

Hong Yang

List of Publications by Year in descending order

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76
papers

2,422
citations

186265

28
h-index

223800

46
g-index

78
all docs

78
docs citations

78
times ranked

3723
citing authors

#	ARTICLE	IF	CITATIONS
1	Modulating hypoxia inducible factor by nanomaterials for effective cancer therapy. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2022, 14, e1766.	6.1	9
2	Non-muscle myosin II isoforms orchestrate substrate stiffness sensing to promote cancer cell contractility and migration. Cancer Letters, 2022, 524, 245-258.	7.2	16
3	Engineered Mesenchymal Stem Cells as a Biotherapy Platform for Targeted Photodynamic Immunotherapy of Breast Cancer. Advanced Healthcare Materials, 2022, 11, e2101375.	7.6	10
4	A porphyrin-based metallacage for enhanced photodynamic therapy. Nanoscale, 2022, 14, 6373-6383.	5.6	19
5	Recent Advancements in Nanosystem-Based Molecular Beacons for RNA Detection and Imaging. ACS Applied Nano Materials, 2022, 5, 3065-3086.	5.0	14
6	Remodeling tumor immunosuppressive microenvironment via a novel bioactive nanovaccines potentiates the efficacy of cancer immunotherapy. Bioactive Materials, 2022, 16, 107-119.	15.6	24
7	Glutathione-Responsive Chemodynamic Therapy of Manganese(III/IV) Cluster Nanoparticles Enhanced by Electrochemical Stimulation via Oxidative Stress Pathway. Bioconjugate Chemistry, 2022, 33, 152-163.	3.6	6
8	Functions and clinical significance of mechanical tumor microenvironment: cancer cell sensing, mechanobiology and metastasis. Cancer Communications, 2022, 42, 374-400.	9.2	21
9	Simultaneous 2D and 3D cell culture array for multicellular geometry, drug discovery and tumor microenvironment reconstruction. Biofabrication, 2021, 13, 045013.	7.1	23
10	Protective autophagy attenuates soft substrate-induced apoptosis through ROS/JNK signaling pathway in breast cancer cells. Free Radical Biology and Medicine, 2021, 172, 590-603.	2.9	14
11	Multistage-responsive nanovehicle to improve tumor penetration for dual-modality imaging-guided photodynamic-immunotherapy. Biomaterials, 2021, 275, 120990.	11.4	33
12	Tumor Microenvironment-Activated Nanoparticles Loaded with an Iron-Carbonyl Complex for Chemodynamic Immunotherapy of Lung Metastasis of Melanoma <i>In Vivo</i> . ACS Applied Materials & Interfaces, 2021, 13, 39100-39111.	8.0	24
13	Aptamer-Dendrimer Functionalized Magnetic Nano-Octahedrons: Theranostic Drug/Gene Delivery Platform for Near-Infrared/Magnetic Resonance Imaging-Guided Magnetochemotherapy. ACS Nano, 2021, 15, 16683-16696.	14.6	35
14	Shear stress triggered circular dorsal ruffles formation to facilitate cancer cell migration. Archives of Biochemistry and Biophysics, 2021, 709, 108967.	3.0	7
15	Notch signaling promotes reattachment of suspended cancer cells by cdc42-dependent microtentacles formation. Cancer Science, 2021, 112, 4894-4908.	3.9	5
16	Light-responsive hyaluronic acid nanomicelles co-loaded with an IDO inhibitor focus targeted photoimmunotherapy against immune cold cancer. Biomaterials Science, 2021, 9, 8019-8031.	5.4	18
17	Activated Platelet-Homing Nanoplatform for Targeting Magnetic Resonance Imaging of Aneurysm-Related Thrombus in Rabbits. ACS Applied Materials & Interfaces, 2021, 13, 50705-50715.	8.0	2
18	The tumor biochemical and biophysical microenvironments synergistically contribute to cancer cell malignancy. Cellular and Molecular Immunology, 2020, 17, 1186-1187.	10.5	8

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19	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). Advanced Healthcare Materials, 2020, 9, 2070003.	7.6	0
20	Ultrasound-Enhanced Generation of Reactive Oxygen Species for MRI-Guided Tumor Therapy by the Fe ₃ O ₄ -Based Peroxidase-Mimicking Nanozyme. ACS Applied Bio Materials, 2020, 3, 639-647.	4.6	23
21	Matrix stiffness modulates ILK-mediated YAP activation to control the drug resistance of breast cancer cells. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2020, 1866, 165625.	3.8	54
22	Acid-Triggered Charge-Convertible Graphene-Based All-in-One Nanocomplex for Enhanced Genetic Phototherapy of Triple-Negative Breast Cancer. Advanced Healthcare Materials, 2020, 9, e1901187.	7.6	21
23	NIR/photoacoustic imaging of multitype gallbladder cancer using carboxyl/amino functionalized polymer dots. Biomaterials Science, 2020, 8, 6657-6669.	5.4	4
24	Hollow Bimetallic Complex Nanoparticles for Trimodality Imaging and Photodynamic Therapy In Vivo. ACS Applied Materials & Interfaces, 2020, 12, 37470-37476.	8.0	14
25	Self-Amplified Apoptosis Targeting Nanoplatform for Synergistic Magnetic-Thermal/Chemo Therapy In Vivo. Advanced Healthcare Materials, 2020, 9, 2000202.	7.6	9
26	Soft Substrate Promotes Osteosarcoma Cell Self-Renewal, Differentiation, and Drug Resistance Through miR-29b and Its Target Protein Spin 1. ACS Biomaterials Science and Engineering, 2020, 6, 5588-5598.	5.2	23
27	Cell Membrane Coated-Biomimetic Nanoplatforms Toward Cancer Theranostics. Frontiers in Bioengineering and Biotechnology, 2020, 8, 371.	4.1	23
28	Renal-clearable zwitterionic conjugated hollow ultrasmall Fe ₃ O ₄ nanoparticles for T ₁ -weighted MR imaging <i>in vivo</i> . Journal of Materials Chemistry B, 2020, 8, 3087-3091.	5.8	14
29	A versatile nanoplatform for synergistic chemo-photothermal therapy and multimodal imaging against breast cancer. Expert Opinion on Drug Delivery, 2020, 17, 725-733.	5.0	20
30	Shear stress stimulates integrin β 1 trafficking and increases directional migration of cancer cells via promoting deacetylation of microtubules. Biochimica Et Biophysica Acta - Molecular Cell Research, 2020, 1867, 118676.	4.1	16
31	Nanozyme-Augmented Tumor Catalytic Therapy by Self-Supplied H ₂ O ₂ Generation. ACS Applied Bio Materials, 2020, 3, 1769-1778.	4.6	18
32	Ir-Ho bimetallic complex-mediated low-dose radiotherapy/radiodynamic therapy <i>in vivo</i> . Chemical Communications, 2020, 56, 6193-6196.	4.1	7
33	Facile one-step dialysis strategy for fabrication of hollow complex nanoparticles. Chemical Communications, 2019, 55, 9120-9123.	4.1	5
34	Mn-Porphyrin-Based Metal-Organic Framework with High Longitudinal Relaxivity for Magnetic Resonance Imaging Guidance and Oxygen Self-Supplementing Photodynamic Therapy. ACS Applied Materials & Interfaces, 2019, 11, 41946-41956.	8.0	75
35	Dendrimer-Functionalized Superparamagnetic Nanobeacons for Real-Time Detection and Depletion of HSP90 α mRNA and MR Imaging. Theranostics, 2019, 9, 5784-5796.	10.0	14
36	Polymeric Hybrid Nanomicelles for Cancer Theranostics: An Efficient and Precise Anticancer Strategy for the Codelivery of Doxorubicin/miR-34a and Magnetic Resonance Imaging. ACS Applied Materials & Interfaces, 2019, 11, 43865-43878.	8.0	31

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37	Polydopamine-decorated tobacco mosaic virus for photoacoustic/magnetic resonance bimodal imaging and photothermal cancer therapy. <i>Nanoscale</i> , 2019, 11, 9760-9768.	5.6	37
38	Amplified Photoacoustic Imaging of Tumor through In Situ Cycloaddition. <i>Particle and Particle Systems Characterization</i> , 2019, 36, 1900042.	2.3	1
39	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.	11.4	84
40	Synthetic data framework to estimate the minimum detectable concentration of contrast agents for multispectral optoacoustic imaging of small animals. <i>Journal of Biophotonics</i> , 2019, 12, e201900021.	2.3	0
41	Photostable Iridium(III)-Cyanine Complex Nanoparticles for Photoacoustic Imaging Guided Near-Infrared Photodynamic Therapy in Vivo. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 15417-15425.	8.0	53
42	Recent advancements in mesoporous silica nanoparticles towards therapeutic applications for cancer. <i>Acta Biomaterialia</i> , 2019, 89, 1-13.	8.3	156
43	ROCK isoforms differentially modulate cancer cell motility by mechanosensing the substrate stiffness. <i>Acta Biomaterialia</i> , 2019, 88, 86-101.	8.3	86
44	Iridium complex nanoparticle mediated radiopharmaceutical-excited phosphorescence imaging. <i>Chemical Communications</i> , 2019, 55, 14442-14445.	4.1	7
45	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.	4.1	50
46	Molecular Beacon-based Fluorescence Magnetic Nanoprobes for Tumor-related HSP90 mRNA In-situ Detection and Imaging. <i>FASEB Journal</i> , 2019, 33, 785.6.	0.5	0
47	Irinotecan/IR-820 coloaded nanocomposite as a cooperative nanoplatform for combinational therapy of tumor. <i>Nanomedicine</i> , 2018, 13, 595-603.	3.3	8
48	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.	8.0	45
49	Acidic pH regulates cytoskeletal dynamics through conformational integrin $\beta 1$ activation and promotes membrane protrusion. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2018, 1864, 2395-2408.	3.8	30
50	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.	4.1	28
51	Charge-reversal-functionalized PLGA nanobubbles as theranostic agents for ultrasonic-imaging-guided combination therapy. <i>Biomaterials Science</i> , 2018, 6, 2426-2439.	5.4	34
52	Amplifying Apoptosis Homing Nanoplatform for Tumor Theranostics. <i>Advanced Healthcare Materials</i> , 2018, 7, e1800296.	7.6	9
53	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.	0.5	0
54	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.	0.5	0

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55	MCP-1-induced ERK/GSK-3 β /Snail signaling facilitates the epithelial \rightarrow mesenchymal transition and promotes the migration of MCF-7 human breast carcinoma cells. <i>Cellular and Molecular Immunology</i> , 2017, 14, 621-630.	10.5	77
56	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.	8.3	58
57	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.	5.4	114
58	Notch signaling pathway networks in cancer metastasis: a new target for cancer therapy. <i>Medical Oncology</i> , 2017, 34, 180.	2.5	156
59	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.	4.1	45
60	Folate-Functionalized Magnetic-Mesoporous Silica Nanoparticles for Drug/Gene Codelivery To Potentiate the Antitumor Efficacy. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 13748-13758.	8.0	96
61	Essential oils from <i>Inula japonica</i> and <i>Angelicae dahuricae</i> enhance sensitivity of MCF-7/ADR breast cancer cells to doxorubicin via multiple mechanisms. <i>Journal of Ethnopharmacology</i> , 2016, 180, 18-27.	4.1	20
62	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.	3.6	19
63	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.	2.5	41
64	Photosensitizer-assembled PEGylated graphene-copper sulfide nanohybrids as a synergistic near-infrared phototherapeutic agent. <i>Expert Opinion on Drug Delivery</i> , 2016, 13, 155-165.	5.0	32
65	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.	6.7	44
66	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.	3.3	64
67	Notch-1 Signaling Promotes the Malignant Features of Human Breast Cancer through NF- κ B Activation. <i>PLoS ONE</i> , 2014, 9, e95912.	2.5	76
68	Roles for GP IIb/IIIa and α v β 3 integrins in MDA-MB-231 cell invasion and shear flow-induced cancer cell mechanotransduction. <i>Cancer Letters</i> , 2014, 344, 62-73.	7.2	69
69	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.	3.3	74
70	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.	6.7	48
71	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.	6.7	25
72	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, e227-e229.	9.9	3

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73	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.	6.7	36
74	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.	1.7	4
75	Vascular gene transfer and drug delivery in vitro using low-frequency ultrasound and microbubbles. <i>Acta Pharmacologica Sinica</i> , 2010, 31, 515-522.	6.1	8
76	Poly(D, L-lactide- <i>co</i> -glycolide) Nanoparticles Encapsulated Fluorescent Isothiocyanate and Paclitaxol: Preparation, Release Kinetics and Anticancer Effect. <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 282-287.	0.9	23