

Lang Rao

List of Publications by Year in descending order

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70
papers

5,793
citations

101543

36
h-index

88630

70
g-index

72
all docs

72
docs citations

72
times ranked

5757
citing authors

#	ARTICLE	IF	CITATIONS
1	Engineering Macrophages for Cancer Immunotherapy and Drug Delivery. <i>Advanced Materials</i> , 2020, 32, e2002054.	21.0	464
2	Cancer Cell Membrane-Coated Upconversion Nanoprobes for Highly Specific Tumor Imaging. <i>Advanced Materials</i> , 2016, 28, 3460-3466.	21.0	420
3	Microfluidic Electroporation-Facilitated Synthesis of Erythrocyte Membrane-Coated Magnetic Nanoparticles for Enhanced Imaging-Guided Cancer Therapy. <i>ACS Nano</i> , 2017, 11, 3496-3505.	14.6	377
4	Red Blood Cell Membrane as a Biomimetic Nanocoating for Prolonged Circulation Time and Reduced Accelerated Blood Clearance. <i>Small</i> , 2015, 11, 6225-6236.	10.0	353
5	Supramolecular cancer nanotheranostics. <i>Chemical Society Reviews</i> , 2021, 50, 2839-2891.	38.1	257
6	Cancer Cell Membrane Camouflaged Nanoparticles to Realize Starvation Therapy Together with Checkpoint Blockades for Enhancing Cancer Therapy. <i>ACS Nano</i> , 2019, 13, 2849-2857.	14.6	253
7	Hybrid cellular membrane nanovesicles amplify macrophage immune responses against cancer recurrence and metastasis. <i>Nature Communications</i> , 2020, 11, 4909.	12.8	199
8	Erythrocyte Membrane-Coated Upconversion Nanoparticles with Minimal Protein Adsorption for Enhanced Tumor Imaging. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 2159-2168.	8.0	195
9	Decoy nanoparticles protect against COVID-19 by concurrently adsorbing viruses and inflammatory cytokines. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 27141-27147.	7.1	173
10	Endogenous Labile Iron Pool-Mediated Free Radical Generation for Cancer Chemodynamic Therapy. <i>Journal of the American Chemical Society</i> , 2020, 142, 15320-15330.	13.7	170
11	Zika virus infection induces host inflammatory responses by facilitating NLRP3 inflammasome assembly and interleukin-1 β secretion. <i>Nature Communications</i> , 2018, 9, 106.	12.8	159
12	Platelet-Leukocyte Hybrid Membrane-Coated Immunomagnetic Beads for Highly Efficient and Highly Specific Isolation of Circulating Tumor Cells. <i>Advanced Functional Materials</i> , 2018, 28, 1803531.	14.9	154
13	Antitumor Platelet-Mimicking Magnetic Nanoparticles. <i>Advanced Functional Materials</i> , 2017, 27, 1604774.	14.9	152
14	Supramolecular Polymerization-Induced Nanoassemblies for Self-Augmented Cascade Chemotherapy and Chemodynamic Therapy of Tumor. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 17570-17578.	13.8	150
15	Activating Macrophage-Mediated Cancer Immunotherapy by Genetically Edited Nanoparticles. <i>Advanced Materials</i> , 2020, 32, e2004853.	21.0	146
16	Myeloid-Derived Suppressor Cell Membrane-Coated Magnetic Nanoparticles for Cancer Theranostics by Inducing Macrophage Polarization and Synergizing Immunogenic Cell Death. <i>Advanced Functional Materials</i> , 2018, 28, 1801389.	14.9	140
17	Cancer Stem Cell-Platelet Hybrid Membrane-Coated Magnetic Nanoparticles for Enhanced Photothermal Therapy of Head and Neck Squamous Cell Carcinoma. <i>Advanced Functional Materials</i> , 2019, 29, 1807733.	14.9	137
18	Platelet-Facilitated Photothermal Therapy of Head and Neck Squamous Cell Carcinoma. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 986-991.	13.8	132

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19	Cancer Cell Membrane-Coated Nanoparticles for Personalized Therapy in Patient-Derived Xenograft Models. <i>Advanced Functional Materials</i> , 2019, 29, 1905671.	14.9	125
20	Cell-Membrane-Mimicking Nanodecoys against Infectious Diseases. <i>ACS Nano</i> , 2020, 14, 2569-2574.	14.6	103
21	Synthetic nanoparticles camouflaged with biomimetic erythrocyte membranes for reduced reticuloendothelial system uptake. <i>Nanotechnology</i> , 2016, 27, 085106.	2.6	99
22	Macrophage membrane-coated iron oxide nanoparticles for enhanced photothermal tumor therapy. <i>Nanotechnology</i> , 2018, 29, 134004.	2.6	91
23	Effective cancer targeting and imaging using macrophage membrane-camouflaged upconversion nanoparticles. <i>Journal of Biomedical Materials Research - Part A</i> , 2017, 105, 521-530.	4.0	83
24	A Biomimetic Nanodecoy Traps Zika Virus To Prevent Viral Infection and Fetal Microcephaly Development. <i>Nano Letters</i> , 2019, 19, 2215-2222.	9.1	69
25	Gelatin Nanoparticle-Coated Silicon Beads for Density-Selective Capture and Release of Heterogeneous Circulating Tumor Cells with High Purity. <i>Theranostics</i> , 2018, 8, 1624-1635.	10.0	66
26	A strong green fluorescent nanoprobe for highly sensitive and selective detection of nitrite ions based on phosphorus and nitrogen co-doped carbon quantum dots. <i>Sensors and Actuators B: Chemical</i> , 2018, 262, 555-561.	7.8	60
27	A hypoxia responsive nanoassembly for tumor specific oxygenation and enhanced sonodynamic therapy. <i>Biomaterials</i> , 2021, 275, 120822.	11.4	57
28	Capture and Release of Cancer Cells by Combining On-Chip Purification and Off-Chip Enzymatic Treatment. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 24001-24007.	8.0	55
29	Genetically Programmable Fusion Cellular Vesicles for Cancer Immunotherapy. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 26320-26326.	13.8	55
30	Size-transformable antigen-presenting cell-mimicking nanovesicles potentiate effective cancer immunotherapy. <i>Science Advances</i> , 2020, 6, .	10.3	53
31	Photocatalytic Degradation of Cell Membrane Coatings for Controlled Drug Release. <i>Advanced Healthcare Materials</i> , 2016, 5, 1420-1427.	7.6	49
32	Biomimetic Immunomagnetic Nanoparticles with Minimal Nonspecific Biomolecule Adsorption for Enhanced Isolation of Circulating Tumor Cells. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 28732-28739.	8.0	49
33	Efficient Purification and Release of Circulating Tumor Cells by Synergistic Effect of Biomarker and SiO ₂ -Gelatin-Microbead-Based Size Difference Amplification. <i>Advanced Healthcare Materials</i> , 2016, 5, 1554-1559.	7.6	44
34	Capturing Cytokines with Advanced Materials: A Potential Strategy to Tackle COVID-19 Cytokine Storm. <i>Advanced Materials</i> , 2021, 33, e2100012.	21.0	43
35	Capture and release of cancer cells using electrospun etchable MnO ₂ nanofibers integrated in microchannels. <i>Applied Physics Letters</i> , 2015, 106, .	3.3	41
36	Yolk-shell nanovesicles endow glutathione-responsive concurrent drug release and T1 MRI activation for cancer theranostics. <i>Biomaterials</i> , 2020, 244, 119979.	11.4	40

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37	Fetal nucleated red blood cell analysis for non-invasive prenatal diagnostics using a nanostructure microchip. <i>Journal of Materials Chemistry B</i> , 2017, 5, 226-235.	5.8	34
38	A novel "off-on" fluorescence assay for the discriminative detection of Cu(II) and cysteine based on red-emissive Si-CDs and cellular imaging applications. <i>Journal of Materials Chemistry B</i> , 2020, 8, 919-927.	5.8	34
39	Biomimetic manganese-based theranostic nanoplatform for cancer multimodal imaging and twofold immunotherapy. <i>Bioactive Materials</i> , 2023, 19, 237-250.	15.6	33
40	Nanobiohybrids: A Synergistic Integration of Bacteria and Nanomaterials in Cancer Therapy. <i>BIO Integration</i> , 2020, 1, .	1.3	32
41	A platelet-mimicking theranostic platform for cancer interstitial brachytherapy. <i>Theranostics</i> , 2021, 11, 7589-7599.	10.0	32
42	Engineered Cell Membrane-Derived Nanoparticles in Immune Modulation. <i>Advanced Science</i> , 2021, 8, e2102330.	11.2	31
43	An Acoustic Droplet-Induced Enzyme Responsive Platform for the Capture and On-Demand Release of Single Circulating Tumor Cells. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 41118-41126.	8.0	30
44	Extracellular vesicle-coated nanoparticles. <i>View</i> , 2021, 2, 20200187.	5.3	27
45	Autofluorescent gelatin nanoparticles as imaging probes to monitor matrix metalloproteinase metabolism of cancer cells. <i>Journal of Biomedical Materials Research - Part A</i> , 2016, 104, 2854-2860.	4.0	25
46	One-step fabrication of 3D silver paste electrodes into microfluidic devices for enhanced droplet-based cell sorting. <i>AIP Advances</i> , 2015, 5, .	1.3	24
47	A microfluidic electrostatic separator based on pre-charged droplets. <i>Sensors and Actuators B: Chemical</i> , 2015, 210, 328-335.	7.8	24
48	Size-amplified acoustofluidic separation of circulating tumor cells with removable microbeads. <i>Nano Futures</i> , 2018, 2, 025004.	2.2	21
49	Multimodal stratified imaging of nanovaccines in lymph nodes for improving cancer immunotherapy. <i>Advanced Drug Delivery Reviews</i> , 2020, 161-162, 145-160.	13.7	21
50	Engineered extracellular vesicles and their mimics in cardiovascular diseases. <i>Journal of Controlled Release</i> , 2022, 347, 27-43.	9.9	21
51	Highly sensitive and rapid isolation of fetal nucleated red blood cells with microbead-based selective sedimentation for non-invasive prenatal diagnostics. <i>Nanotechnology</i> , 2018, 29, 434001.	2.6	20
52	Biocompatible fabrication of cell-laden calcium alginate microbeads using microfluidic double flow-focusing device. <i>Sensors and Actuators A: Physical</i> , 2018, 279, 313-320.	4.1	20
53	Gelatinase-sensitive nanoparticles loaded with photosensitizer and STAT3 inhibitor for cancer photothermal therapy and immunotherapy. <i>Journal of Nanobiotechnology</i> , 2021, 19, 379.	9.1	20
54	Platelet-Facilitated Photothermal Therapy of Head and Neck Squamous Cell Carcinoma. <i>Angewandte Chemie</i> , 2018, 130, 998-1003.	2.0	18

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55	A valve-based microfluidic device for on-chip single cell treatments. <i>Electrophoresis</i> , 2019, 40, 961-968.	2.4	18
56	Effective capture and release of circulating tumor cells using core-shell Fe ₃ O ₄ @MnO ₂ nanoparticles. <i>Chemical Physics Letters</i> , 2017, 668, 35-41.	2.6	15
57	Neutrophil membrane-coated immunomagnetic nanoparticles for efficient isolation and analysis of circulating tumor cells. <i>Biosensors and Bioelectronics</i> , 2022, 213, 114425.	10.1	15
58	Nanomaterial-mediated ablation therapy for cancer stem cells. <i>Matter</i> , 2022, 5, 1367-1390.	10.0	12
59	Three-dimensional valve-based controllable PDMS nozzle for dynamic modulation of droplet generation. <i>Microfluidics and Nanofluidics</i> , 2016, 20, 1.	2.2	11
60	One-step synthesis of green emission carbon dots for selective and sensitive detection of nitrite ions and cellular imaging application. <i>RSC Advances</i> , 2020, 10, 10067-10075.	3.6	11
61	Janus droplet parallel arrangements using a simple Y-channel flow-focusing microfluidic device. <i>Chemical Physics Letters</i> , 2017, 673, 93-98.	2.6	9
62	Cancer Theranostics: Myeloid-Derived Suppressor Cell Membrane-Coated Magnetic Nanoparticles for Cancer Theranostics by Inducing Macrophage Polarization and Synergizing Immunogenic Cell Death (<i>Adv. Funct. Mater.</i> 37/2018). <i>Advanced Functional Materials</i> , 2018, 28, 1870265.	14.9	4
63	Integration and Reanalysis of Four RNA-Seq Datasets Including BALF, Nasopharyngeal Swabs, Lung Biopsy, and Mouse Models Reveals Common Immune Features of COVID-19. <i>Immune Network</i> , 2022, 22, .	3.6	4
64	A Concentration-Controllable Microfluidic Droplet Mixer for Mercury Ion Detection. <i>Micromachines</i> , 2015, 6, 915-925.	2.9	3
65	Ultraviolet-assisted microfluidic generation of ferroelectric composite particles. <i>Biomicrofluidics</i> , 2016, 10, 024106.	2.4	2
66	Genetically Programmable Fusion Cellular Vesicles for Cancer Immunotherapy. <i>Angewandte Chemie</i> , 2021, 133, 26524-26530.	2.0	2
67	Theranostics: Antitumor Platelet-Mimicking Magnetic Nanoparticles (<i>Adv. Funct. Mater.</i> 9/2017). <i>Advanced Functional Materials</i> , 2017, 27, .	14.9	1
68	Early Cancer Diagnosis: Platelet-Leukocyte Hybrid Membrane-Coated Immunomagnetic Beads for Highly Efficient and Highly Specific Isolation of Circulating Tumor Cells (<i>Adv. Funct. Mater.</i> 34/2018). <i>Advanced Functional Materials</i> , 2018, 28, 1870241.	14.9	1
69	Advances in cell membrane-camouflaged nano-carrier for photothermal therapy. <i>Chinese Optics</i> , 2018, 11, 392-400.	0.6	1
70	Microfluidics-Assisted Fluorescence Mapping of DNA Phosphorothioation. <i>Analytical Chemistry</i> , 2022, 94, 10479-10486.	6.5	1