

Jinhao Gao

List of Publications by Citations

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114
papers

9,622
citations

42
h-index

97
g-index

125
ext. papers

10,571
ext. citations

9.9
avg, IF

6.25
L-index

#	Paper	IF	Citations
114	Multifunctional magnetic nanoparticles: design, synthesis, and biomedical applications. <i>Accounts of Chemical Research</i> , 2009 , 42, 1097-107	24.3	1505
113	Heterodimers of nanoparticles: formation at a liquid-liquid interface and particle-specific surface modification by functional molecules. <i>Journal of the American Chemical Society</i> , 2005 , 127, 34-5	16.4	509
112	Multifunctional Fe ₃ O ₄ @polydopamine core-shell nanocomposites for intracellular mRNA detection and imaging-guided photothermal therapy. <i>ACS Nano</i> , 2014 , 8, 3876-83	16.7	502
111	PET/NIRF/MRI triple functional iron oxide nanoparticles. <i>Biomaterials</i> , 2010 , 31, 3016-22	15.6	410
110	Applications and potential toxicity of magnetic iron oxide nanoparticles. <i>Small</i> , 2013 , 9, 1533-45	11	371
109	FePt@CoS(2) yolk-shell nanocrystals as a potent agent to kill HeLa cells. <i>Journal of the American Chemical Society</i> , 2007 , 129, 1428-33	16.4	363
108	Multifunctional yolk-shell nanoparticles: a potential MRI contrast and anticancer agent. <i>Journal of the American Chemical Society</i> , 2008 , 130, 11828-33	16.4	336
107	Octapod iron oxide nanoparticles as high-performance T ₁ contrast agents for magnetic resonance imaging. <i>Nature Communications</i> , 2013 , 4, 2266	17.4	331
106	A synergistically enhanced T(1) -T(2) dual-modal contrast agent. <i>Advanced Materials</i> , 2012 , 24, 6223-8	24	232
105	Intracellular spatial control of fluorescent magnetic nanoparticles. <i>Journal of the American Chemical Society</i> , 2008 , 130, 3710-1	16.4	218
104	Magnetic-dipolar-interaction-induced self-assembly affords wires of hollow nanocrystals of cobalt selenide. <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 1220-3	16.4	213
103	A biocompatible method of decorporation: bisphosphonate-modified magnetite nanoparticles to remove uranyl ions from blood. <i>Journal of the American Chemical Society</i> , 2006 , 128, 13358-9	16.4	205
102	Applications of nanomaterials inside cells. <i>Nano Today</i> , 2009 , 4, 37-51	17.9	200
101	Engineered iron-oxide-based nanoparticles as enhanced T ₁ contrast agents for efficient tumor imaging. <i>ACS Nano</i> , 2013 , 7, 3287-96	16.7	195
100	Near-infrared fluorescent nanoprobe for cancer molecular imaging: status and challenges. <i>Trends in Molecular Medicine</i> , 2010 , 16, 574-83	11.5	186
99	Structure-Relaxivity Relationships of Magnetic Nanoparticles for Magnetic Resonance Imaging. <i>Advanced Materials</i> , 2019 , 31, e1804567	24	166
98	Ultrasmall near-infrared non-cadmium quantum dots for in vivo tumor imaging. <i>Small</i> , 2010 , 6, 256-61	11	155

97	Fluorescent magnetic nanocrystals by sequential addition of reagents in a one-pot reaction: a simple preparation for multifunctional nanostructures. <i>Journal of the American Chemical Society</i> , 2007 , 129, 11928-35	16.4	155
96	Combining Fluorescent Probes and Biofunctional Magnetic Nanoparticles for Rapid Detection of Bacteria in Human Blood. <i>Advanced Materials</i> , 2006 , 18, 3145-3148	24	150
95	Interplay between longitudinal and transverse contrasts in Fe ₃ O ₄ nanoplates with (111) exposed surfaces. <i>ACS Nano</i> , 2014 , 8, 7976-85	16.7	128
94	Anisotropic Shaped Iron Oxide Nanostructures: Controlled Synthesis and Proton Relaxation Shortening Effects. <i>Chemistry of Materials</i> , 2015 , 27, 3505-3515	9.6	126
93	In vivo tumor-targeted fluorescence imaging using near-infrared non-cadmium quantum dots. <i>Bioconjugate Chemistry</i> , 2010 , 21, 604-9	6.3	124
92	Tunable T1 and T2 contrast abilities of manganese-engineered iron oxide nanoparticles through size control. <i>Nanoscale</i> , 2014 , 6, 10404-12	7.7	113
91	Affibody-based nanoprobe for HER2-expressing cell and tumor imaging. <i>Biomaterials</i> , 2011 , 32, 2141-8	15.6	113
90	A novel clinically translatable fluorescent nanoparticle for targeted molecular imaging of tumors in living subjects. <i>Nano Letters</i> , 2012 , 12, 281-6	11.5	111
89	Nanoprobes for in vitro diagnostics of cancer and infectious diseases. <i>Biomaterials</i> , 2012 , 33, 189-206	15.6	110
88	Surface and interfacial engineering of iron oxide nanoplates for highly efficient magnetic resonance angiography. <i>ACS Nano</i> , 2015 , 9, 3012-22	16.7	99
87	Real-time monitoring of arsenic trioxide release and delivery by activatable T(1) imaging. <i>ACS Nano</i> , 2015 , 9, 2749-59	16.7	89
86	Magnetite nanoparticles as smart carriers to manipulate the cytotoxicity of anticancer drugs: magnetic control and pH-responsive release. <i>Journal of Materials Chemistry</i> , 2012 , 22, 15717		88
85	Artificial local magnetic field inhomogeneity enhances T relaxivity. <i>Nature Communications</i> , 2017 , 8, 15468	17.4	87
84	Multifunctional Ag@Fe ₂ O ₃ yolk-shell nanoparticles for simultaneous capture, kill, and removal of pathogen. <i>Journal of Materials Chemistry</i> , 2011 , 21, 16344		78
83	Manganese-iron layered double hydroxide: a theranostic nanoplatfom with pH-responsive MRI contrast enhancement and drug release. <i>Journal of Materials Chemistry B</i> , 2017 , 5, 3629-3633	7.3	68
82	Composition Tunable Manganese Ferrite Nanoparticles for Optimized T2 Contrast Ability. <i>Chemistry of Materials</i> , 2017 , 29, 3038-3047	9.6	68
81	Highly magnetic iron carbide nanoparticles as effective T(2) contrast agents. <i>Nanoscale</i> , 2014 , 6, 726-30	7.7	66
80	Colloidosome-based synthesis of a multifunctional nanostructure of silver and hollow iron oxide nanoparticles. <i>Langmuir</i> , 2010 , 26, 4184-7	4	62

79	Europium-engineered iron oxide nanocubes with high T1 and T2 contrast abilities for MRI in living subjects. <i>Nanoscale</i> , 2015 , 7, 6843-50	7.7	60
78	Nanoparticles modulate autophagic effect in a dispersity-dependent manner. <i>Scientific Reports</i> , 2015 , 5, 14361	4.9	56
77	Near-infrared quantum dots as optical probes for tumor imaging. <i>Current Topics in Medicinal Chemistry</i> , 2010 , 10, 1147-57	3	55
76	Geometrically confined ultras-small gadolinium oxide nanoparticles boost the T(1) contrast ability. <i>Nanoscale</i> , 2016 , 8, 3768-74	7.7	53
75	A multiple gadolinium complex decorated fullerene as a highly sensitive T(1) contrast agent. <i>Chemical Communications</i> , 2015 , 51, 4390-3	5.8	53
74	Kinetic and sensitive analysis of tyrosinase activity using electron transfer complexes: in vitro and intracellular study. <i>Small</i> , 2015 , 11, 862-70	11	46
73	Albumin-based nanoparticles loaded with hydrophobic gadolinium chelates as T-T dual-mode contrast agents for accurate liver tumor imaging. <i>Nanoscale</i> , 2017 , 9, 4516-4523	7.7	42
72	The Roles of Morphology on the Relaxation Rates of Magnetic Nanoparticles. <i>ACS Nano</i> , 2018 , 12, 4605-4614	14	42
71	Gadolinium embedded iron oxide nanoclusters as T1-T2 dual-modal MRI-visible vectors for safe and efficient siRNA delivery. <i>Nanoscale</i> , 2013 , 5, 8098-104	7.7	42
70	Activated Surface Charge-Reversal Manganese Oxide Nanocubes with High Surface-to-Volume Ratio for Accurate Magnetic Resonance Tumor Imaging. <i>Advanced Functional Materials</i> , 2017 , 27, 1700978	15.6	39
69	Self-assembled hybrid nanofibers confer a magnetorheological supramolecular hydrogel. <i>Tetrahedron</i> , 2007 , 63, 7349-7357	2.4	38
68	Pro-Death or Pro-Survival: Contrasting Paradigms on Nanomaterial-Induced Autophagy and Exploitations for Cancer Therapy. <i>Accounts of Chemical Research</i> , 2019 , 52, 3164-3176	24.3	37
67	Understanding the metabolic fate and assessing the biosafety of MnO nanoparticles by metabolomic analysis. <i>Nanotechnology</i> , 2013 , 24, 455102	3.4	37
66	Intracellular self-assembly of nanoparticles for enhancing cell uptake. <i>Chemical Communications</i> , 2012 , 48, 9738-40	5.8	37
65	Facile integration of multiple magnetite nanoparticles for theranostics combining efficient MRI and thermal therapy. <i>Nanoscale</i> , 2015 , 7, 2667-75	7.7	36
64	Versatile Octapod-Shaped Hollow Porous Manganese(II) Oxide NanoplatforM for Real-Time Visualization of Cargo Delivery. <i>Nano Letters</i> , 2019 , 19, 5394-5402	11.5	36
63	Magnetic-Dipolar-Interaction-Induced Self-Assembly Affords Wires of Hollow Nanocrystals of Cobalt Selenide. <i>Angewandte Chemie</i> , 2006 , 118, 1242-1245	3.6	36
62	Cation Exchange of Anisotropic-Shaped Magnetite Nanoparticles Generates High-Relaxivity Contrast Agents for Liver Tumor Imaging. <i>Chemistry of Materials</i> , 2016 , 28, 3497-3506	9.6	35

61	Theranostic Au cubic nano-aggregates as potential photoacoustic contrast and photothermal therapeutic agents. <i>Theranostics</i> , 2014 , 4, 534-45	12.1	33
60	A Self-Assembled Biocompatible Nanoplatfor for Multimodal MR/Fluorescence Imaging Assisted Photothermal Therapy and Prognosis Analysis. <i>Small</i> , 2018 , 14, e1801612	11	32
59	ZnAs@SiO nanoparticles as a potential anti-tumor drug for targeting stemness and epithelial-mesenchymal transition in hepatocellular carcinoma via SHP-1/JAK2/STAT3 signaling. <i>Theranostics</i> , 2019 , 9, 4391-4408	12.1	32
58	Facile, sensitive, and ratiometric detection of mercuric ions using GSH-capped semiconductor quantum dots. <i>Analyst, The</i> , 2013 , 138, 3230-7	5	32
57	A fluorescent switch for sequentially and selectively sensing copper(II) and L-histidine in vitro and in living cells. <i>Analyst, The</i> , 2014 , 139, 3360-4	5	31
56	Impact of Morphology on Iron Oxide Nanoparticles-Induced Inflammasome Activation in Macrophages. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 41197-41206	9.5	31
55	A gadolinium-complex-based theranostic prodrug for in vivo tumour-targeted magnetic resonance imaging and therapy. <i>Chemical Communications</i> , 2019 , 55, 4546-4549	5.8	30
54	Cascaded Multiresponsive Self-Assembled F MRI Nanoprobes with Redox-Triggered Activation and NIR-Induced Amplification. <i>Nano Letters</i> , 2020 , 20, 363-371	11.5	29
53	Activatable Mitochondria-Targeting Organoarsenic Prodrugs for Bioenergetic Cancer Therapy. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 1403-1410	16.4	29
52	Arsenite-loaded nanoparticles inhibit PARP-1 to overcome multidrug resistance in hepatocellular carcinoma cells. <i>Scientific Reports</i> , 2016 , 6, 31009	4.9	26
51	DOTA-Branched Organic Frameworks as Giant and Potent Metal Chelators. <i>Journal of the American Chemical Society</i> , 2020 , 142, 198-206	16.4	26
50	Water bridge coordination on the metal-rich facets of GdO nanoplates confers high T relaxivity. <i>Nanoscale</i> , 2016 , 8, 17887-17894	7.7	26
49	Biodegradable and Renal-Clearable Hollow Porous Iron Oxide Nanoboxes for in Vivo Imaging. <i>Chemistry of Materials</i> , 2018 , 30, 7950-7961	9.6	26
48	A facile route to core-shell nanoparticulate formation of arsenic trioxide for effective solid tumor treatment. <i>Nanoscale</i> , 2016 , 8, 4373-80	7.7	25
47	Silica nanovehicles endow arsenic trioxide with an ability to effectively treat cancer cells and solid tumors. <i>Journal of Materials Chemistry B</i> , 2014 , 2, 6313-6323	7.3	25
46	Color-tunable fluorescent-magnetic core/shell multifunctional nanocrystals. <i>Chemical Communications</i> , 2009 , 4025-7	5.8	23
45	Targeted arsenite-loaded magnetic multifunctional nanoparticles for treatment of hepatocellular carcinoma. <i>Nanotechnology</i> , 2019 , 30, 175101	3.4	23
44	Gold nanoparticles impair autophagy flux through shape-dependent endocytosis and lysosomal dysfunction. <i>Journal of Materials Chemistry B</i> , 2018 , 6, 8127-8136	7.3	22

43	A Fluorinated Ionic Liquid-Based Activatable F MRI Platform Detects Biological Targets. <i>CheM</i> , 2020 , 6, 1134-1148	16.2	21
42	Surface manganese substitution in magnetite nanocrystals enhances T contrast ability by increasing electron spin relaxation. <i>Journal of Materials Chemistry B</i> , 2018 , 6, 401-413	7.3	21
41	Real-time monitoring in vivo behaviors of theranostic nanoparticles by contrast-enhanced T1 imaging. <i>Analytical Chemistry</i> , 2015 , 87, 8941-8	7.8	20
40	Reversible redox-responsive H/F MRI molecular probes. <i>Chemical Communications</i> , 2020 , 56, 4106-4109	5.8	19
39	Recent advances of nanomedicines for liver cancer therapy. <i>Journal of Materials Chemistry B</i> , 2020 , 8, 3747-3771	7.3	19
38	Iron-oxide-based twin nanoplates with strong T relaxation shortening for contrast-enhanced magnetic resonance imaging. <i>Nanoscale</i> , 2018 , 10, 18398-18406	7.7	19
37	An Albumin-Binding T- T Dual-Modal MRI Contrast Agents for Improved Sensitivity and Accuracy in Tumor Imaging. <i>Bioconjugate Chemistry</i> , 2019 , 30, 1821-1829	6.3	18
36	The cytotoxicity of gold nanoparticles is dispersity-dependent. <i>Dalton Transactions</i> , 2015 , 44, 17911-5	4.3	17
35	Sensitive Contrast-Enhanced Magnetic Resonance Imaging of Orthotopic and Metastatic Hepatic Tumors by Ultralow Doses of Zinc Ferrite Octapods. <i>Chemistry of Materials</i> , 2019 , 31, 1381-1390	9.6	16
34	A Protein-Corona-Free T(1)-T(2) Dual-Modal Contrast Agent for Accurate Imaging of Lymphatic Tumor Metastasis. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 28286-93	9.5	16
33	Facile synthesis of aquo-cisplatin arsenite multidrug nanocomposites for overcoming drug resistance and efficient combination therapy. <i>Biomaterials Science</i> , 2018 , 7, 262-271	7.4	15
32	Arsenite-loaded nanoparticles inhibit the invasion and metastasis of a hepatocellular carcinoma: in vitro and in vivo study. <i>Nanotechnology</i> , 2017 , 28, 445101	3.4	14
31	A fluorinated bihydrazide conjugate for activatable sensing and imaging of hypochlorous acid by F NMR/MRI. <i>Chemical Communications</i> , 2019 , 55, 12455-12458	5.8	14
30	Activatable T Relaxivity Recovery Nanoconjugates for Kinetic and Sensitive Analysis of Matrix Metalloprotease 2. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 21688-21696	9.5	13
29	Geometrical confinement directed albumin-based nanoprobe as enhanced T contrast agents for tumor imaging. <i>Journal of Materials Chemistry B</i> , 2017 , 5, 8004-8012	7.3	13
28	Activatable F MRI Nanoprobes for Visualization of Biological Targets in Living Subjects. <i>Advanced Materials</i> , 2021 , e2005657	24	13
27	An extracellular pH-driven targeted multifunctional manganese arsenite delivery system for tumor imaging and therapy. <i>Biomaterials Science</i> , 2019 , 7, 2480-2490	7.4	12
26	Thermal decomposition of ethylenediaminetetraacetic acid in the presence of 1,2-phenylenediamine and hydrochloric acid. <i>Journal of the Brazilian Chemical Society</i> , 2006 , 17, 880-885	1.5	12

25	Fabrication of High Thermal Conductivity Carbon Nanotube Arrays by Self Assembled Fe ₃ O ₄ particles. <i>CIRP Annals - Manufacturing Technology</i> , 2007 , 56, 245-248	4.9	11
24	Silica sub-microspheres induce autophagy in an endocytosis dependent manner. <i>RSC Advances</i> , 2017 , 7, 12496-12502	3.7	10
23	Surface Engineering to Boost the Performance of Nanoparticle-Based T1 Contrast Agents. <i>European Journal of Inorganic Chemistry</i> , 2019 , 2019, 3801-3809	2.3	10
22	NMR-based metabonomic analysis of MnO-embedded iron oxide nanoparticles as potential dual-modal contrast agents. <i>Journal of Nanoparticle Research</i> , 2014 , 16, 1	2.3	9
21	An integrative multi-omics approach uncovers the regulatory role of CDK7 and CDK4 in autophagy activation induced by silica nanoparticles. <i>Autophagy</i> , 2021 , 17, 1426-1447	10.2	8
20	Fluorinated Gadolinium Chelate-Grafted Nanoconjugates for Contrast-Enhanced T1-Weighted and pH-Activatable T2*-Weighted MRI. <i>Analytical Chemistry</i> , 2020 , 92, 16293-16300	7.8	6
19	Hypoxia-Activated Prodrug Enabling Synchronous Chemotherapy and HIF-1 α Downregulation for Tumor Treatment. <i>Bioconjugate Chemistry</i> , 2021 , 32, 983-990	6.3	6
18	Synergistic Enhancement of Fluorescence and Magnetic Resonance Signals Assisted by Albumin Aggregate for Dual-Modal Imaging. <i>ACS Nano</i> , 2021 , 15, 9924-9934	16.7	5
17	Imaging Beyond Seeing: Early Prognosis of Cancer Treatment. <i>Small Methods</i> , 2021 , 5, e2001025	12.8	5
16	Activatable Multiplexed T1 Magnetic Resonance Imaging Visualizes Reactive Oxygen and Nitrogen Species in Drug-Induced Acute Kidney Injury. <i>Analytical Chemistry</i> , 2021 ,	7.8	5
15	DOPAMINE SERVES AS A STABLE SURFACE MODIFIER FOR IRON OXIDE NANOPARTICLES. <i>Journal of Molecular and Engineering Materials</i> , 2013 , 01, 1350001	1.3	3
14	Arsenite-loaded albumin nanoparticles for targeted synergistic chemo-photothermal therapy of HCC. <i>Biomaterials Science</i> , 2021 ,	7.4	3
13	Enhancing Chemotherapy of p53-Mutated Cancer through Ubiquitination-Dependent Proteasomal Degradation of Mutant p53 Proteins by Engineered ZnFe ₂ Nanoparticles. <i>Advanced Functional Materials</i> , 2020 , 30, 2001994	15.6	3
12	Deep-tissue real-time imaging of drug-induced liver injury with peroxynitrite-responsive T1 MRI nanoprobe. <i>Chemical Communications</i> , 2021 , 57, 9622-9625	5.8	3
11	Improving the sensitivity of contrast-enhanced MRI and sensitive diagnosing tumors with ultralow doses of MnO octahedrons. <i>Theranostics</i> , 2021 , 11, 6966-6982	12.1	3
10	Fluorinated Ionic Liquid Based Multicolor T1 MRI Nanoprobes for In Vivo Sensing of Multiple Biological Targets. <i>Advanced Healthcare Materials</i> , 2021 , e2102079	10.1	3
9	Synthesis of Nanomaterials as a Platform for Molecular Imaging 2011 , 25-45		2
8	Zwitterion-Coated Ultrasmall MnO Nanoparticles Enable Highly Sensitive T1-Weighted Contrast-Enhanced Brain Imaging. <i>ACS Applied Materials & Interfaces</i> , 2022 ,	9.5	2

7	Recent advances in engineering iron oxide nanoparticles for effective magnetic resonance imaging.. <i>Bioactive Materials</i> , 2022 , 12, 214-245	16.7	2
6	Activatable Mitochondria-Targeting Organoarsenic Prodrugs for Bioenergetic Cancer Therapy. <i>Angewandte Chemie</i> , 2021 , 133, 1423-1430	3.6	2
5	Small functionalized iron oxide nanoparticles for dual brain magnetic resonance imaging and fluorescence imaging. <i>RSC Advances</i> , 2021 , 11, 12867-12875	3.7	2
4	A camptothecin prodrug induces mitochondria-mediated apoptosis in cancer cells with cascade activations. <i>Chemical Communications</i> , 2021 , 57, 11033-11036	5.8	2
3	Nanoparticle Surface Modification and Bioconjugation 2011 , 47-73		1
2	Multinuclear Mn(II) united-DOTA complexes with enhanced inertness and high MRI contrast ability. <i>Cell Reports Physical Science</i> , 2022 , 100920	6.1	1
1	Low-temperature dynamics of magnetic nanoshells. <i>Europhysics Letters</i> , 2010 , 91, 57006	1.6	0