

Hua Ai

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

4,302
citations

201674

27
h-index

138484

58
g-index

63
all docs

63
docs citations

63
times ranked

7745
citing authors

#	ARTICLE	IF	CITATIONS
1	Multifunctional Polymeric Micelles as Cancer-Targeted, MRI-Ultrasensitive Drug Delivery Systems. <i>Nano Letters</i> , 2006, 6, 2427-2430.	9.1	1,180
2	Surface-Engineered Magnetic Nanoparticle Platforms for Cancer Imaging and Therapy. <i>Accounts of Chemical Research</i> , 2011, 44, 883-892.	15.6	520
3	Manganese ferrite nanoparticle micellar nanocomposites as MRI contrast agent for liver imaging. <i>Biomaterials</i> , 2009, 30, 2919-2928.	11.4	325
4	Superparamagnetic iron oxide nanoparticles for MR imaging and therapy: design considerations and clinical applications. <i>Current Opinion in Pharmacology</i> , 2014, 18, 18-27.	3.5	251
5	Layer-by-layer capsules for magnetic resonance imaging and drug delivery. <i>Advanced Drug Delivery Reviews</i> , 2011, 63, 772-788.	13.7	161
6	Simultaneous dual-colour tracking lipid droplets and lysosomes dynamics using a fluorescent probe. <i>Chemical Science</i> , 2019, 10, 2342-2348.	7.4	132
7	Low molecular weight alkyl-polycation wrapped magnetite nanoparticle clusters as MRI probes for stem cell labeling and in vivo imaging. <i>Biomaterials</i> , 2011, 32, 528-537.	11.4	126
8	Surface and Interfacial Engineering of Iron Oxide Nanoplates for Highly Efficient Magnetic Resonance Angiography. <i>ACS Nano</i> , 2015, 9, 3012-3022.	14.6	124
9	Disorganization of white matter architecture in major depressive disorder: a meta-analysis of diffusion tensor imaging with tract-based spatial statistics. <i>Scientific Reports</i> , 2016, 6, 21825.	3.3	109
10	Iron oxide nanoparticles promote macrophage autophagy and inflammatory response through activation of toll-like Receptor-4 signaling. <i>Biomaterials</i> , 2019, 203, 23-30.	11.4	102
11	Amphiphilic starlike dextran wrapped superparamagnetic iron oxide nanoparticle clusters as effective magnetic resonance imaging probes. <i>Biomaterials</i> , 2013, 34, 1193-1203.	11.4	89
12	Delivery of siRNA by MRI-visible nanovehicles to overcome drug resistance in MCF-7/ADR human breast cancer cells. <i>Biomaterials</i> , 2014, 35, 9495-9507.	11.4	67
13	Nonclustered magnetite nanoparticle encapsulated biodegradable polymeric micelles with enhanced properties for in vivo tumor imaging. <i>Journal of Materials Chemistry</i> , 2011, 21, 4796.	6.7	62
14	Intrinsic disruption of white matter microarchitecture in first-episode, drug-naive major depressive disorder: A voxel-based meta-analysis of diffusion tensor imaging. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2017, 76, 179-187.	4.8	56
15	Magnetofection: Magic magnetic nanoparticles for efficient gene delivery. <i>Chinese Chemical Letters</i> , 2020, 31, 3041-3046.	9.0	56
16	Rigid Mn(II) chelate as efficient MRI contrast agent for vascular imaging. <i>Dalton Transactions</i> , 2012, 41, 14480.	3.3	51
17	Stimulus-Responsive Nanoparticle Magnetic Resonance Imaging Contrast Agents: Design Considerations and Applications. <i>Advanced Healthcare Materials</i> , 2021, 10, e2001091.	7.6	51
18	Albumin-based nanoparticles loaded with hydrophobic gadolinium chelates as T ₁ -weighted dual-mode contrast agents for accurate liver tumor imaging. <i>Nanoscale</i> , 2017, 9, 4516-4523.	5.6	50

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19	Self-Assembly of Magnetite Nanocrystals with Amphiphilic Polyethylenimine: Structures and Applications in Magnetic Resonance Imaging. <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 378-385.	0.9	49
20	Negatively Charged Magnetite Nanoparticle Clusters as Efficient MRI Probes for Dendritic Cell Labeling and In Vivo Tracking. <i>Advanced Functional Materials</i> , 2015, 25, 3581-3591.	14.9	43
21	Abnormal dynamic functional connectivity of amygdalar subregions in untreated patients with first-episode major depressive disorder. <i>Journal of Psychiatry and Neuroscience</i> , 2018, 43, 262-272.	2.4	42
22	Superparamagnetic MRI probes for in vivo tracking of dendritic cell migration with a clinical 3T scanner. <i>Biomaterials</i> , 2015, 58, 63-71.	11.4	39
23	Biodegradable and Renal-Clearable Hollow Porous Iron Oxide Nanoboxes for in Vivo Imaging. <i>Chemistry of Materials</i> , 2018, 30, 7950-7961.	6.7	39
24	Bioactive iron oxide nanoparticles suppress osteoclastogenesis and ovariectomy-induced bone loss through regulating the TRAF6-p62-CYLD signaling complex. <i>Acta Biomaterialia</i> , 2020, 103, 281-292.	8.3	38
25	Reduction of polyethylenimine-coated iron oxide nanoparticles induced autophagy and cytotoxicity by lactosylation. <i>International Journal of Energy Production and Management</i> , 2016, 3, 223-229.	3.7	29
26	Integration of Indocyanine Green Analogs as Near-Infrared Fluorescent Carrier for Precise Imaging-Guided Gene Delivery. <i>Small</i> , 2020, 16, e1906538.	10.0	29
27	Assembly-Controlled Magnetic Nanoparticle Clusters as MRI Contrast Agents. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 2533-2542.	5.2	28
28	Multivalent manganese complex decorated amphiphilic dextran micelles as sensitive MRI probes. <i>Journal of Materials Chemistry B</i> , 2015, 3, 1470-1473.	5.8	26
29	A novel fluorescent pH probe with valuable pK _a based on a twisted intramolecular charge transfer mechanism, and its applications in cell imaging. <i>RSC Advances</i> , 2014, 4, 36849-36853.	3.6	25
30	Lactosylated N-Alkyl polyethylenimine coated iron oxide nanoparticles induced autophagy in mouse dendritic cells. <i>International Journal of Energy Production and Management</i> , 2018, 5, 141-149.	3.7	25
31	Bombesin functionalized ⁶⁴ Cu-copper sulfide nanoparticles for targeted imaging of orthotopic prostate cancer. <i>Nanomedicine</i> , 2018, 13, 1695-1705.	3.3	23
32	Magnetic resonance imaging probes for labeling of chondrocyte cells. <i>Journal of Materials Science: Materials in Medicine</i> , 2011, 22, 601-606.	3.6	22
33	Mesenchymal Stem Cells Combined with Hepatocyte Growth Factor Therapy for Attenuating Ischaemic Myocardial Fibrosis: Assessment using Multimodal Molecular Imaging. <i>Scientific Reports</i> , 2016, 6, 33700.	3.3	22
34	White matter volume loss in amyotrophic lateral sclerosis: A meta-analysis of voxel-based morphometry studies. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2018, 83, 110-117.	4.8	21
35	Iron oxide nanoparticles promote vascular endothelial cells survival from oxidative stress by enhancement of autophagy. <i>International Journal of Energy Production and Management</i> , 2019, 6, 221-229.	3.7	21
36	Magnetic Resonance Imaging for Monitoring of Magnetic Polyelectrolyte Capsule In Vivo Delivery. <i>BioNanoScience</i> , 2014, 4, 59-70.	3.5	20

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37	Phosphorylation of LIFR promotes prostate cancer progression by activating the AKT pathway. <i>Cancer Letters</i> , 2019, 451, 110-121.	7.2	20
38	Proanthocyanidin-crosslinked collagen/konjac glucomannan hydrogel with improved mechanical properties and MRI trackable biodegradation for potential tissue engineering scaffolds. <i>Journal of Materials Chemistry B</i> , 2020, 8, 316-331.	5.8	20
39	Dual regulation of osteoclastogenesis and osteogenesis for osteoporosis therapy by iron oxide hydroxyapatite core/shell nanocomposites. <i>International Journal of Energy Production and Management</i> , 2021, 8, rbab027.	3.7	20
40	Super-resolution imaging and real-time tracking lysosome in living cells by a fluorescent probe. <i>Science China Chemistry</i> , 2018, 61, 483-489.	8.2	18
41	The effect of neighbor distance of magnetic nanoparticle clusters on magnetic resonance relaxation properties. <i>Science Bulletin</i> , 2016, 61, 1023-1030.	9.0	16
42	Amphiphilic dextran/magnetite nanocomposites as magnetic resonance imaging probes. <i>Science Bulletin</i> , 2009, 54, 2925-2933.	1.7	15
43	Cell labeling efficiency of layer-by-layer self-assembly modified silica nanoparticles. <i>Journal of Materials Research</i> , 2009, 24, 1317-1321.	2.6	15
44	Near-infrared fluorescent amphiphilic polycation wrapped magnetite nanoparticles as multimodality probes. <i>Science Bulletin</i> , 2012, 57, 4012-4018.	1.7	14
45	Photoinduced Superhydrophilicity of Gd-Doped TiO_2 Ellipsoidal Nanoparticles Boosts Contrast Enhancement for Magnetic Resonance Imaging. <i>Nano Letters</i> , 2022, 22, 3219-3227.	9.1	14
46	Delivery of siHIF1 α to Reconstruct Tumor Normoxic Microenvironment for Effective Chemotherapeutic and Photodynamic Anticancer Treatments. <i>Small</i> , 2021, 17, e2100609.	10.0	13
47	Self-assembled superparamagnetic nanoparticles as MRI contrast agents” A review. <i>Chinese Physics B</i> , 2015, 24, 127506.	1.4	12
48	Stimuli-Responsive Nanotheranostics. <i>Advanced Healthcare Materials</i> , 2021, 10, e2100243.	7.6	11
49	Integration of PEG-conjugated gadolinium complex and superparamagnetic iron oxide nanoparticles as dual-mode magnetic resonance imaging probes. <i>International Journal of Energy Production and Management</i> , 2021, 8, rbab064.	3.7	11
50	Tetraphenylethylene-conjugated polycation covered iron oxide nanoparticles for magnetic resonance/optical dual-mode imaging. <i>International Journal of Energy Production and Management</i> , 2021, 8, rbab023.	3.7	10
51	PEGylated amphiphilic polymeric manganese(II) complexes as magnetic resonance angiographic agents. <i>Journal of Materials Chemistry B</i> , 2022, 10, 2204-2214.	5.8	9
52	Poly(ethylene glycol) modified Mn^{2+} complexes as contrast agents with a prolonged observation window in rat MRA. <i>RSC Advances</i> , 2017, 7, 54603-54609.	3.6	8
53	Surface carboxylation of iron oxide nanoparticles brings reduced macrophage inflammatory response through inhibiting macrophage autophagy. <i>International Journal of Energy Production and Management</i> , 2022, 9, .	3.7	5
54	Control of the interparticle spacing in superparamagnetic iron oxide nanoparticle clusters by surface ligand engineering. <i>Chinese Physics B</i> , 2016, 25, 077504.	1.4	4

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55	Accurate identification of myocardial viability after myocardial infarction with novel manganese chelate-based MR imaging. <i>NMR in Biomedicine</i> , 2019, 32, e4158.	2.8	4
56	Controlled aggregation of amphiphilic aggregation-induced emission polycation and superparamagnetic iron oxide nanoparticles as fluorescence/magnetic resonance imaging probes. <i>Journal of Applied Polymer Science</i> , 2020, 137, 48760.	2.6	4
57	MRI Tracking of Dendritic Cells Loaded with Superparamagnetic Iron Oxide Nanoparticles. <i>Methods in Molecular Biology</i> , 2020, 2126, 107-116.	0.9	4
58	Tracking Tumor Cells in Lymphatics in a Mice Xenograft Model by Magnetic Resonance Imaging. <i>Molecular Imaging</i> , 2012, 11, 7290.2012.00007.	1.4	2
59	Multifunctional Probes for Multimodality Imaging of Cancer. , 2012, , 863-903.		0
60	MRI-Visible Nanovehicle for Efficient siRNA Delivery. <i>Methods in Molecular Biology</i> , 2021, 2282, 195-208.	0.9	0