

Yiyao Liu

List of Publications by Citations

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102
papers

3,064
citations

30
h-index

52
g-index

112
ext. papers

3,673
ext. citations

7
avg, IF

5.26
L-index

#	Paper	IF	Citations
102	Nanomedicine for drug delivery and imaging: a promising avenue for cancer therapy and diagnosis using targeted functional nanoparticles. <i>International Journal of Cancer</i> , 2007 , 120, 2527-37	7.5	485
101	Encapsulated ultrasound microbubbles: therapeutic application in drug/gene delivery. <i>Journal of Controlled Release</i> , 2006 , 114, 89-99	11.7	244
100	Recent advancements in mesoporous silica nanoparticles towards therapeutic applications for cancer. <i>Acta Biomaterialia</i> , 2019 , 89, 1-13	10.8	98
99	Chemo-photodynamic combined gene therapy and dual-modal cancer imaging achieved by pH-responsive alginate/chitosan multilayer-modified magnetic mesoporous silica nanocomposites. <i>Biomaterials Science</i> , 2017 , 5, 1001-1013	7.4	94
98	Notch signaling pathway networks in cancer metastasis: a new target for cancer therapy. <i>Medical Oncology</i> , 2017 , 34, 180	3.7	91
97	Ultrasound: mechanical gene transfer into plant cells by sonoporation. <i>Biotechnology Advances</i> , 2006 , 24, 1-16	17.8	80
96	Mechanosensitive caveolin-1 activation-induced PI3K/Akt/mTOR signaling pathway promotes breast cancer motility, invadopodia formation and metastasis in vivo. <i>Oncotarget</i> , 2016 , 7, 16227-47	3.3	76
95	Emodin suppresses lipopolysaccharide-induced pro-inflammatory responses and NF- κ B activation by disrupting lipid rafts in CD14-negative endothelial cells. <i>British Journal of Pharmacology</i> , 2010 , 161, 1628-44	8.6	73
94	Folate-Functionalized Magnetic-Mesoporous Silica Nanoparticles for Drug/Gene Codelivery To Potentiate the Antitumor Efficacy. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 13748-58	9.5	71
93	Notch-1 signaling promotes the malignant features of human breast cancer through NF- κ B activation. <i>PLoS ONE</i> , 2014 , 9, e95912	3.7	65
92	Synergistic anticancer activity of photo- and chemoresponsive nanoformulation based on polylysine-functionalized graphene. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 21615-23	9.5	60
91	Highly efficient cascading synergy of cancer photo-immunotherapy enabled by engineered graphene quantum dots/photosensitizer/CpG oligonucleotides hybrid nanotheranostics. <i>Biomaterials</i> , 2019 , 205, 106-119	15.6	59
90	Roles for GP IIb/IIIa and α 5 β 1 integrins in MDA-MB-231 cell invasion and shear flow-induced cancer cell mechanotransduction. <i>Cancer Letters</i> , 2014 , 344, 62-73	9.9	58
89	Multifunctional core/shell nanoparticles cross-linked polyetherimide-folic acid as efficient Notch-1 siRNA carrier for targeted killing of breast cancer. <i>Scientific Reports</i> , 2014 , 4, 7072	4.9	57
88	MCP-1-induced ERK/GSK-3 β /Snail signaling facilitates the epithelial-mesenchymal transition and promotes the migration of MCF-7 human breast carcinoma cells. <i>Cellular and Molecular Immunology</i> , 2017 , 14, 621-630	15.4	55
87	Multifunctional PLGA Nanobubbles as Theranostic Agents: Combining Doxorubicin and P-gp siRNA Co-Delivery Into Human Breast Cancer Cells and Ultrasound Cellular Imaging. <i>Journal of Biomedical Nanotechnology</i> , 2015 , 11, 2124-36	4	50
86	Single wavelength light-mediated, synergistic bimodal cancer photoablation and amplified photothermal performance by graphene/gold nanostar/photosensitizer theranostics. <i>Acta Biomaterialia</i> , 2017 , 53, 631-642	10.8	49

85	Copper depletion inhibits CoCl ₂ -induced aggressive phenotype of MCF-7 cells via downregulation of HIF-1 and inhibition of Snail/Twist-mediated epithelial-mesenchymal transition. <i>Scientific Reports</i> , 2015 , 5, 12410	4.9	49
84	Novel drug delivery system of hollow mesoporous silica nanocapsules with thin shells; preparation and fluorescein isothiocyanate (FITC) release kinetics. <i>Colloids and Surfaces B: Biointerfaces</i> , 2007 , 58, 180-7	6	48
83	Luminescent/magnetic PLGA-based hybrid nanocomposites: a smart nanocarrier system for targeted codelivery and dual-modality imaging in cancer theranostics. <i>International Journal of Nanomedicine</i> , 2017 , 12, 4299-4322	7.3	40
82	VCAM-1-targeted core/shell nanoparticles for selective adhesion and delivery to endothelial cells with lipopolysaccharide-induced inflammation under shear flow and cellular magnetic resonance imaging in vitro. <i>International Journal of Nanomedicine</i> , 2013 , 8, 1897-906	7.3	40
81	Polyetherimide-grafted Fe ₃ O ₄ @SiO ₂ nanoparticles as theranostic agents for simultaneous VEGF siRNA delivery and magnetic resonance cell imaging. <i>International Journal of Nanomedicine</i> , 2015 , 10, 4279-91	7.3	38
80	ROCK isoforms differentially modulate cancer cell motility by mechanosensing the substrate stiffness. <i>Acta Biomaterialia</i> , 2019 , 88, 86-101	10.8	36
79	Effects of ultrasound on the growth and vacuolar H ⁺ -ATPase activity of aloe arborescens callus cells. <i>Colloids and Surfaces B: Biointerfaces</i> , 2003 , 32, 105-116	6	36
78	"Triple-Punch" Anticancer Strategy Mediated by Near-Infrared Photosensitizer/CpG Oligonucleotides Dual-Dressed and Mitochondria-Targeted Nanographene. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 6942-6955	9.5	34
77	Involvement of caveolin-1 in low shear stress-induced breast cancer cell motility and adhesion: Roles of FAK/Src and ROCK/p-MLC pathways. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2017 , 1864, 12-22	4.9	33
76	Investigation of folate-conjugated fluorescent silica nanoparticles for targeting delivery to folate receptor-positive tumors and their internalization mechanism. <i>International Journal of Nanomedicine</i> , 2011 , 6, 2023-32	7.3	33
75	Copper-64 Labeled PEGylated Exosomes for In Vivo Positron Emission Tomography and Enhanced Tumor Retention. <i>Bioconjugate Chemistry</i> , 2019 , 30, 2675-2683	6.3	32
74	Silica nanoparticles as promising drug/gene delivery carriers and fluorescent nano-probes: recent advances. <i>Current Cancer Drug Targets</i> , 2011 , 11, 156-63	2.8	32
73	Mechanics and Actomyosin-Dependent Survival/Chemoresistance of Suspended Tumor Cells in Shear Flow. <i>Biophysical Journal</i> , 2019 , 116, 1803-1814	2.9	31
72	Notch-1 signaling activates NF- κ B in human breast carcinoma MDA-MB-231 cells via PP2A-dependent AKT pathway. <i>Medical Oncology</i> , 2016 , 33, 33	3.7	29
71	The roles of platelet GPIIb/IIIa and α v β 3 integrins during HeLa cells adhesion, migration, and invasion to monolayer endothelium under static and dynamic shear flow. <i>Journal of Biomedicine and Biotechnology</i> , 2009 , 2009, 829243		28
70	Phosphatidic Acid Produced by RalA-activated PLD2 Stimulates Caveolae-mediated Endocytosis and Trafficking in Endothelial Cells. <i>Journal of Biological Chemistry</i> , 2016 , 291, 20729-38	5.4	27
69	Photosensitizer-assembled PEGylated graphene-copper sulfide nano hybrids as a synergistic near-infrared phototherapeutic agent. <i>Expert Opinion on Drug Delivery</i> , 2016 , 13, 155-65	8	26
68	NIR-Light-Triggered Anticancer Strategy for Dual-Modality Imaging-Guided Combination Therapy via a Bioinspired Hybrid PLGA Nanoplatform. <i>Molecular Pharmaceutics</i> , 2019 , 16, 1367-1384	5.6	26

67	A carcinoembryonic antigen optoelectronic immunosensor based on thiol-derivative-nanogold labeled anti-CEA antibody nanomaterial and gold modified ITO. <i>Sensors and Actuators B: Chemical</i> , 2015 , 221, 22-27	8.5	25
66	Polymeric microbubbles for ultrasonic molecular imaging and targeted therapeutics. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2011 , 22, 417-28	3.5	25
65	Bacteriophytochromes control conjugation in <i>Agrobacterium fabrum</i> . <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2016 , 161, 192-9	6.7	25
64	PLGA-Based Drug Delivery Systems for Remotely Triggered Cancer Therapeutic and Diagnostic Applications. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020 , 8, 381	5.8	24
63	The synergistic effects of CXCR4 and EGFR on promoting EGF-mediated metastasis in ovarian cancer cells. <i>Colloids and Surfaces B: Biointerfaces</i> , 2007 , 60, 1-6	6	24
62	Quantum dots encoded white-emitting polymeric superparticles for simultaneous detection of multiple heavy metal ions. <i>Journal of Hazardous Materials</i> , 2021 , 405, 124263	12.8	23
61	Surface chemistry induces mitochondria-mediated apoptosis of breast cancer cells via PTEN/PI3K/AKT signaling pathway. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2018 , 1865, 172-185	4.9	22
60	Effects of vascular endothelial growth factor (VEGF) and chondroitin sulfate A on human monocytic THP-1 cell migration. <i>Colloids and Surfaces B: Biointerfaces</i> , 2005 , 43, 216-20	6	22
59	Multifunctional nanoparticles of Fe(3)O(4)@SiO(2)(FITC)/PAH conjugated the recombinant plasmid of pIRSE2-EGFP/VEGF(165) with dual functions for gene delivery and cellular imaging. <i>Expert Opinion on Drug Delivery</i> , 2012 , 9, 1197-207	8	21
58	Shear stress promotes anoikis resistance of cancer cells via caveolin-1-dependent extrinsic and intrinsic apoptotic pathways. <i>Journal of Cellular Physiology</i> , 2019 , 234, 3730-3743	7	21
57	Polymeric Hybrid Nanomicelles for Cancer Theranostics: An Efficient and Precise Anticancer Strategy for the Codelivery of Doxorubicin/miR-34a and Magnetic Resonance Imaging. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 43865-43878	9.5	20
56	Adhesion of bio-functionalized ultrasound microbubbles to endothelial cells by targeting to vascular cell adhesion molecule-1 under shear flow. <i>International Journal of Nanomedicine</i> , 2011 , 6, 2043-51	7.3	20
55	Matrix stiffness modulates ILK-mediated YAP activation to control the drug resistance of breast cancer cells. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2020 , 1866, 165625	6.9	20
54	Low shear stress induces ERK nuclear localization and YAP activation to control the proliferation of breast cancer cells. <i>Biochemical and Biophysical Research Communications</i> , 2019 , 510, 219-223	3.4	19
53	Charge-reversal-functionalized PLGA nanobubbles as theranostic agents for ultrasonic-imaging-guided combination therapy. <i>Biomaterials Science</i> , 2018 , 6, 2426-2439	7.4	19
52	Poly(D,L-lactide-co-glycolide) nanoparticles encapsulated fluorescent isothiocyanate and paclitaxol: preparation, release kinetics and anticancer effect. <i>Journal of Nanoscience and Nanotechnology</i> , 2009 , 9, 282-7	1.3	19
51	A biochemical network controlling basal myosin oscillation. <i>Nature Communications</i> , 2018 , 9, 1210	17.4	18
50	Dual-Mode Fluorescence and Magnetic Resonance Imaging Nanoprobe Based on Aromatic Amphiphilic Copolymer Encapsulated CdSe@CdS and FeO.. <i>ACS Applied Bio Materials</i> , 2018 , 1, 520-528	4.1	18

49	Development and optimization of doxorubicin loaded poly(lactic-co-glycolic acid) nanobubbles for drug delivery into HeLa cells. <i>Journal of Nanoscience and Nanotechnology</i> , 2014 , 14, 2947-54	1.3	18
48	Core/shell Fe ₃ O ₄ @SiO ₂ nanoparticles modified with PAH as a vector for EGFP plasmid DNA delivery into HeLa cells. <i>Macromolecular Bioscience</i> , 2011 , 11, 1563-9	5.5	17
47	Acidic pH regulates cytoskeletal dynamics through conformational integrin β activation and promotes membrane protrusion. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2018 , 1864, 2395-2408	6.9	14
46	Cell Membrane Coated-Biomimetic Nanoplatfoms Toward Cancer Theranostics. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020 , 8, 371	5.8	13
45	Chitosan hybrid nanoparticles as a theranostic platform for targeted doxorubicin/VEGF shRNA co-delivery and dual-modality fluorescence imaging. <i>RSC Advances</i> , 2016 , 6, 29685-29696	3.7	13
44	Effect of ultrasonic exposure on Ca ²⁺ -ATPase activity in plasma membrane from Aloe arborescens callus cells. <i>Ultrasonics Sonochemistry</i> , 2006 , 13, 232-6	8.9	13
43	Rational Design of Multifunctional Polymeric Micelles with Stimuli-Responsive for Imaging-Guided Combination Cancer Therapy. <i>Journal of Biomedical Nanotechnology</i> , 2017 , 13, 1221-1234	4	12
42	Behavior of fluorescent molecules bound to the interior of silica nanocapsules in various solvents. <i>Journal of Colloid and Interface Science</i> , 2009 , 331, 507-13	9.3	11
41	Multistage-responsive nanovehicle to improve tumor penetration for dual-modality imaging-guided photodynamic-immunotherapy. <i>Biomaterials</i> , 2021 , 275, 120990	15.6	11
40	Essential oils from Inula japonica and Angelicae dahuricae enhance sensitivity of MCF-7/ADR breast cancer cells to doxorubicin via multiple mechanisms. <i>Journal of Ethnopharmacology</i> , 2016 , 180, 18-27	5	10
39	Acid-Triggered Charge-Convertible Graphene-Based All-in-One Nanocomplex for Enhanced Genetic Phototherapy of Triple-Negative Breast Cancer. <i>Advanced Healthcare Materials</i> , 2020 , 9, e1901187	10.1	10
38	A versatile nanoplatfom for synergistic chemo-photothermal therapy and multimodal imaging against breast cancer. <i>Expert Opinion on Drug Delivery</i> , 2020 , 17, 725-733	8	9
37	Thermosensitive Biodegradable Copper Sulfide Nanoparticles for Real-Time Multispectral Optoacoustic Tomography. <i>ACS Applied Bio Materials</i> , 2019 , 2, 3203-3211	4.1	9
36	Dendrimer-Functionalized Superparamagnetic Nanobeacons for Real-Time Detection and Depletion of HSP90 α mRNA and MR Imaging. <i>Theranostics</i> , 2019 , 9, 5784-5796	12.1	9
35	Probing the protein conformation and adsorption behaviors in nanographene oxide-protein complexes. <i>Journal of Nanoscience and Nanotechnology</i> , 2014 , 14, 2591-8	1.3	9
34	Shear stress stimulates integrin β trafficking and increases directional migration of cancer cells via promoting deacetylation of microtubules. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2020 , 1867, 118676	4.9	8
33	Investigation of the Mechanical Properties of the Human Osteosarcoma Cell at Different Cell Cycle Stages \square <i>Micromachines</i> , 2017 , 8, 89	3.3	8
32	Soft Substrate Promotes Osteosarcoma Cell Self-Renewal, Differentiation, and Drug Resistance Through miR-29b and Its Target Protein Spin 1. <i>ACS Biomaterials Science and Engineering</i> , 2020 , 6, 5588-5598	5.5	8

31	Irinotecan/IR-820 coloaded nanocomposite as a cooperative nanoplatform for combinational therapy of tumor. <i>Nanomedicine</i> , 2018 , 13, 595-603	5.6	7
30	Simultaneous 2D and 3D cell culture array for multicellular geometry, drug discovery and tumor microenvironment reconstruction. <i>Biofabrication</i> , 2021 , 13,	10.5	7
29	Aptamer-Dendrimer Functionalized Magnetic Nano-Octahedrons: Theranostic Drug/Gene Delivery Platform for Near-Infrared/Magnetic Resonance Imaging-Guided Magnetochemotherapy. <i>ACS Nano</i> , 2021 , 15, 16683-16696	16.7	7
28	Structural and Physical Properties of Magnetron Co-sputtered Silver Containing Hydroxyapatite Coatings on Titanium Substrates. <i>Integrated Ferroelectrics</i> , 2015 , 163, 64-72	0.8	6
27	Facile fabrication of white-emitting hybrid colloids and nanocomposite films using CdSe/CdS quantum dots and zinc phthalocyanines as building blocks. <i>Synthetic Metals</i> , 2016 , 218, 9-18	3.6	5
26	Recent Advancements in Serum Albumin-Based Nanovehicles Toward Potential Cancer Diagnosis and Therapy. <i>Frontiers in Chemistry</i> , 2021 , 9, 746646	5	4
25	The tumor biochemical and biophysical microenvironments synergistically contribute to cancer cell malignancy. <i>Cellular and Molecular Immunology</i> , 2020 , 17, 1186-1187	15.4	4
24	Cytotoxicity of Metal-Based Nanoparticles: From Mechanisms and Methods of Evaluation to Pathological Manifestations.. <i>Advanced Science</i> , 2022 , e2106049	13.6	4
23	Co-delivery of doxorubicin and P-gp siRNA into human breast cancer cells by functionalized PLGA nanobubbles and ultrasound imaging in vitro. <i>Journal of Controlled Release</i> , 2015 , 213, e138	11.7	3
22	Specific adhesion and accumulation of VCAM-1-targeted ultrasound microbubbles to inflammatory endothelial cells under hemodynamic shear flow simulation. <i>Journal of Controlled Release</i> , 2011 , 152 Suppl 1, e227-9	11.7	3
21	Influence of parenteral fat emulsion Intralipos and citric acid on blood viscosity and erythrocyte morphology in vitro. <i>Colloids and Surfaces B: Biointerfaces</i> , 2006 , 53, 51-4	6	3
20	Protective autophagy attenuates soft substrate-induced apoptosis through ROS/JNK signaling pathway in breast cancer cells. <i>Free Radical Biology and Medicine</i> , 2021 , 172, 590-603	7.8	3
19	Tirapazamine encapsulated hyaluronic acid nanomicelles realized targeted and efficient photo-bioreductive cascading cancer therapy. <i>Chinese Chemical Letters</i> , 2021 , 32, 2400-2404	8.1	3
18	Notch-1 signaling promotes reattachment of suspended cancer cells by cdc42-dependent microtentacles formation. <i>Cancer Science</i> , 2021 , 112, 4894-4908	6.9	3
17	Recent Advancements in Nanosystem-Based Molecular Beacons for RNA Detection and Imaging. <i>ACS Applied Nano Materials</i> , 2022 , 5, 3065-3086	5.6	3
16	Preparation, characterization and release of methyl viologen from a novel nanoparticle delivery system with double shells of silica and PLGA. <i>Science Bulletin</i> , 2010 , 55, 263-267		2
15	Light-responsive hyaluronic acid nanomicelles co-loaded with an IDO inhibitor focus targeted photoimmunotherapy against "immune cold" cancer. <i>Biomaterials Science</i> , 2021 , 9, 8019-8031	7.4	2
14	Tertiary Base Triple Formation in the SRV-1 Frameshifting Pseudoknot Stabilizes Secondary Structure Components. <i>Biochemistry</i> , 2020 , 59, 4429-4438	3.2	2

13	Nanoparticle-mediated specific elimination of soft cancer stem cells by targeting low cell stiffness. <i>Acta Biomaterialia</i> , 2021 , 135, 493-505	10.8	2
12	Caveolin-1 controls mitochondrial damage and ROS production by regulating fission - fusion dynamics and mitophagy.. <i>Redox Biology</i> , 2022 , 52, 102304	11.3	2
11	Remodeling tumor immunosuppressive microenvironment via a novel bioactive nanovaccines potentiates the efficacy of cancer immunotherapy.. <i>Bioactive Materials</i> , 2022 , 16, 107-119	16.7	2
10	Cascade-activatable NO release based on GSH-detonated nanobomb for multi-pathways cancer therapy. <i>Materials Today Bio</i> , 2022 , 100288	9.9	2
9	Comparative analysis of the structural and physical properties of magnetron Co-sputtered Ag-doped and Si-doped hydroxyapatite coatings on titanium substrates. <i>Integrated Ferroelectrics</i> , 2017 , 180, 69-76	0.8	1
8	Engineered Mesenchymal Stem Cells as a Biotherapy Platform for Targeted Photodynamic Immunotherapy of Breast Cancer.. <i>Advanced Healthcare Materials</i> , 2022 , e2101375	10.1	1
7	Non-muscle myosin II isoforms orchestrate substrate stiffness sensing to promote cancer cell contractility and migration. <i>Cancer Letters</i> , 2022 , 524, 245-258	9.9	1
6	Unveiling the Mechanotransduction Mechanism of Substrate Stiffness-modulated Cancer Cell Motility via ROCK1 and ROCK2 Differentially Regulated Manner. <i>FASEB Journal</i> , 2019 , 33, 644.4	0.9	0
5	Shear stress triggered circular dorsal ruffles formation to facilitate cancer cell migration. <i>Archives of Biochemistry and Biophysics</i> , 2021 , 709, 108967	4.1	0
4	Cooperative Treatment of Breast Cancer Using an Irinotecan/IR-820 Co-loaded Hollow Mesoporous Silica Nanoparticles Nanoplatform. <i>FASEB Journal</i> , 2018 , 32, 801.2	0.9	
3	The hybrid PLGA-based nanoparticles as a smart nanoplatform for imaging-guided and near-Infrared light-triggered combination cancer therapy. <i>FASEB Journal</i> , 2018 , 32, 801.1	0.9	
2	Molecular Beacon-based Fluorescence Magnetic Nanoprobes for Tumor-related HSP90 mRNA In-suit Detection and Imaging. <i>FASEB Journal</i> , 2019 , 33, 785.6	0.9	
1	Phototherapy: Acid-Triggered Charge-Convertible Graphene-Based All-in-One Nanocomplex for Enhanced Genetic Phototherapy of Triple-Negative Breast Cancer (Adv. Healthcare Mater. 1/2020). <i>Advanced Healthcare Materials</i> , 2020 , 9, 2070003	10.1	