

<p>Manganese Oxide Nanoparticles As MRI Contrast Agents For
Imaging And Therapy</p>

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Manganese dioxide (MnO ₂) based nanomaterials for cancer therapies and theranostics. Journal of Drug Targeting, 2021, 29, 911-924.	2.1	29
2	<p>Multifunctional Hf/Mn-TCPP Metal-Organic Framework Nanoparticles for Triple-Modality Imaging-Guided PTT/RT Synergistic Cancer Therapy</p>. International Journal of Nanomedicine, 2020, Volume 15, 7687-7702.	3.3	48
3	Recent Developments in Pathological pH-Responsive Polymeric Nanobiosensors for Cancer Theranostics. Frontiers in Bioengineering and Biotechnology, 2020, 8, 601586.	2.0	7
4	Facile synthesis of Au@Mn ₃ O ₄ magneto-plasmonic nanoflowers for T ₁ -weighted magnetic resonance imaging and photothermal therapy of cancer. Journal of Materials Chemistry B, 2020, 8, 8356-8367.	2.9	22
5	Nanostructured manganese dioxide for anticancer applications: preparation, diagnosis, and therapy. Nanoscale, 2020, 12, 17982-18003.	2.8	57
6	Feasibility of removable balloon implant for simultaneous magnetic nanoparticle heating and HDR brachytherapy of brain tumor resection cavities. International Journal of Hyperthermia, 2020, 37, 1189-1201.	1.1	3
7	Application of Nanomaterials in Biomedical Imaging and Cancer Therapy. Nanomaterials, 2020, 10, 1700.	1.9	216
8	Smart magnetic nanopowder based on the manganite perovskite for local hyperthermia. RSC Advances, 2020, 10, 30907-30916.	1.7	19
9	Photothermal/sonodynamic therapy of melanoma tumor by a gold/manganese dioxide nanocomposite: In vitro and in vivo studies. Photodiagnosis and Photodynamic Therapy, 2020, 31, 101846.	1.3	27
10	Two-Dimensional Theranostic Nanomaterials in Cancer Treatment: State of the Art and Perspectives. Cancers, 2020, 12, 1657.	1.7	15
11	RGD-PEG-PLA Delivers MiR-133 to Infarct Lesions of Acute Myocardial Infarction Model Rats for Cardiac Protection. Pharmaceutics, 2020, 12, 575.	2.0	22
12	Recent advances in the redox-responsive drug delivery nanoplatfoms: A chemical structure and physical property perspective. Materials Science and Engineering C, 2021, 118, 111536.	3.8	75
13	MRI-traceable theranostic nanoparticles for targeted cancer treatment. Theranostics, 2021, 11, 579-601.	4.6	62
14	MTX-Loaded Dual Thermoresponsive and pH-Responsive Magnetic Hydrogel Nanocomposite Particles for Combined Controlled Drug Delivery and Hyperthermia Therapy of Cancer. Molecular Pharmaceutics, 2021, 18, 275-284.	2.3	45
15	Tuneable manganese oxide nanoparticle based theranostic agents for potential diagnosis and drug delivery. Nanoscale Advances, 2021, 3, 4052-4061.	2.2	7
16	Manganese-based advanced nanoparticles for biomedical applications: future opportunity and challenges. Nanoscale, 2021, 13, 16405-16426.	2.8	32
18	Surface morphology and payload synergistically caused an enhancement of the longitudinal relaxivity of a Mn ₃ O ₄ /PtOx nanocomposite for magnetic resonance tumor imaging. Biomaterials Science, 2021, 9, 2732-2742.	2.6	6
19	Recent nanotheranostics applications for cancer therapy and diagnosis: A review. IET Nanobiotechnology, 2021, 15, 247-256.	1.9	12

#	ARTICLE	IF	CITATIONS
20	A Contrast Examination of Proinflammatory Effects on Kidney Function for \hat{I}^3 -Fe ₂ O ₃ NP and Gadolinium Dimethylglumine. <i>International Journal of Nanomedicine</i> , 2021, Volume 16, 2271-2282.	3.3	4
21	Manganese Ferrite Nanoparticles Enhance the Sensitivity of Hepa1-6 Hepatocellular Carcinoma to Radiation by Remodeling Tumor Microenvironments. <i>International Journal of Molecular Sciences</i> , 2021, 22, 2637.	1.8	14
22	Gadolinium-chelate functionalized magnetic CuFeSe ₂ ternary nanocrystals for T1-T2 dual MRI and CT imaging in vitro and in vivo. <i>Materials Research Express</i> , 2021, 8, 045001.	0.8	4
23	Highly sensitive T ₁ -T ₂ dual-mode MRI probe based on ultra-small gadolinium oxide-decorated iron oxide nanocrystals. <i>Biomedical Materials (Bristol)</i> , 2021, 16, 044104.	1.7	5
24	Precise Cancer Anti-acid Therapy Monitoring Using pH-Sensitive MnO ₂ @BSA Nanoparticles by Magnetic Resonance Imaging. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 18604-18618.	4.0	19
25	A Tumor Microenvironment Responsive Nanotheranostics Agent for Magnetic Resonance Imaging and Synergistic Photodynamic Therapy/Photothermal Therapy of Liver Cancer. <i>Frontiers in Chemistry</i> , 2021, 9, 650899.	1.8	6
26	Exploring the Potential of Metallodrugs as Chemotherapeutics for Triple Negative Breast Cancer. <i>Chemistry - A European Journal</i> , 2021, 27, 8891-8917.	1.7	32
27	Biodegradability of Micro/Nanomotors: Challenges and Opportunities. <i>Advanced Healthcare Materials</i> , 2021, 10, e2100335.	3.9	15
28	Engineering lattice defects in 2D nanomaterials for enhancing biomedical performances. <i>Particuology</i> , 2022, 64, 121-133.	2.0	7
29	Tumor microenvironment/NIR-responsive carbon monoxide delivery with hollow mesoporous CuS nanoparticles for MR imaging guided synergistic therapy. <i>Materials and Design</i> , 2021, 205, 109731.	3.3	15
30	Perfluorooctyl bromide nanoemulsions holding MnO ₂ nanoparticles with dual-modality imaging and glutathione depletion enhanced HIFU-eliciting tumor immunogenic cell death. <i>Acta Pharmaceutica Sinica B</i> , 2022, 12, 967-981.	5.7	16
31	Ultrasmall superparamagnetic iron oxide nanoparticles: A next generation contrast agent for magnetic resonance imaging. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2022, 14, e1740.	3.3	60
32	Nanotechnology-Based Strategies for Early Diagnosis of Central Nervous System Disorders. <i>Advanced NanoBiomed Research</i> , 2021, 1, 2100008.	1.7	16
33	Application of ultrasound molecular imaging based on compressed sensing reconstruction algorithm to phase change drug-loaded PLGA nanoparticles targeting breast cancer MCF-7 Cells. <i>Pakistan Journal of Medical Sciences</i> , 2021, 37, 1610-1614.	0.3	2
34	Heat-Confined Tumor-Docking Reversible Thermogel Potentiates Systemic Antitumor Immune Response During Near-Infrared Photothermal Ablation in Triple-Negative Breast Cancer. <i>Advanced Healthcare Materials</i> , 2021, 10, e2100907.	3.9	19
35	Polymeric magnetic nanoparticles: a multitargeting approach for brain tumour therapy and imaging. <i>Drug Delivery and Translational Research</i> , 2022, 12, 1588-1604.	3.0	9
36	Understanding MNPs Behaviour in Response to AMF in Biological Milieus and the Effects at the Cellular Level: Implications for a Rational Design That Drives Magnetic Hyperthermia Therapy toward Clinical Implementation. <i>Cancers</i> , 2021, 13, 4583.	1.7	33
37	Facile synthesis of Mn doped TiO ₂ rhombic nanocomposites for enhanced T1-Magnetic resonance imaging and photodynamic therapy. <i>Materials Research Bulletin</i> , 2021, 144, 111481.	2.7	16

#	ARTICLE	IF	CITATIONS
38	Image-guided Biodistribution and pharmacokinetic studies of theranostics. , 2021, , 293-306.		0
39	Protoporphyrin IX and Manganese Oxide Nanoparticles Encapsulated in Niosomes as Theranostic. ChemistrySelect, 2020, 5, 1987-1993.	0.7	7
40	Tumour microenvironment-responsive nanoplatform based on biodegradable liposome-coated hollow MnO ₂ for synergistically enhanced chemotherapy and photodynamic therapy. Journal of Drug Targeting, 2022, 30, 334-347.	2.1	10
41	Promising Graphene-Based Nanomaterials and Their Biomedical Applications and Potential Risks: A Comprehensive Review. ACS Biomaterials Science and Engineering, 2021, 7, 5363-5396.	2.6	70
42	Development of Molecular Imaging Probe for Dual NIR/MR Imaging. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2020, 33, 117-122.	0.1	7
43	Synergism of the Cytopathic Effect of Synchrotron Radiation and Manganese Oxide Nanoparticles on the Growth of Human Glioblastoma Cells In Vitro. Nanotechnologies in Russia, 2020, 15, 819-827.	0.7	1
44	Nanoparticle Systems for Cancer Phototherapy: An Overview. Nanomaterials, 2021, 11, 3132.	1.9	31
45	Cytocompatible manganese dioxide-based hydrogel nanoreactors for MRI imaging. Materials Science and Engineering C, 2022, 134, 112575.	3.8	8
46	Advances in Imaging Modalities and Contrast Agents for the Early Diagnosis of Colorectal Cancer. Journal of Biomedical Nanotechnology, 2021, 17, 558-581.	0.5	4
47	Manganese-based multifunctional nanoplatform for dual-modal imaging and synergistic therapy of breast cancer. Acta Biomaterialia, 2022, 141, 429-439.	4.1	24
48	¹⁹ F MRI Nanotheranostics for Cancer Management: Progress and Prospects. ChemMedChem, 2022, 17, .	1.6	9
49	Mn doped Prussian blue nanoparticles for T1/T2 MR imaging, PA imaging and Fenton reaction enhanced mild temperature photothermal therapy of tumor. Journal of Nanobiotechnology, 2022, 20, 18.	4.2	20
50	Zwitterion-Coated Ultrasmall MnO Nanoparticles Enable Highly Sensitive T ₁ -Weighted Contrast-Enhanced Brain Imaging. ACS Applied Materials & Interfaces, 2022, 14, 3784-3791.	4.0	10
51	Recent development of magneto-optical nanoplatform for multimodality imaging of Pancreatic Ductal Adenocarcinoma. Nanoscale, 2022, , .	2.8	6
52	Targeted Drug Delivery and Theranostic Strategies in Malignant Lymphomas. Cancers, 2022, 14, 626.	1.7	11
53	Magnetic nanocarriers adorned on graphene: promising contrast-enhancing agents with state-of-the-art performance in magnetic resonance imaging (MRI) and theranostics. Materials Advances, 2022, 3, 2971-2989.	2.6	13
54	Longitudinal manganese-enhanced magnetic resonance imaging of neural projections and activity. NMR in Biomedicine, 2022, 35, e4675.	1.6	8
55	Research Advance in Manganese Nanoparticles in Cancer Diagnosis and Therapy. Frontiers in Materials, 2022, 9, .	1.2	7

#	ARTICLE	IF	CITATIONS
56	Choline chloride â€“ Urea deep eutectic solvent an efficient media for the preparation of metal nanoparticles. <i>Journal of the Indian Chemical Society</i> , 2022, 99, 100446.	1.3	6
57	A Comprehensive Updated Review on Magnetic Nanoparticles in Diagnostics. <i>Nanomaterials</i> , 2021, 11, 3432.	1.9	34
58	Advanced Magnetic Resonance Imaging (MRI) Techniques: Technical Principles and Applications in Nanomedicine. <i>Cancers</i> , 2022, 14, 1626.	1.7	22
59	Biomedical polymers: synthesis, properties, and applications. <i>Science China Chemistry</i> , 2022, 65, 1010-1075.	4.2	85
60	Current Strategies to Enhance Delivery of Drugs across the Bloodâ€“Brain Barrier. <i>Pharmaceutics</i> , 2022, 14, 987.	2.0	44
61	Prevalence of incidental intracranial findings on magnetic resonance imaging: a systematic review and meta-analysis. <i>Acta Neurochirurgica</i> , 2022, 164, 2751-2765.	0.9	9
62	Rapid synthesis of â€“yolk-shellâ€“like nanosystem for MR molecular and chemo-radio sensitization. <i>Journal of Controlled Release</i> , 2022, 347, 55-67.	4.8	8
63	Bioimaging guided pharmaceutical evaluations of nanomedicines for clinical translations. <i>Journal of Nanobiotechnology</i> , 2022, 20, 236.	4.2	9
64	Transferrin-Enabled Bloodâ€“Brain Barrier Crossing Manganese-Based Nanozyme for Rebalancing the Reactive Oxygen Species Level in Ischemic Stroke. <i>Pharmaceutics</i> , 2022, 14, 1122.	2.0	13
65	Tumor microenvironment responsive Mn ₃ O ₄ nanopatform for in vivo real-time monitoring of drug resistance and photothermal/chemodynamic synergistic therapy of gastric cancer. <i>Journal of Nanobiotechnology</i> , 2022, 20, .	4.2	15
66	New Era on Combining Both Imaging and Drug Delivery to Treat Cancer. <i>Current Pharmaceutical Biotechnology</i> , 2023, 24, 832-855.	0.9	2
67	Recent development of contrast agents for magnetic resonance and multimodal imaging of glioblastoma. <i>Journal of Nanobiotechnology</i> , 2022, 20, .	4.2	15
68	Manganese oxide nanoparticles inhibit selectively the in vitro and in vivo growth of human colorectal SW620 adenocarcinoma cells. <i>Advances in Natural Sciences: Nanoscience and Nanotechnology</i> , 2022, 13, 025009.	0.7	0
69	Versatile nanocomposite augments high-intensity focused ultrasound for high-efficacy sonodynamic therapy of glioma. <i>Nano Research</i> , 2022, 15, 9082-9091.	5.8	7
70	Oxide Based Nanoparticles: A review. <i>Oriental Journal of Chemistry</i> , 2022, 38, 654-662.	0.1	0
71	Research Progress of Photothermal Nanomaterials in Multimodal Tumor Therapy. <i>Frontiers in Oncology</i> , 0, 12, .	1.3	6
72	Synthesis of manganese-oxide and palladium nanoparticles co-decorated polypyrrole/graphene oxide (MnO ₂ @Pd@PPy/GO) nanocomposites for anti-cancer treatment. <i>RSC Advances</i> , 2022, 12, 23786-23795.	1.7	8
73	Multimodal magnetic resonance imaging for the diagnosis of parotid gland malignancies: systematic review and meta-analysis. <i>Translational Cancer Research</i> , 2022, 11, 2275-2282.	0.4	1

#	ARTICLE	IF	CITATIONS
74	Multifunctional polyethylene glycol-coated Au@MnO nanoparticles for dual-modal CT/MRI and pH-responsive 5-Fluorouracil delivery. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 0, , 1-9.	1.8	1
75	Recent Advances in Functionalized Nanoparticles in Cancer Theranostics. <i>Nanomaterials</i> , 2022, 12, 2826.	1.9	44
76	Theranostic Applications of an Ultra-Sensitive T1 and T2 Magnetic Resonance Contrast Agent Based on Cobalt Ferrite Spinel Nanoparticles. <i>Cancers</i> , 2022, 14, 4026.	1.7	5
77	MnO ₂ nanoparticle encapsulated in polyelectrolytic hybrids from alkyl functionalized carboxymethyl cellulose and azide functionalized gelatin to treat tumors by photodynamic therapy and photothermal therapy. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2022, 139, 104503.	2.7	4
78	Progress of advanced nanomaterials in diagnosis of neurodegenerative diseases. <i>Biosensors and Bioelectronics</i> , 2022, 217, 114717.	5.3	5
79	Photoactivated Nanohybrid for Dual-Nuclei MR/US/PA Multimodal-Guided Photothermal Therapy. <i>Bioconjugate Chemistry</i> , 2022, 33, 1729-1740.	1.8	4
80	Aerosolised micro and nanoparticle: formulation and delivery method for lung imaging. <i>Clinical and Translational Imaging</i> , 2023, 11, 33-50.	1.1	2
81	Recent Advances in Metal-Organic Frameworks for Applications in Magnetic Resonance Imaging. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 50445-50462.	4.0	16
83	Nanoparticles for MRI-guided radiation therapy: a review. <i>Cancer Nanotechnology</i> , 2022, 13, .	1.9	11
84	Insight into Potential Biomedical Application of Mesoporous Materials. <i>Pharmaceutics</i> , 2022, 14, 2382.	2.0	0
85	A versatile metal-organic nanoplatform in combination with CXCR4 antagonist and PD-L1 inhibitor for multimodal synergistic cancer therapy and MRI-guided tumor imaging. <i>Nano Today</i> , 2022, 47, 101689.	6.2	10
86	Nanoparticles-based phototherapy systems for cancer treatment: Current status and clinical potential. <i>Bioactive Materials</i> , 2023, 23, 471-507.	8.6	16
87	MRI Contrast Agents in Glycobiology. <i>Molecules</i> , 2022, 27, 8297.	1.7	4
88	Integration of Manganese Dioxide-Based Nanomaterials for Biomedical Applications. <i>Advanced NanoBiomed Research</i> , 2023, 3, .	1.7	4
89	Nanocomposites of Nitrogen-Doped Graphene Oxide and Manganese Oxide for Photodynamic Therapy and Magnetic Resonance Imaging. <i>International Journal of Molecular Sciences</i> , 2022, 23, 15087.	1.8	6
91	Design of functional nanoparticles by microfluidic platforms as advanced drug delivery systems for cancer therapy. <i>Lab on A Chip</i> , 2023, 23, 1389-1409.	3.1	23
92	Designing Intelligent Nanomaterials to Achieve Highly Sensitive Diagnoses and Multimodality Therapy of Bladder Cancer. <i>Small Methods</i> , 2023, 7, .	4.6	4
93	Ovalbumin-loaded paramagnetic nano-triangles for enhanced dendritic cell stimulation, T1-MR imaging, and antitumor immunity. <i>Journal of Materials Science and Technology</i> , 2023, 148, 123-137.	5.6	7

#	ARTICLE	IF	CITATIONS
94	Targeting Tumor-Associated Macrophages for Imaging. <i>Pharmaceutics</i> , 2023, 15, 144.	2.0	1
95	The Multifaceted Role of Connexins in Tumor Microenvironment Initiation and Maintenance. <i>Biology</i> , 2023, 12, 204.	1.3	8
96	Membrane reactor for production of biodiesel from nonedible seed oil of <i>Trachyspermum ammi</i> using heterogenous green nanocatalyst of manganese oxide. <i>Chemosphere</i> , 2023, 322, 138078.	4.2	2
97	An overview of biomedical applications of oxide materials. , 2023, , 1-19.		0
98	MRI-visible mesoporous polydopamine nanoparticles with enhanced antioxidant capacity for osteoarthritis therapy. <i>Biomaterials</i> , 2023, 295, 122030.	5.7	14
99	A mesoporous MnO ₂ -based nanoplatform with near infrared light-controlled nitric oxide delivery and tumor microenvironment modulation for enhanced antitumor therapy. <i>Journal of Inorganic Biochemistry</i> , 2023, 241, 112133.	1.5	5
100	Smart Biomimetic Nanozymes for Precise Molecular Imaging: Application and Challenges. <i>Pharmaceutics</i> , 2023, 16, 249.	1.7	3
101	Polymeric Metal Contrast Agents for T ₁ -Weighted Magnetic Resonance Imaging of the Brain. <i>ACS Biomaterials Science and Engineering</i> , 2023, 9, 1224-1242.	2.6	4
102	Phytosynthesized nanomaterials: Applications in biosensors for disease prognosis and diagnosis. , 2023, , 195-215.		0
103	Biogenic metallic nanoparticles as enzyme mimicking agents. <i>Frontiers in Chemistry</i> , 0, 11, .	1.8	1
104	Cytotoxic, Antidiabetic, and Antioxidant Study of Biogenically Improvised <i>Elsholtzia blanda</i> and Chitosan-Assisted Zinc Oxide Nanoparticles. <i>ACS Omega</i> , 2023, 8, 10954-10967.	1.6	5
105	Enzyme-Activatable Polypeptide for Plasma Membrane Disruption and Antitumor Immunity Elicitation. <i>Small</i> , 2023, 19, .	5.2	1
106	Advances in nanoparticles-based approaches in cancer theranostics. <i>OpenNano</i> , 2023, 12, 100152.	1.8	8
107	Hybrid morphologies of paramagnetic manganese-based nanoparticles as theranostics. <i>Chemical Engineering Journal</i> , 2023, 466, 142970.	6.6	5
108	Radio wave/microwave-involved methods for cancer diagnosis. , 2023, , 1-64.		0
113	Research development of porphyrin-based metal-organic frameworks: targeting modalities and cancer therapeutic applications. <i>Journal of Materials Chemistry B</i> , 2023, 11, 6172-6200.	2.9	5
122	Bilirubin and Glycol Chitosan Conjugate Nanoparticle Loaded with Manganese Oxide and Chlorin e6 for Radiodynamic Therapy. , 2023, , .		0
138	Metal Oxide Nanostructure for Biomedical Applications. , 2024, , 43-69.		0

#	ARTICLE	IF	CITATIONS
146	Synthesis and processing methods of magnetic nanosystems for diagnostic tools and devices: Design strategies and physicochemical aspects. , 2024, , 43-78.		0