6	17
29	Poly(D, L-lactide-co-glycolide)/poly(ethylenimine) blend matrix system for pH sensitive drug delivery. <i>Journal of Applied Polymer Science</i> , 2006 , 100, 89-96	2.9	17
28	Comparison of doxorubicin concentration profiles in radiofrequency-ablated rat livers from sustained- and dual-release PLGA millirods. <i>Pharmaceutical Research</i> , 2004 , 21, 394-9	4.5	17
27	Off-resonance saturation MRI of superparamagnetic nanoprobes: theoretical models and experimental validations. <i>Journal of Magnetic Resonance</i> , 2011 , 209, 53-60	3	16
26	Effect of fibrous capsule formation on doxorubicin distribution in radiofrequency ablated rat livers. <i>Journal of Biomedical Materials Research Part B</i> , 2004 , 69, 398-406		15
25	Nano-Immune-Engineering Approaches to Advance Cancer Immunotherapy: Lessons from Ultra-pH-Sensitive Nanoparticles. <i>Accounts of Chemical Research</i> , 2020 , 53, 2546-2557	24.3	15
24	Size-controlled polyelectrolyte nanocapsules via layer-by-layer self-assembly. <i>Journal of Materials Science</i> , 2004 , 39, 1429-1432	4.3	14

23	Tumor-Targeted Inhibition of Monocarboxylate Transporter 1 Improves T-Cell Immunotherapy of Solid Tumors. <i>Advanced Healthcare Materials</i> , 2021 , 10, e2000549	10.1	14
22	Local carboplatin delivery and tissue distribution in livers after radiofrequency ablation. <i>Journal of Biomedical Materials Research Part B</i> , 2003 , 67, 510-6		13
21	Detection of Lymph Node Metastases by Ultra-pH-Sensitive Polymeric Nanoparticles. <i>Theranostics</i> , 2020 , 10, 3340-3350	12.1	12
20	Noninvasive monitoring of local drug release in a rabbit radiofrequency (RF) ablation model using X-ray computed tomography. <i>Journal of Controlled Release</i> , 2002 , 83, 415-25	11.7	12
19	Exploiting nanoscale cooperativity for precision medicine. <i>Advanced Drug Delivery Reviews</i> , 2020 , 158, 63-72	18.5	8
18	Lysosome-oriented, dual-stage pH-responsive polymeric micelles for Lapachone delivery. <i>Journal of Materials Chemistry B</i> , 2016 , 4, 7429-7440	7.3	7
17	Antigen folding improves loading efficiency and antitumor efficacy of PC7A nanoparticle vaccine. <i>Journal of Controlled Release</i> , 2021 , 329, 353-360	11.7	6
16	A Redox-Activatable Fluorescent Sensor for the High-Throughput Quantification of Cytosolic Delivery of Macromolecules. <i>Angewandte Chemie</i> , 2017 , 129, 1339-1343	3.6	5
15	Off-resonance saturation magnetic resonance imaging of superparamagnetic polymeric micelles. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2009 , 2009, 4095-7	0.9	4
14	Image-guided surgery for tumor agnostic detection of solid tumors using the pH-activated micellar imaging agent ONM-100.. <i>Journal of Clinical Oncology</i> , 2019 , 37, 3068-3068	2.2	3
13	Chaotropic-Anion-Induced Supramolecular Self-Assembly of Ionic Polymeric Micelles. <i>Angewandte Chemie</i> , 2014 , 126, 8212-8216	3.6	2
12	Polyvalent design in the cGAS-STING pathway.. <i>Seminars in Immunology</i> , 2021 , 56, 101580	10.7	2
11	NQO1 Bioactivatable Drugs Enhance Radiation Responses 2016 , 225-252		1
10	Theranostic Polymeric Micelles for Cancer Imaging and Therapy. <i>Nanostructure Science and Technology</i> , 2012 , 257-276	0.9	1
9	CLINICAL APPLICATIONS OF HEME BIOSYNTHETIC PATHWAY: Photodynamic Therapy with Protoporphyrin IX 2011 , 197-209		1
8	Surface energy induced patterning of polymer nanostructures for cancer diagnosis and therapy 2007 ,		1
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	3.8	1
6	Factors Associated with Lymph Node Count in Mucosal Squamous Cell Carcinoma Neck Dissection. <i>Laryngoscope</i> , 2021 , 131, 1516-1521	3.6	0

- 5 Quantitative phosphoproteomic analyses identify STK11IP as a lysosome-specific substrate of mTORC1 that regulates lysosomal acidification.. *Nature Communications*, **2022**, 13, 1760 17.4 ○
- 4 Intratumoral administration of STING-activating nanovaccine enhances T cell immunotherapy **2022**, 10, e003960 ○
- 3 TECHNIQUES IN X-RAY COMPUTED TOMOGRAPHY IN THE EVALUATION OF DRUG RELEASE SYSTEMS AND THEIR APPLICATION **2005**, 105-131
- 2 Cancer Therapy: Intratumoral Drug Delivery 1240-1257
- 1 P857 ONM-500 is a novel STING-activating therapeutic nanovaccine platform for cancer immunotherapy **2020**, 8, A7-A8