Jinhao Gao

List of Publications by Year in Descending Order

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	Zwitterion-Coated Ultrasmall MnO Nanoparticles Enable Highly Sensitive -Weighted Contrast-Enhanced Brain Imaging.. *ACS Applied Materials & Interfaces*, **2022**,	9.5	2
113	Recent advances in engineering iron oxide nanoparticles for effective magnetic resonance imaging.. *Bioactive Materials*, **2022**, 12, 214-245	16.7	2
112	Multinuclear Mn(II) united-DOTA complexes with enhanced inertness and high MRI contrast ability. *Cell Reports Physical Science*, **2022**, 100920	6.1	1
111	Arsenite-loaded albumin nanoparticles for targeted synergistic chemo-photothermal therapy of HCC. *Biomaterials Science*, **2021**,	7.4	3
110	Hypoxia-Activated Prodrug Enabling Synchronous Chemotherapy and HIF-1 Downregulation for Tumor Treatment. *Bioconjugate Chemistry*, **2021**, 32, 983-990	6.3	6
109	Activatable F MRI Nanoprobes for Visualization of Biological Targets in Living Subjects. *Advanced Materials*, **2021**, e2005657	24	13
108	Synergistic Enhancement of Fluorescence and Magnetic Resonance Signals Assisted by Albumin Aggregate for Dual-Modal Imaging. *ACS Nano*, **2021**, 15, 9924-9934	16.7	5
107	An integrative multi-omics approach uncovers the regulatory role of CDK7 and CDK4 in autophagy activation induced by silica nanoparticles. *Autophagy*, **2021**, 17, 1426-1447	10.2	8
106	Activatable Mitochondria-Targeting Organoarsenic Prodrugs for Bioenergetic Cancer Therapy. *Angewandte Chemie - International Edition*, **2021**, 60, 1403-1410	16.4	29
105	Activatable Mitochondria-Targeting Organoarsenic Prodrugs for Bioenergetic Cancer Therapy. *Angewandte Chemie*, **2021**, 133, 1423-1430	3.6	2
104	Imaging Beyond Seeing: Early Prognosis of Cancer Treatment.. *Small Methods*, **2021**, 5, e2001025	12.8	5
103	Small functionalized iron oxide nanoparticles for dual brain magnetic resonance imaging and fluorescence imaging. *RSC Advances*, **2021**, 11, 12867-12875	3.7	2
102	Deep-tissue real-time imaging of drug-induced liver injury with peroxynitrite-responsive F MRI nanoprobes. *Chemical Communications*, **2021**, 57, 9622-9625	5.8	3
101	A camptothecin prodrug induces mitochondria-mediated apoptosis in cancer cells with cascade activations. *Chemical Communications*, **2021**, 57, 11033-11036	5.8	2
100	Improving the sensitivity of contrast-enhanced MRI and sensitive diagnosing tumors with ultralow doses of MnO octahedrons. *Theranostics*, **2021**, 11, 6966-6982	12.1	3
99	Fluorinated Ionic Liquid Based Multicolor F MRI Nanoprobes for In Vivo Sensing of Multiple Biological Targets.. *Advanced Healthcare Materials*, **2021**, e2102079	10.1	3
98	Activatable Multiplexed F Magnetic Resonance Imaging Visualizes Reactive Oxygen and Nitrogen Species in Drug-Induced Acute Kidney Injury. *Analytical Chemistry*, **2021**,	7.8	5

97	Reversible redox-responsive H/F MRI molecular probes. *Chemical Communications*, **2020**, 56, 4106-4109	5.8	19
96	A Fluorinated Ionic Liquid-Based Activatable F MRI Platform Detects Biological Targets. *CheM*, **2020**, 6, 1134-1148	16.2	21
95	Recent advances of nanomedicines for liver cancer therapy. *Journal of Materials Chemistry B*, **2020**, 8, 3747-3771	7.3	19
94	Cascaded Multiresponsive Self-Assembled F MRI Nanoprobes with Redox-Triggered Activation and NIR-Induced Amplification. *Nano Letters*, **2020**, 20, 363-371	11.5	29
93	DOTA-Branched Organic Frameworks as Giant and Potent Metal Chelators. *Journal of the American Chemical Society*, **2020**, 142, 198-206	16.4	26
92	Fluorinated Gadolinium Chelate-Grafted Nanoconjugates for Contrast-Enhanced -Weighted H and pH-Activatable F Dual-Modal MRI. *Analytical Chemistry*, **2020**, 92, 16293-16300	7.8	6
91	Enhancing Chemotherapy of p53-Mutated Cancer through Ubiquitination-Dependent Proteasomal Degradation of Mutant p53 Proteins by Engineered ZnFe-4 Nanoparticles. *Advanced Functional Materials*, **2020**, 30, 2001994	15.6	3
90	Sensitive Contrast-Enhanced Magnetic Resonance Imaging of Orthotopic and Metastatic Hepatic Tumors by Ultralow Doses of Zinc Ferrite Octapods. *Chemistry of Materials*, **2019**, 31, 1381-1390	9.6	16
89	An Albumin-Binding T- T Dual-Modal MRI Contrast Agents for Improved Sensitivity and Accuracy in Tumor Imaging. *Bioconjugate Chemistry*, **2019**, 30, 1821-1829	6.3	18
88	A gadolinium-complex-based theranostic prodrug for in vivo tumour-targeted magnetic resonance imaging and therapy. *Chemical Communications*, **2019**, 55, 4546-4549	5.8	30
87	An extracellular pH-driven targeted multifunctional manganese arsenite delivery system for tumor imaging and therapy. *Biomaterials Science*, **2019**, 7, 2480-2490	7.4	12
86	Structure-Relaxivity Relationships of Magnetic Nanoparticles for Magnetic Resonance Imaging. *Advanced Materials*, **2019**, 31, e1804567	24	166
85	Surface Engineering to Boost the Performance of Nanoparticle-Based T1 Contrast Agents. *European Journal of Inorganic Chemistry*, **2019**, 2019, 3801-3809	2.3	10
84	Versatile Octapod-Shaped Hollow Porous Manganese(II) Oxide Nanoplatform for Real-Time Visualization of Cargo Delivery. *Nano Letters*, **2019**, 19, 5394-5402	11.5	36
83	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. *Theranostics*, **2019**, 9, 4391-4408	12.1	32
82	Pro-Death or Pro-Survival: Contrasting Paradigms on Nanomaterial-Induced Autophagy and Exploitations for Cancer Therapy. *Accounts of Chemical Research*, **2019**, 52, 3164-3176	24.3	37
81	A fluorinated bihydrazide conjugate for activatable sensing and imaging of hypochlorous acid by F NMR/MRI. *Chemical Communications*, **2019**, 55, 12455-12458	5.8	14
80	Targeted arsenite-loaded magnetic multifunctional nanoparticles for treatment of hepatocellular carcinoma. *Nanotechnology*, **2019**, 30, 175101	3.4	23

79	Facile synthesis of aquo-cisplatin arsenite multidrug nanocomposites for overcoming drug resistance and efficient combination therapy. *Biomaterials Science*, **2018**, 7, 262-271	7.4	15
78	The Roles of Morphology on the Relaxation Rates of Magnetic Nanoparticles. *ACS Nano*, **2018**, 12, 4605-4614	14.7	42
77	A Self-Assembled Biocompatible Nanoplatform for Multimodal MR/Fluorescence Imaging Assisted Photothermal Therapy and Prognosis Analysis. *Small*, **2018**, 14, e1801612	11	32
76	Surface manganese substitution in magnetite nanocrystals enhances T contrast ability by increasing electron spin relaxation. *Journal of Materials Chemistry B*, **2018**, 6, 401-413	7.3	21
75	Gold nanoparticles impair autophagy flux through shape-dependent endocytosis and lysosomal dysfunction. *Journal of Materials Chemistry B*, **2018**, 6, 8127-8136	7.3	22
74	Impact of Morphology on Iron Oxide Nanoparticles-Induced Inflammasome Activation in Macrophages. *ACS Applied Materials & Interfaces*, **2018**, 10, 41197-41206	9.5	31
73	Biodegradable and Renal-Clearable Hollow Porous Iron Oxide Nanoboxes for in Vivo Imaging. *Chemistry of Materials*, **2018**, 30, 7950-7961	9.6	26
72	Iron-oxide-based twin nanoplates with strong T relaxation shortening for contrast-enhanced magnetic resonance imaging. *Nanoscale*, **2018**, 10, 18398-18406	7.7	19
71	Albumin-based nanoparticles loaded with hydrophobic gadolinium chelates as T-T dual-mode contrast agents for accurate liver tumor imaging. *Nanoscale*, **2017**, 9, 4516-4523	7.7	42
70	Manganese-iron layered double hydroxide: a theranostic nanoplatform with pH-responsive MRI contrast enhancement and drug release. *Journal of Materials Chemistry B*, **2017**, 5, 3629-3633	7.3	68
69	Artificial local magnetic field inhomogeneity enhances T relaxivity. *Nature Communications*, **2017**, 8, 15468	17.4	87
68	Activatable T Relaxivity Recovery Nanoconjugates for Kinetic and Sensitive Analysis of Matrix Metalloprotease 2. *ACS Applied Materials & Interfaces*, **2017**, 9, 21688-21696	9.5	13
67	Activated Surface Charge-Reversal Manganese Oxide Nanocubes with High Surface-to-Volume Ratio for Accurate Magnetic Resonance Tumor Imaging. *Advanced Functional Materials*, **2017**, 27, 1700978	15.6	39
66	Composition Tunable Manganese Ferrite Nanoparticles for Optimized T2 Contrast Ability. *Chemistry of Materials*, **2017**, 29, 3038-3047	9.6	68
65	Silica sub-microspheres induce autophagy in an endocytosis dependent manner. *RSC Advances*, **2017**, 7, 12496-12502	3.7	10
64	Arsenite-loaded nanoparticles inhibit the invasion and metastasis of a hepatocellular carcinoma: in vitro and in vivo study. *Nanotechnology*, **2017**, 28, 445101	3.4	14
63	Geometrical confinement directed albumin-based nanoprobes as enhanced T contrast agents for tumor imaging. *Journal of Materials Chemistry B*, **2017**, 5, 8004-8012	7.3	13
62	Arsenite-loaded nanoparticles inhibit PARP-1 to overcome multidrug resistance in hepatocellular carcinoma cells. *Scientific Reports*, **2016**, 6, 31009	4.9	26

61	Geometrically confined ultrasmall gadolinium oxide nanoparticles boost the T(1) contrast ability. *Nanoscale*, **2016**, 8, 3768-74	7.7	53
60	A facile route to core-shell nanoparticulate formation of arsenic trioxide for effective solid tumor treatment. *Nanoscale*, **2016**, 8, 4373-80	7.7	25
59	Cation Exchange of Anisotropic-Shaped Magnetite Nanoparticles Generates High-Relaxivity Contrast Agents for Liver Tumor Imaging. *Chemistry of Materials*, **2016**, 28, 3497-3506	9.6	35
58	Water bridge coordination on the metal-rich facets of GdO nanoplates confers high T relaxivity. *Nanoscale*, **2016**, 8, 17887-17894	7.7	26
57	Anisotropic Shaped Iron Oxide Nanostructures: Controlled Synthesis and Proton Relaxation Shortening Effects. *Chemistry of Materials*, **2015**, 27, 3505-3515	9.6	126
56	Europium-engineered iron oxide nanocubes with high T1 and T2 contrast abilities for MRI in living subjects. *Nanoscale*, **2015**, 7, 6843-50	7.7	60
55	Real-time monitoring in vivo behaviors of theranostic nanoparticles by contrast-enhanced T1 imaging. *Analytical Chemistry*, **2015**, 87, 8941-8	7.8	20
54	The cytotoxicity of gold nanoparticles is dispersity-dependent. *Dalton Transactions*, **2015**, 44, 17911-5	4.3	17
53	Facile integration of multiple magnetite nanoparticles for theranostics combining efficient MRI and thermal therapy. *Nanoscale*, **2015**, 7, 2667-75	7.7	36
52	Kinetic and sensitive analysis of tyrosinase activity using electron transfer complexes: in vitro and intracellular study. *Small*, **2015**, 11, 862-70	11	46
51	Nanoparticles modulate autophagic effect in a dispersity-dependent manner. *Scientific Reports*, **2015**, 5, 14361	4.9	56
50	A Protein-Corona-Free T(1)-T(2) Dual-Modal Contrast Agent for Accurate Imaging of Lymphatic Tumor Metastasis. *ACS Applied Materials & Interfaces*, **2015**, 7, 28286-93	9.5	16
49	Surface and interfacial engineering of iron oxide nanoplates for highly efficient magnetic resonance angiography. *ACS Nano*, **2015**, 9, 3012-22	16.7	99
48	Real-time monitoring of arsenic trioxide release and delivery by activatable T(1) imaging. *ACS Nano*, **2015**, 9, 2749-59	16.7	89
47	A multiple gadolinium complex decorated fullerene as a highly sensitive T(1) contrast agent. *Chemical Communications*, **2015**, 51, 4390-3	5.8	53
46	Highly magnetic iron carbide nanoparticles as effective T(2) contrast agents. *Nanoscale*, **2014**, 6, 726-30	7.7	66
45	Tunable T1 and T2 contrast abilities of manganese-engineered iron oxide nanoparticles through size control. *Nanoscale*, **2014**, 6, 10404-12	7.7	113
44	Silica nanovehicles endow arsenic trioxide with an ability to effectively treat cancer cells and solid tumors. *Journal of Materials Chemistry B*, **2014**, 2, 6313-6323	7.3	25

43	Interplay between longitudinal and transverse contrasts in Fe3O4 nanoplates with (111) exposed surfaces. *ACS Nano*, **2014**, 8, 7976-85	16.7	128
42	NMR-based metabonomic analysis of MnO-embedded iron oxide nanoparticles as potential dual-modal contrast agents. *Journal of Nanoparticle Research*, **2014**, 16, 1	2.3	9
41	Multifunctional Fe□□@polydopamine core-shell nanocomposites for intracellular mRNA detection and imaging-guided photothermal therapy. *ACS Nano*, **2014**, 8, 3876-83	16.7	502
40	A fluorescent switch for sequentially and selectively sensing copper(II) and L-histidine in vitro and in living cells. *Analyst, The*, **2014**, 139, 3360-4	5	31
39	Theranostic Au cubic nano-aggregates as potential photoacoustic contrast and photothermal therapeutic agents. *Theranostics*, **2014**, 4, 534-45	12.1	33
38	Octapod iron oxide nanoparticles as high-performance T□ contrast agents for magnetic resonance imaging. *Nature Communications*, **2013**, 4, 2266	17.4	331
37	Facile, sensitive, and ratiometric detection of mercuric ions using GSH-capped semiconductor quantum dots. *Analyst, The*, **2013**, 138, 3230-7	5	32
36	Gadolinium embedded iron oxide nanoclusters as T1-T2 dual-modal MRI-visible vectors for safe and efficient siRNA delivery. *Nanoscale*, **2013**, 5, 8098-104	7.7	42
35	Understanding the metabolic fate and assessing the biosafety of MnO nanoparticles by metabonomic analysis. *Nanotechnology*, **2013**, 24, 455102	3.4	37
34	Applications and potential toxicity of magnetic iron oxide nanoparticles. *Small*, **2013**, 9, 1533-45	11	371
33	Engineered iron-oxide-based nanoparticles as enhanced T1 contrast agents for efficient tumor imaging. *ACS Nano*, **2013**, 7, 3287-96	16.7	195
32	DOPAMINE SERVES AS A STABLE SURFACE MODIFIER FOR IRON OXIDE NANOPARTICLES. *Journal of Molecular and Engineering Materials*, **2013**, 01, 1350001	1.3	3
31	Nanoprobes for in□vitro diagnostics of cancer and infectious diseases. *Biomaterials*, **2012**, 33, 189-206	15.6	110
30	Intracellular self-assembly of nanoparticles for enhancing cell uptake. *Chemical Communications*, **2012**, 48, 9738-40	5.8	37
29	A synergistically enhanced T(1) -T(2) dual-modal contrast agent. *Advanced Materials*, **2012**, 24, 6223-8	24	232
28	Magnetite nanoparticles as smart carriers to manipulate the cytotoxicity of anticancer drugs: magnetic control and pH-responsive release. *Journal of Materials Chemistry*, **2012**, 22, 15717		88
27	A novel clinically translatable fluorescent nanoparticle for targeted molecular imaging of tumors in living subjects. *Nano Letters*, **2012**, 12, 281-6	11.5	111
26	Synthesis of Nanomaterials as a Platform for Molecular Imaging **2011**, 25-45		2

25	Nanoparticle Surface Modification and Bioconjugation **2011**, 47-73		1
24	Multifunctional Ag@Fe2O3 yolk□shell nanoparticles for simultaneous capture, kill, and removal of pathogen. *Journal of Materials Chemistry*, **2011**, 21, 16344		78
23	Affibody-based nanoprobes for HER2-expressing cell and tumor imaging. *Biomaterials*, **2011**, 32, 2141-8	15.6	113
22	Near-infrared quantum dots as optical probes for tumor imaging. *Current Topics in Medicinal Chemistry*, **2010**, 10, 1147-57	3	55
21	Colloidosome-based synthesis of a multifunctional nanostructure of silver and hollow iron oxide nanoparticles. *Langmuir*, **2010**, 26, 4184-7	4	62
20	Near-infrared fluorescent nanoprobes for cancer molecular imaging: status and challenges. *Trends in Molecular Medicine*, **2010**, 16, 574-83	11.5	186
19	In vivo tumor-targeted fluorescence imaging using near-infrared non-cadmium quantum dots. *Bioconjugate Chemistry*, **2010**, 21, 604-9	6.3	124
18	Low-temperature dynamics of magnetic nanoshells. *Europhysics Letters*, **2010**, 91, 57006	1.6	0
17	PET/NIRF/MRI triple functional iron oxide nanoparticles. *Biomaterials*, **2010**, 31, 3016-22	15.6	410
16	Ultrasmall near-infrared non-cadmium quantum dots for in vivo tumor imaging. *Small*, **2010**, 6, 256-61	11	155
15	Applications of nanomaterials inside cells. *Nano Today*, **2009**, 4, 37-51	17.9	200
14	Multifunctional magnetic nanoparticles: design, synthesis, and biomedical applications. *Accounts of Chemical Research*, **2009**, 42, 1097-107	24.3	1505
13	Color-tunable fluorescent-magnetic core/shell multifunctional nanocrystals. *Chemical Communications*, **2009**, 4025-7	5.8	23
12	Multifunctional yolk-shell nanoparticles: a potential MRI contrast and anticancer agent. *Journal of the American Chemical Society*, **2008**, 130, 11828-33	16.4	336
11	Intracellular spatial control of fluorescent magnetic nanoparticles. *Journal of the American Chemical Society*, **2008**, 130, 3710-1	16.4	218
10	FePt@CoS(2) yolk-shell nanocrystals as a potent agent to kill HeLa cells. *Journal of the American Chemical Society*, **2007**, 129, 1428-33	16.4	363
9	Self-assembled hybrid nanofibers confer a magnetorheological supramolecular hydrogel. *Tetrahedron*, **2007**, 63, 7349-7357	2.4	38
8	Fabrication of High Thermal Conductivity Carbon Nanotube Arrays by Self Assembled Fe 3 O 4 particles. *CIRP Annals - Manufacturing Technology*, **2007**, 56, 245-248	4.9	11

7	Fluorescent magnetic nanocrystals by sequential addition of reagents in a one-pot reaction: a simple preparation for multifunctional nanostructures. *Journal of the American Chemical Society*, **2007**, 129, 11928-35	16.4	155
6	Magnetic-dipolar-interaction-induced self-assembly affords wires of hollow nanocrystals of cobalt selenide. *Angewandte Chemie - International Edition*, **2006**, 45, 1220-3	16.4	213
5	Magnetic-Dipolar-Interaction-Induced Self-Assembly Affords Wires of Hollow Nanocrystals of Cobalt Selenide. *Angewandte Chemie*, **2006**, 118, 1242-1245	3.6	36
4	Combining Fluorescent Probes and Biofunctional Magnetic Nanoparticles for Rapid Detection of Bacteria in Human Blood. *Advanced Materials*, **2006**, 18, 3145-3148	24	150
3	A biocompatible method of decorporation: bisphosphonate-modified magnetite nanoparticles to remove uranyl ions from blood. *Journal of the American Chemical Society*, **2006**, 128, 13358-9	16.4	205
2	Thermal decomposition of ethylenediaminetetraacetic acid in the presence of 1,2-phenylenediamine and hydrochloric acid. *Journal of the Brazilian Chemical Society*, **2006**, 17, 880-885	1.5	12
1	Heterodimers of nanoparticles: formation at a liquid-liquid interface and particle-specific surface modification by functional molecules. *Journal of the American Chemical Society*, **2005**, 127, 34-5	16.4	509