Yu Zhang

List of Publications by Year
in descending order

55 papers	8,967 citations	172457 29 h-index	161849 54 g-index
55 all docs	55 docs citations	55 times ranked	9357 citing authors

#	Article	IF	Citations
1	Intrinsic peroxidase-like activity of ferromagnetic nanoparticles. Nature Nanotechnology, 2007, 2, 577-583.	31.5	5,080
2	Dual Enzyme-like Activities of Iron Oxide Nanoparticles and Their Implication for Diminishing Cytotoxicity. ACS Nano, 2012, 6, 4001-4012.	14.6	717
3	Prussian Blue Nanoparticles as Multienzyme Mimetics and Reactive Oxygen Species Scavengers. Journal of the American Chemical Society, 2016, 138, 5860-5865.	13.7	611
4	Co₃O₄ Nanoparticles with Multi-Enzyme Activities and Their Application in Immunohistochemical Assay. ACS Applied Materials & Interfaces, 2014, 6, 1959-1970.	8.0	357
5	Super-paramagnetic responsive nanofibrous scaffolds under static magnetic field enhance osteogenesis for bone repair in vivo. Scientific Reports, 2013, 3, 2655.	3.3	186
6	Enhanced Tumor Synergistic Therapy by Injectable Magnetic Hydrogel Mediated Generation of Hyperthermia and Highly Toxic Reactive Oxygen Species. ACS Nano, 2019, 13, 14013-14023.	14.6	161
7	A Hydrogen Peroxideâ€Responsive O₂ Nanogenerator for Ultrasound and Magneticâ€Resonance Dual Modality Imaging. Advanced Materials, 2012, 24, 5205-5211.	21.0	117
8	Catalytic Mechanisms of Nanozymes and Their Applications in Biomedicine. Bioconjugate Chemistry, 2019, 30, 1273-1296.	3.6	113
9	High-performance PEGylated Mnâ€“Zn ferrite nanocrystals as a passive-targeted agent for magnetically induced cancer theranostics. Biomaterials, 2014, 35, 9126-9136.	11.4	110
10	Fluorescent Nanoprobes with Oriented Modified Antibodies to Improve Lateral Flow Immunoassay of Cardiac Troponin I. Analytical Chemistry, 2018, 90, 6502-6508.	6.5	106
11	Paramagnetic nanofibrous composite films enhance the osteogenic responses of pre-osteoblast cells. Nanoscale, 2010, 2, 2565.	5.6	104
12	Macrophage phenotypic mechanomodulation of enhancing bone regeneration by superparamagnetic scaffold upon magnetization. Biomaterials, 2017, 140, 16-25.	11.4	97
13	Multi-modal Mnâ€“Zn ferrite nanocrystals for magnetically-induced cancer targeted hyperthermia: a comparison of passive and active targeting effects. Nanoscale, 2016, 8, 16902-16915.	5.6	76
14	Magnetic targeting combined with active targeting of dual-ligand iron oxide nanoprobes to promote the penetration depth in tumors for effective magnetic resonance imaging and hyperthermia. Acta Biomaterialia, 2019, 96, 491-504.	8.3	74
15	Injectable magnetic supramolecular hydrogel with magnetocaloric liquid-conformal property prevents post-operative recurrence in a breast cancer model. Acta Biomaterialia, 2018, 74, 302-311.	8.3	62
16	Active-target T₁-weighted MR Imaging of Tiny Hepatic Tumor via RGD Modified Ultra-small Fe₃O₄ Nanoprobes. Theranostics, 2016, 6, 1780-1791.	10.0	59
17	Shape Evolution of â€œMultibranchedâ€•Mnâ€“Zn Ferrite Nanostructures with High Performance: A Transformation of Nanocrystals into Nanoclusters. Chemistry of Materials, 2013, 25, 3702-3709.	6.7	58
18	Using PEGylated magnetic nanoparticles to describe the EPR effect in tumor for predicting therapeutic efficacy of micelle drugs. Nanoscale, 2018, 10, 1788-1797.	5.6	53

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19	Antibody-Oriented Strategy and Mechanism for the Preparation of Fluorescent Nanoprobes for Fast and Sensitive Immunodetection. Langmuir, 2019, 35, 4860-4867.	3.5	52
20	Timeâ€Dependent T₁â€“T₂ Switchable Magnetic Resonance Imaging Realized by c(RGDyK) Modified Ultrasmall Fe₃O₄ Nanoprobes. Advanced Functional Materials, 2018, 28, 1802281.	14.9	50
21	Injectable thermosensitive magnetic nanoemulsion hydrogel for multimodal-imaging-guided accurate thermoablative cancer therapy. Nanoscale, 2017, 9, 16175-16182.	5.6	49
22	Ultra-small particles of iron oxide as peroxidase for immunohistochemical detection. Nanotechnology, 2011, 22, 225703.	2.6	47
23	Shape-dependent enzyme-like activity of Co3O4 nanoparticles and their conjugation with his-tagged EGFR single-domain antibody. Colloids and Surfaces B: Biointerfaces, 2017, 154, 55-62.	5.0	46
24	Prussian Blue Nanozymes Prevent Anthracycline-Induced Liver Injury by Attenuating Oxidative Stress and Regulating Inflammation. ACS Applied Materials & Interfaces, 2021, 13, 42382-42395.	8.0	41
25	A Novel AuNPâ€Based Glucose Oxidase Mimic with Enhanced Activity and Selectivity Constructed by Molecular Imprinting and O₂â€Containing Nanoemulsion Embedding. Advanced Materials Interfaces, 2018, 5, 1801070.	3.7	39
26	Synthesis of Ultrasmall Fe₃O₄ Nanoparticles as T₁â€“T₂ Dual-Modal Magnetic Resonance Imaging Contrast Agents in Rabbit Hepatic Tumors. ACS Applied Nano Materials, 2020, 3, 3585-3595.	5.0	36
27	Nanomedicines and nanomaterials for cancer therapy: Progress, challenge and perspectives. Chemical Engineering Journal, 2022, 446, 137147.	12.7	35
28	Fe3O4@Pt nanozymes combining with CXCR4 antagonists to synergistically treat acute myeloid leukemia. Nano Today, 2021, 37, 101106.	11.9	33
29	Integration of a Superparamagnetic Scaffold and Magnetic Field To Enhance the Wound-Healing Phenotype of Fibroblasts. ACS Applied Materials & Interfaces, 2018, 10, 22913-22923.	8.0	31
30	High-Performance Worm-like Mnâ€“Zn Ferrite Theranostic Nanoagents and the Application on Tumor Theranostics. ACS Applied Materials & Interfaces, 2019, 11, 29536-29548.	8.0	30
31	Polymerase chain reaction combined with fluorescent lateral flow immunoassay based on magnetic purification for rapid detection of canine parvovirus 2. BMC Veterinary Research, 2019, 15, 30.	1.9	27
32	Superparamagnetic anisotropic nano-assemblies with longer blood circulation in vivo: a highly efficient drug delivery carrier for leukemia therapy. Nanoscale, 2016, 8, 17085-17089.	5.6	23
33	Apoptosis-promoting effect of rituximab-conjugated magnetic nanoprobes on malignant lymphoma cells with CD20 overexpression . International Journal of Nanomedicine, 2019, Volume 14, 921-936.	6.7	22
34	Advances in nanoparticleâ€based lateral flow immunoassay for pointâ€ofâ€care testing. View, 2022, 3, .	5.3	22
35	Prussian Blue Nanoparticles Having Various Sizes and Crystallinities for Multienzyme Catalysis and Magnetic Resonance Imaging. ACS Applied Nano Materials, 2021, 4, 5176-5186.	5.0	21
36	Enzyme catalysis enhanced dark-field imaging as a novel immunohistochemical method. Nanoscale, 2016, 8, 8553-8558.	5.6	19

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37	A biomimetic nanocomposite with enzyme-like activities and CXCR4 antagonism efficiently enhances the therapeutic efficacy of acute myeloid leukemia. Bioactive Materials, 2022, 18, 526-538.	15.6	19
38	Estimation the tumor temperature in magnetic nanoparticle hyperthermia by infrared thermography: Phantom and numerical studies. Journal of Thermal Biology, 2018, 76, 89-94.	2.5	18
39	Paclitaxel-loaded magnetic nanocrystals for tumor neovascular-targeted theranostics: an amplifying synergistic therapy combining magnetic hyperthermia with chemotherapy. Nanoscale, 2021, 13, 3613-3626.	5.6	17
40	A signal amplifying fluorescent nanoprobe and lateral flow assay for ultrasensitive detection of cardiac biomarker troponin I. Analytical Methods, 2019, 11, 3506-3513.	2.7	16
41	Precise Study on Size-Dependent Properties of Magnetic Iron Oxide Nanoparticles for In Vivo Magnetic Resonance Imaging. Journal of Nanomaterials, 2018, 2018, 1-9.	2.7	15
42	Rituximab conjugated iron oxide nanoparticles for targeted imaging and enhanced treatment against CD20-positive lymphoma. Journal of Materials Chemistry B, 2020, 8, 895-907.	5.8	15
43	Zwitterion-functionalized hollow mesoporous Prussian blue nanoparticles for targeted and synergetic chemo-photothermal treatment of acute myeloid leukemia. Journal of Materials Chemistry B, 2021, 9, 5245-5254.	5.8	15
44	Rituximabâ€“Au nanoprobes for simultaneous dark-field imaging and DAB staining of CD20 over-expressed on Raji cells. Analyst, The, 2014, 139, 5660-5663.	3.5	14
45	Coronal relay reactor Fe3O4@CeO2 for accelerating ROS axial conversion through enhanced Enzyme-like effect and relay effect. Chemical Engineering Journal, 2022, 429, 132303.	12.7	14
46	Polyethyleneimine-coated Iron Oxide Nanoparticles as a Vehicle for the Delivery of Small Interfering RNA to Macrophages In Vitro and In Vivo. Journal of Visualized Experiments, 2019, , .	0.3	13
47	Lateral flow fluorescent immunoassay based on isothermal amplification for rapid quantitative detection ofSalmonellaspp.. Analyst, The, 2020, 145, 2367-2377.	3.5	13
48	Prussian blue nanoparticles induce myeloid leukemia cells to differentiate into red blood cells through nanozyme activities. Nanoscale, 2020, 12, 23084-23091.	5.6	12
49	Modular design of Bi-specific nanoplatform engaged in malignant lymphoma immunotherapy. Nanoscale, 2020, 12, 18418-18428.	5.6	6
50	Tri-primer-enhanced strand exchange amplification combined with rapid lateral flow fluorescence immunoassay to detect SARS-CoV-2. Analyst, The, 2021, 146, 6650-6664.	3.5	4
51	Artificial Intelligence-Aided Multiple Tumor Detection Method Based on Immunohistochemistry-Enhanced Dark-Field Imaging. Analytical Chemistry, 2022, 94, 1037-1045.	6.5	4
52	Fluorescent Realgar Nanoclusters for Nuclear Targeting-Triggered Tumor Theranostics. ACS Applied Nano Materials, 2022, 5, 6485-6499.	5.0	3
53	Long-term fate tracking and quantitative analyzing of nanoparticles in stem cells with bright-field microscopy. Nano Today, 2022, 44, 101506.	11.9	3
54	Accurate, rapid and highly sensitive detection of African swine fever virus via graphene oxide-based accelerated strand exchange amplification. Analytical Methods, 2022, 14, 2072-2082.	2.7	2

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55	Rapid Quantitative Detection of Salmonella spp. via Magnetic Beads-based Fluorescent Lateral Flow Immunoassay*. , 2019, , .		0