

Liangzhu Feng

List of Publications by Year in descending order

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Version: 2024-02-01

104
papers

21,208
citations

18482

62
h-index

28297

105
g-index

110
all docs

110
docs citations

110
times ranked

21038
citing authors

#	ARTICLE	IF	CITATIONS
1	Functional Nanomaterials for Phototherapies of Cancer. <i>Chemical Reviews</i> , 2014, 114, 10869-10939.	47.7	2,120
2	Nano-graphene in biomedicine: theranostic applications. <i>Chemical Society Reviews</i> , 2013, 42, 530-547.	38.1	1,483
3	Drug Delivery with PEGylated MoS ₂ Nano-sheets for Combined Photothermal and Chemotherapy of Cancer. <i>Advanced Materials</i> , 2014, 26, 3433-3440.	21.0	1,072
4	Photothermally Enhanced Photodynamic Therapy Delivered by Nano-Graphene Oxide. <i>ACS Nano</i> , 2011, 5, 7000-7009.	14.6	987
5	Intelligent Albumin-MnO ₂ Nanoparticles as pH/H ₂ O ₂ -Responsive Dissociable Nanocarriers to Modulate Tumor Hypoxia for Effective Combination Therapy. <i>Advanced Materials</i> , 2016, 28, 7129-7136.	21.0	882
6	Graphene in biomedicine: opportunities and challenges. <i>Nanomedicine</i> , 2011, 6, 317-324.	3.3	636
7	A functionalized graphene oxide-iron oxide nanocomposite for magnetically targeted drug delivery, photothermal therapy, and magnetic resonance imaging. <i>Nano Research</i> , 2012, 5, 199-212.	10.4	562
8	Graphene based gene transfection. <i>Nanoscale</i> , 2011, 3, 1252.	5.6	537
9	Ultrasound Triggered Tumor Oxygenation with Oxygen-Shuttle Nanoperfluorocarbon to Overcome Hypoxia-Associated Resistance in Cancer Therapies. <i>Nano Letters</i> , 2016, 16, 6145-6153.	9.1	509
10	H ₂ O ₂ -responsive liposomal nanoprobe for photoacoustic inflammation imaging and tumor theranostics via in vivo chromogenic assay. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 5343-5348.	7.1	445
11	Graphene Oxide-Silver Nanocomposite As a Highly Effective Antibacterial Agent with Species-Specific Mechanisms. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 3867-3874.	8.0	424
12	Synthesis of Hollow Biomineralized CaCO ₃ -Polydopamine Nanoparticles for Multimodal Imaging-Guided Cancer Photodynamic Therapy with Reduced Skin Photosensitivity. <i>Journal of the American Chemical Society</i> , 2018, 140, 2165-2178.	13.7	396
13	Ultrasmall Oxygen-Deficient Bimetallic Oxide MnWO _x Nanoparticles for Depletion of Endogenous GSH and Enhanced Sonodynamic Cancer Therapy. <i>Advanced Materials</i> , 2019, 31, e1900730.	21.0	387
14	Polyethylene Glycol and Polyethylenimine Dual-Functionalized Nano-Graphene Oxide for Photothermally Enhanced Gene Delivery. <i>Small</i> , 2013, 9, 1989-1997.	10.0	378
15	Combined local immunostimulatory radioisotope therapy and systemic immune checkpoint blockade imparts potent antitumour responses. <i>Nature Biomedical Engineering</i> , 2018, 2, 611-621.	22.5	374
16	Amplification of Tumor Oxidative Stresses with Liposomal Fenton Catalyst and Glutathione Inhibitor for Enhanced Cancer Chemotherapy and Radiotherapy. <i>Nano Letters</i> , 2019, 19, 805-815.	9.1	360
17	Theranostic Liposomes with Hypoxia-Activated Prodrug to Effectively Destruct Hypoxic Tumors Post-Photodynamic Therapy. <i>ACS Nano</i> , 2017, 11, 927-937.	14.6	358
18	Stimuli responsive drug delivery systems based on nano-graphene for cancer therapy. <i>Advanced Drug Delivery Reviews</i> , 2016, 105, 228-241.	13.7	352

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19	Smart Nanoreactors for pH-Responsive Tumor Homing, Mitochondria-Targeting, and Enhanced Photodynamic-Immunotherapy of Cancer. <i>Nano Letters</i> , 2018, 18, 2475-2484.	9.1	348
20	<i>In Vivo</i> Targeting and Imaging of Tumor Vasculature with Radiolabeled, Antibody-Conjugated Nanographene. <i>ACS Nano</i> , 2012, 6, 2361-2370.	14.6	318
21	Drug-Induced Self-Assembly of Modified Albumins as Nano-theranostics for Tumor-Targeted Combination Therapy. <i>ACS Nano</i> , 2015, 9, 5223-5233.	14.6	314
22	In vitro and in vivo behaviors of dextran functionalized graphene. <i>Carbon</i> , 2011, 49, 4040-4049.	10.3	305
23	Nanoscale Metal-Organic Particles with Rapid Clearance for Magnetic Resonance Imaging-Guided Photothermal Therapy. <i>ACS Nano</i> , 2016, 10, 2774-2781.	14.6	300
24	Preparation and functionalization of graphene nanocomposites for biomedical applications. <i>Nature Protocols</i> , 2013, 8, 2392-2403.	12.0	284
25	Hyaluronidase To Enhance Nanoparticle-Based Photodynamic Tumor Therapy. <i>Nano Letters</i> , 2016, 16, 2512-2521.	9.1	279
26	A Hypoxia-Responsive Albumin-Based Nanosystem for Deep Tumor Penetration and Excellent Therapeutic Efficacy. <i>Advanced Materials</i> , 2019, 31, e1901513.	21.0	263
27	Nanomedicine for tumor microenvironment modulation and cancer treatment enhancement. <i>Nano Today</i> , 2018, 21, 55-73.	11.9	259
28	The acidic tumor microenvironment: a target for smart cancer nano-theranostics. <i>National Science Review</i> , 2018, 5, 269-286.	9.5	250
29	Polydopamine Nanoparticles as a Versatile Molecular Loading Platform to Enable Imaging-guided Cancer Combination Therapy. <i>Theranostics</i> , 2016, 6, 1031-1042.	10.0	244
30	CaCO ₃ nanoparticles as an ultra-sensitive tumor-pH-responsive nanoplatform enabling real-time drug release monitoring and cancer combination therapy. <i>Biomaterials</i> , 2016, 110, 60-70.	11.4	227
31	Catalase-loaded cisplatin-prodrug-constructed liposomes to overcome tumor hypoxia for enhanced chemo-radiotherapy of cancer. <i>Biomaterials</i> , 2017, 138, 13-21.	11.4	214
32	Antigen-Loaded Upconversion Nanoparticles for Dendritic Cell Stimulation, Tracking, and Vaccination in Dendritic Cell-Based Immunotherapy. <i>ACS Nano</i> , 2015, 9, 6401-6411.	14.6	204
33	Surface Coating-Dependent Cytotoxicity and Degradation of Graphene Derivatives: Towards the Design of Non-Toxic, Degradable Nano-Graphene. <i>Small</i> , 2014, 10, 1544-1554.	10.0	201
34	Synthesis of CaCO ₃ -Based Nanomedicine for Enhanced Sonodynamic Therapy via Amplification of Tumor Oxidative Stress. <i>CheM</i> , 2020, 6, 1391-1407.	11.7	199
35	Glucose & oxygen exhausting liposomes for combined cancer starvation and hypoxia-activated therapy. <i>Biomaterials</i> , 2018, 162, 123-131.	11.4	196
36	G-Quadruplex-Based Nanoscale Coordination Polymers to Modulate Tumor Hypoxia and Achieve Nuclear-Targeted Drug Delivery for Enhanced Photodynamic Therapy. <i>Nano Letters</i> , 2018, 18, 6867-6875.	9.1	187

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37	Semiconducting polymer-based nanoparticles with strong absorbance in NIR-II window for in vivo photothermal therapy and photoacoustic imaging. <i>Biomaterials</i> , 2018, 155, 103-111.	11.4	180
38	Drug-induced co-assembly of albumin/catalase as smart nano-theranostics for deep intra-tumoral penetration, hypoxia relieve, and synergistic combination therapy. <i>Journal of Controlled Release</i> , 2017, 263, 79-89.	9.9	165
39	Near-infrared-light responsive nanoscale drug delivery systems for cancer treatment. <i>Coordination Chemistry Reviews</i> , 2016, 320-321, 100-117.	18.8	159
40	Cisplatin-Proneurodrug-Constructed Liposomes as a Versatile Theranostic Nanoplatform for Bimodal Imaging Guided Combination Cancer Therapy. <i>Advanced Functional Materials</i> , 2016, 26, 2207-2217.	14.9	159
41	Covalent Organic Polymers Based on Fluorinated Porphyrin as Oxygen Nanoshuttles for Tumor Hypoxia Relief and Enhanced Photodynamic Therapy. <i>Advanced Functional Materials</i> , 2018, 28, 1804901.	14.9	156
42	Near-Infrared Absorbing Polymeric Nanoparticles as a Versatile Drug Carrier for Cancer Combination Therapy. <i>Advanced Functional Materials</i> , 2013, 23, 6059-6067.	14.9	150
43	Smart pH-Responsive Nanocarriers Based on Nano-Graphene Oxide for Combined Chemo- and Photothermal Therapy Overcoming Drug Resistance. <i>Advanced Healthcare Materials</i> , 2014, 3, 1261-1271.	7.6	150
44	Light-Responsive, Singlet-Oxygen-Triggered On-Demand Drug Release from Photosensitizer-Doped Mesoporous Silica Nanorods for Cancer Combination Therapy. <i>Advanced Functional Materials</i> , 2016, 26, 4722-4732.	14.9	141
45	Iridium nanocrystals encapsulated liposomes as near-infrared light controllable nanozymes for enhanced cancer radiotherapy. <i>Biomaterials</i> , 2018, 181, 81-91.	11.4	131
46	Platinum Nanoparticles to Enable Electrodynamical Therapy for Effective Cancer Treatment. <i>Advanced Materials</i> , 2019, 31, e1806803.	21.0	130
47	Liposomes co-loaded with metformin and chlorin e6 modulate tumor hypoxia during enhanced photodynamic therapy. <i>Nano Research</i> , 2017, 10, 1200-1212.	10.4	128
48	Near-infrared light activation of quenched liposomal Ce6 for synergistic cancer phototherapy with effective skin protection. <i>Biomaterials</i> , 2017, 127, 13-24.	11.4	124
49	Near-infrared light and glucose dual-responsive cascading hydroxyl radical generation for in situ gelation and effective breast cancer treatment. <i>Biomaterials</i> , 2020, 228, 119568.	11.4	121
50	Renal-Clearable PEGylated Porphyrin Nanoparticles for Image-Guided Photodynamic Cancer Therapy. <i>Advanced Functional Materials</i> , 2017, 27, 1702928.	14.9	113
51	In vivo targeting of metastatic breast cancer via tumor vasculature-specific nano-graphene oxide. <i>Biomaterials</i> , 2016, 104, 361-371.	11.4	110
52	The advancing uses of nano-graphene in drug delivery. <i>Expert Opinion on Drug Delivery</i> , 2015, 12, 601-612.	5.0	104
53	Generation of Electrospun Nanofibers with Controllable Degrees of Crimping Through a Simple, Plasticizer-Based Treatment. <i>Advanced Materials</i> , 2015, 27, 2583-2588.	21.0	93
54	Functionalization of Graphene Oxide Generates a Unique Interface for Selective Serum Protein Interactions. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 1370-1377.	8.0	91

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55	Functionalized graphene oxide serves as a novel vaccine nano-adjuvant for robust stimulation of cellular immunity. <i>Nanoscale</i> , 2016, 8, 3785-3795.	5.6	87
56	Oxaliplatin-/NLG919 prodrugs-constructed liposomes for effective chemo-immunotherapy of colorectal cancer. <i>Biomaterials</i> , 2020, 255, 120190.	11.4	75
57	Nanoscale covalent organic polymers as a biodegradable nanomedicine for chemotherapy-enhanced photodynamic therapy of cancer. <i>Nano Research</i> , 2018, 11, 3244-3257.	10.4	74
58	One-pot synthesis of pH-responsive charge-switchable PEGylated nanoscale coordination polymers for improved cancer therapy. <i>Biomaterials</i> , 2018, 156, 121-133.	11.4	73
59	Tumor-killing nanoreactors fueled by tumor debris can enhance radiofrequency ablation therapy and boost antitumor immune responses. <i>Nature Communications</i> , 2021, 12, 4299.	12.8	72
60	Multilayer Dual-Polymer-Coated Upconversion Nanoparticles for Multimodal Imaging and Serum-Enhanced Gene Delivery. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 10381-10388.	8.0	67
61	Near-infrared light-activated cancer cell targeting and drug delivery with aptamer-modified nanostructures. <i>Nano Research</i> , 2016, 9, 139-148.	10.4	64
62	Comparison of nanomedicine-based chemotherapy, photodynamic therapy and photothermal therapy using reduced graphene oxide for the model system. <i>Biomaterials Science</i> , 2017, 5, 331-340.	5.4	63
63	Re-assessing the enhanced permeability and retention effect in peripheral arterial disease using radiolabeled long circulating nanoparticles. <i>Biomaterials</i> , 2016, 100, 101-109.	11.4	61
64	Long circulating reduced graphene oxide-iron oxide nanoparticles for efficient tumor targeting and multimodality imaging. <i>Nanoscale</i> , 2016, 8, 12683-12692.	5.6	58
65	Nanoparticle-mediated internal radioisotope therapy to locally increase the tumor vasculature permeability for synergistically improved cancer therapies. <i>Biomaterials</i> , 2019, 197, 368-379.	11.4	58
66	Perfluorocarbon loaded fluorinated covalent organic polymers with effective sonosensitization and tumor hypoxia relief enable synergistic sonodynamic-immunotherapy. <i>Biomaterials</i> , 2022, 280, 121250.	11.4	57
67	Coordination Polymer-Coated CaCO ₃ Reinforces Radiotherapy by Reprogramming the Immunosuppressive Metabolic Microenvironment. <i>Advanced Materials</i> , 2022, 34, e2106520.	21.0	54
68	Photosensitizer Decorated Red Blood Cells as an Ultrasensitive Light-Responsive Drug Delivery System. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 5855-5863.	8.0	53
69	Accelerated Blood Clearance Phenomenon Reduces the Passive Targeting of PEGylated Nanoparticles in Peripheral Arterial Disease. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 17955-17963.	8.0	48
70	Iodine-131-labeled, transferrin-capped polypyrrole nanoparticles for tumor-targeted synergistic photothermal-radioisotope therapy. <i>Biomaterials Science</i> , 2017, 5, 1828-1835.	5.4	48
71	Surfactant-Stripped Micelles of Near Infrared Dye and Paclitaxel for Photoacoustic Imaging Guided Photothermal-Chemotherapy. <i>Small</i> , 2018, 14, e1802991.	10.0	47
72	Ultrasound-Responsive Conversion of Microbubbles to Nanoparticles to Enable Background-Free in Vivo Photoacoustic Imaging. <i>Nano Letters</i> , 2019, 19, 8109-8117.	9.1	47

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73	Fabrication of H ₂ O ₂ -driven nanoreactors for innovative cancer treatments. <i>Nanoscale</i> , 2019, 11, 16164-16186.	5.6	46
74	CaCO ₃ -Assisted Preparation of pH-Responsive Immune-Modulating Nanoparticles for Augmented Chemo-Immunotherapy. <i>Nano-Micro Letters</i> , 2021, 13, 29.	27.0	46
75	Core-shell TaOx@MnO ₂ nanoparticles as a nano-radiosensitizer for effective cancer radiotherapy. <i>Journal of Materials Chemistry B</i> , 2018, 6, 2250-2257.	5.8	45
76	Metal-polyphenol-network coated CaCO ₃ as pH-responsive nanocarriers to enable effective intratumoral penetration and reversal of multidrug resistance for augmented cancer treatments. <i>Nano Research</i> , 2020, 13, 3057-3067.	10.4	40
77	Platinum nanoworms for imaging-guided combined cancer therapy in the second near-infrared window. <i>Journal of Materials Chemistry B</i> , 2018, 6, 5069-5079.	5.8	39
78	Patterned Substrates of Nano-Graphene Oxide Mediating Highly Localized and Efficient Gene Delivery. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 5900-5907.	8.0	36
79	Graphene Oxide Selectively Enhances Thermostability of Trypsin. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 12270-12277.	8.0	35
80	Red-blood-cell-membrane-enveloped magnetic nanoclusters as a biomimetic theranostic nanoplatform for bimodal imaging-guided cancer photothermal therapy. <i>Journal of Materials Chemistry B</i> , 2020, 8, 803-812.	5.8	35
81	Dual-Polymer-Functionalized Nanoscale Graphene Oxide as a Highly Effective Gene Transfection Agent for Insect Cells with Cell-Type-Dependent Cellular Uptake Mechanisms. <i>Particle and Particle Systems Characterization</i> , 2013, 30, 794-803.	2.3	34
82	Reactive Oxygen Species-Scavenging Scaffold with Rapamycin for Treatment of Intervertebral Disk Degeneration. <i>Advanced Healthcare Materials</i> , 2020, 9, e1901186.	7.6	33
83	Hybrid Protein Nano-Reactors Enable Simultaneous Increments of Tumor Oxygenation and Iodine-131 Delivery for Enhanced Radionuclide Therapy. <i>Small</i> , 2019, 15, e1903628.	10.0	32
84	Ferrous ions doped calcium carbonate nanoparticles potentiate chemotherapy by inducing ferroptosis. <i>Journal of Controlled Release</i> , 2022, 348, 346-356.	9.9	31
85	Supramolecular self-assembly enhanced europium(iii) luminescence under visible light. <i>Soft Matter</i> , 2014, 10, 4686.	2.7	29
86	Intratumoral delivery of M-CSF by calcium crosslinked polymer micelles enhances cancer immunotherapy. <i>Biomaterials Science</i> , 2019, 7, 2769-2776.	5.4	26
87	Surfactant-stripped J-aggregates of azaBODIPY derivatives: All-in-one phototheranostics in the second near infrared window. <i>Journal of Controlled Release</i> , 2020, 326, 256-264.	9.9	26
88	Protein-drug conjugate programmed by pH-reversible linker for tumor hypoxia relief and enhanced cancer combination therapy. <i>International Journal of Pharmaceutics</i> , 2020, 582, 119321.	5.2	26
89	Perfluorocarbon nanodroplets stabilized with cisplatin-prodrug-constructed lipids enable efficient tumor oxygenation and chemo-radiotherapy of cancer. <i>Nanoscale</i> , 2020, 12, 14764-14774.	5.6	25
90	Immunogenic nanomedicine based on GSH-responsive nanoscale covalent organic polymers for chemo-sonodynamic therapy. <i>Biomaterials</i> , 2022, 283, 121428.	11.4	25

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91	Construction of Enzyme Nanoreactors to Enable Tumor Microenvironment Modulation and Enhanced Cancer Treatment. <i>Advanced Healthcare Materials</i> , 2021, 10, e2001167.	7.6	23
92	The advantage of reversible coordination polymers in producing visible light sensitized Eu(III) emissions over EDTA via excluding water from the coordination sphere. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 16641.	2.8	20
93	Seeded Growth of Cu ₂ S Nanocrystals and Their Size-Dependent Phototherapeutic Effect. <i>ACS Applied Nano Materials</i> , 2018, 1, 3303-3311.	5.0	19
94	Photodynamic creation of artificial tumor microenvironments to collectively facilitate hypoxia-activated chemotherapy delivered by coagulation-targeting liposomes. <i>Chemical Engineering Journal</i> , 2021, 414, 128731.	12.7	18
95	MSCs-engineered biomimetic PMAA nanomedicines for multiple bioimaging-guided and photothermal-enhanced radiotherapy of NSCLC. <i>Journal of Nanobiotechnology</i> , 2021, 19, 80.	9.1	17
96	Functionalized graphene oxide triggers cell cycle checkpoint control through both the ATM and the ATR signaling pathways. <i>Carbon</i> , 2018, 129, 495-503.	10.3	15
97	CaCO ₃ -Encapsulated Microspheres for Enhanced Transhepatic Arterial Embolization Treatment of Hepatocellular Carcinoma. <i>Advanced Healthcare Materials</i> , 2021, 10, e2100748.	7.6	15
98	Phenolic molecules constructed nanomedicine for innovative cancer treatment. <i>Coordination Chemistry Reviews</i> , 2021, 439, 213912.	18.8	15
99	Molecular domino reactor built by automated modular synthesis for cancer treatment. <i>Theranostics</i> , 2020, 10, 4030-4041.	10.0	14
100	Synthesis of a UCNPs@SiO ₂ @gadofullerene nanocomposite and its application in UCL/MR bimodal imaging. <i>RSC Advances</i> , 2016, 6, 98968-98974.	3.6	13
101	Lipid-Coated CaCO ₃ Nanoparticles as a Versatile pH-Responsive Drug Delivery Platform to Enable Combined Chemotherapy of Breast Cancer. <i>ACS Applied Bio Materials</i> , 2022, 5, 1194-1201.	4.6	13
102	Percutaneous implantation of ethanol fueled catalytic hydrogel suppresses tumor growth by triggering ferroptosis. <i>Materials Today</i> , 2022, 55, 7-20.	14.2	12
103	pH-responsive nanomedicine co-encapsulated with Erlotinib and chlorin e6 can enable effective treatment of triple negative breast cancer via reprogramming tumor vasculature. <i>Chemical Engineering Journal</i> , 2022, 437, 135305.	12.7	11
104	Lipid-coated CaCO ₃ -PDA nanoparticles as a versatile nanocarrier to enable pH-responsive dual modal imaging-guided combination cancer therapy. <i>Journal of Materials Chemistry B</i> , 2022, 10, 4096-4104.	5.8	4