

MnO_x Nanospikes as Nanoadjuvants and Immunomodulators for
Enhanced Antitumor Immunity and Antimetastatic Effects

Angewandte Chemie - International Edition

59, 16381-16384

DOI: 10.1002/anie.202005111

Citation Report

#	ARTICLE	IF	CITATIONS
1	<i>In situ</i> fabrication of MS@MnO ₂ hybrid as nanozymes for enhancing ROS-mediated breast cancer therapy. <i>Nanoscale</i> , 2020, 12, 22317-22329.	2.8	61
2	<i>In situ</i> tuning proangiogenic factor-mediated immunotolerance synergizes the tumoricidal immunity via a hypoxia-triggerable liposomal bio-nanoreactor. <i>Theranostics</i> , 2020, 10, 11998-12010.	4.6	19
3	Artificial Metalloprotein Nanoanalogues: In Situ Catalytic Production of Oxygen to Enhance Photoimmunotherapeutic Inhibition of Primary and Abscopal Tumor Growth. <i>Small</i> , 2020, 16, e2004345.	5.2	17
4	Covalent Organic Framework-Based Nanocomposite for Synergetic Photo-, Chemodynamic-, and Immunotherapies. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 43456-43465.	4.0	49
5	Na ₂ S ₂ O ₈ Nanoparticles Trigger Antitumor Immunotherapy through Reactive Oxygen Species Storm and Surge of Tumor Osmolarity. <i>Journal of the American Chemical Society</i> , 2020, 142, 21751-21757.	6.6	133
6	Polyphenol-Based Nanomedicine Evokes Immune Activation for Combination Cancer Treatment. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 1967-1975.	7.2	96
8	An ER-Targeting Iridium(III) Complex That Induces Immunogenic Cell Death in Non-Small Cell Lung Cancer. <i>Angewandte Chemie</i> , 2021, 133, 4707-4715.	1.6	28
9	An ER-Targeting Iridium(III) Complex That Induces Immunogenic Cell Death in Non-Small Cell Lung Cancer. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 4657-4665.	7.2	144
10	A microfluidic cathodic photoelectrochemical biosensor chip for the targeted detection of cytokeratin 19 fragments 21-1. <i>Lab on A Chip</i> , 2021, 21, 378-384.	3.1	29
11	Polyphenol-Based Nanomedicine Evokes Immune Activation for Combination Cancer Treatment. <i>Angewandte Chemie</i> , 2021, 133, 1995-2003.	1.6	0
12	Ferroptosis in cancer therapeutics: a materials chemistry perspective. <i>Journal of Materials Chemistry B</i> , 2021, 9, 8906-8936.	2.9	23
13	Biomedicine Meets Fenton Chemistry. <i>Chemical Reviews</i> , 2021, 121, 1981-2019.	23.0	400
14	Diagnostic and therapeutic nanoenzymes for enhanced chemotherapy and photodynamic therapy. <i>Journal of Materials Chemistry B</i> , 2021, 9, 3925-3934.	2.9	19
15	Urchin-Shaped Metal Organic/Hydrogen-Bonded Framework Nanocomposite as a Multifunctional Nanoreactor for Catalysis-Enhanced Synergetic Therapy. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 4825-4834.	4.0	46
16	Manganese oxide nanomaterials boost cancer immunotherapy. <i>Journal of Materials Chemistry B</i> , 2021, 9, 7117-7131.	2.9	27
17	Ultrasound-Augmented Mitochondrial Calcium Ion Overload by Calcium Nanomodulator to Induce Immunogenic Cell Death. <i>Nano Letters</i> , 2021, 21, 2088-2093.	4.5	220
18	Recent Development on Controlled Synthesis of Mn-Based Nanostructures for Bioimaging and Cancer Therapy. <i>Advanced Therapeutics</i> , 2021, 4, 2100018.	1.6	15
19	Stimuli-Responsive Manganese Single-Atom Nanozyme for Tumor Therapy via Integrated Cascade Reactions. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 9480-9488.	7.2	271

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20	Stimuli-Responsive Manganese Single-Atom Nanozyme for Tumor Therapy via Integrated Cascade Reactions. <i>Angewandte Chemie</i> , 2021, 133, 9566-9574.	1.6	50
21	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
22	Singlet Oxygen Generation in Dark-Hypoxia by Catalytic Microenvironment-Tailored Nanoreactors for NIR-Fluorescence-Monitored Chemodynamic Therapy. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 15006-15012.	7.2	64
23	Singlet Oxygen Generation in Dark-Hypoxia by Catalytic Microenvironment-Tailored Nanoreactors for NIR-Fluorescence-Monitored Chemodynamic Therapy. <i>Angewandte Chemie</i> , 2021, 133, 15133-15139.	1.6	13
24	Nanobooster-encapsulated hybrid RNA as anti-tumor viral mimicry. <i>Nano Today</i> , 2021, 38, 101211.	6.2	14
25	Catalytically Active CoFe ₂ O ₄ Nanoflowers for Augmented Sonodynamic and Chemodynamic Combination Therapy with Elicitation of Robust Immune Response. <i>ACS Nano</i> , 2021, 15, 11953-11969.	7.3	114
26	A Tumor-Microenvironment-Responsive Nanocomposite for Hydrogen Sulfide Gas and Trimodal-Enhanced Enzyme Dynamic Therapy. <i>Advanced Materials</i> , 2021, 33, e2101223.	11.1	79
27	Engineering a self-navigated MnARK nanovaccine for inducing potent protective immunity against novel coronavirus. <i>Nano Today</i> , 2021, 38, 101139.	6.2	60
28	Manganese homeostasis at the host-pathogen interface and in the host immune system. <i>Seminars in Cell and Developmental Biology</i> , 2021, 115, 45-53.	2.3	19
29	Smart Manganese Dioxide-Based Lanthanide Nanoprobes for Triple-Negative Breast Cancer Precise Gene Synergistic Chemodynamic Therapy. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 35444-35455.	4.0	34
30	Immunogenic Cell Death Induction by Ionizing Radiation. <i>Frontiers in Immunology</i> , 2021, 12, 705361.	2.2	99
31	Nanotechnology for Boosting Cancer Immunotherapy and Remodeling Tumor Microenvironment: The Horizons in Cancer Treatment. <i>ACS Nano</i> , 2021, 15, 12567-12603.	7.3	112
32	Cyclic Amplification of the Afterglow Luminescent Nanoreporter Enables the Prediction of Anti-Cancer Efficiency. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 19779-19789.	7.2	42
33	Tumor Microenvironment-Activated Nanoparticles Loaded with an Iron-Carbonyl Complex for Chemodynamic Immunotherapy of Lung Metastasis of Melanoma <i>In Vivo</i> . <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 39100-39111.	4.0	24
34	Cyclic Amplification of the Afterglow Luminescent Nanoreporter Enables the Prediction of Anti-Cancer Efficiency. <i>Angewandte Chemie</i> , 2021, 133, 19932-19942.	1.6	6
35	Cancer immunotherapy: Classification, therapeutic mechanisms, and nanomaterial-based synergistic therapy. <i>Applied Materials Today</i> , 2021, 24, 101149.	2.3	7
36	pH-Sensitive Polymeric Vesicles for GOx/BSO Delivery and Synergetic Starvation-Ferroptosis Therapy of Tumor. <i>Biomacromolecules</i> , 2021, 22, 4383-4394.	2.6	24
37	Ferroptosis and Cancer: Complex Relationship and Potential Application of Exosomes. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 733751.	1.8	32

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38	Soft X-ray Stimulated Lanthanide@MOF Nanoprobe for Amplifying Deep Tissue Synergistic Photodynamic and Antitumor Immunotherapy. <i>Advanced Healthcare Materials</i> , 2021, 10, e2101174.	3.9	17
39	Biocompatible Ruthenium Single-Atom Catalyst for Cascade Enzyme-Mimicking Therapy. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 45269-45278.	4.0	41
40	Biodegradable Upconversion Nanoparticles Induce Pyroptosis for Cancer Immunotherapy. <i>Nano Letters</i> , 2021, 21, 8281-8289.	4.5	100
41	Multifunctional carbon monoxide nanogenerator as immunogenic cell death drugs with enhanced antitumor immunity and antimetastatic effect. <i>Biomaterials</i> , 2021, 277, 121120.	5.7	41
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43	Glutathione-mediated nanomedicines for cancer diagnosis and therapy. <i>Chemical Engineering Journal</i> , 2021, 426, 128880.	6.6	57
44	Synergistic enhancement of immunological responses triggered by hyperthermia sensitive Pt NPs via NIR laser to inhibit cancer relapse and metastasis. <i>Bioactive Materials</i> , 2022, 7, 389-400.	8.6	33
45	Correction: Combining PD-L1 inhibitors with immunogenic cell death triggered by chemo-photothermal therapy via a thermosensitive liposome system to stimulate tumor-specific immunological response. <i>Nanoscale</i> , 2021, 13, 13907-13907.	2.8	8
46	Tumor microenvironment-triggered <i>in situ</i> cancer vaccines inducing dual immunogenic cell death for elevated antitumor and antimetastatic therapy. <i>Nanoscale</i> , 2021, 13, 10906-10915.	2.8	15
47	Combining PD-L1 inhibitors with immunogenic cell death triggered by chemo-photothermal therapy <i>via</i> a thermosensitive liposome system to stimulate tumor-specific immunological response. <i>Nanoscale</i> , 2021, 13, 12966-12978.	2.8	32
48	Hollow polydopamine spheres with removable manganese oxide nanoparticle caps for tumor microenvironment-responsive drug delivery. <i>Chemical Engineering Journal</i> , 2022, 430, 133089.	6.6	16
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51	Fenton metal nanomedicines for imaging-guided combinatorial chemodynamic therapy against cancer. <i>Asian Journal of Pharmaceutical Sciences</i> , 2022, 17, 177-192.	4.3	21
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53	Calcium ion nanomodulators for mitochondria-targeted multimodal cancer therapy. <i>Asian Journal of Pharmaceutical Sciences</i> , 2022, 17, 1-3.	4.3	55
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55	The concept and examples of type-III photosensitizers for cancer photodynamic therapy. <i>CheM</i> , 2022, 8, 197-209.	5.8	78

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56	One-Pot Synthesis of Multifunctional Carbon-Based Nanoparticle-Supported Dispersed Cu ²⁺ Disrupts Redox Homeostasis to Enhance CDT. <i>Angewandte Chemie</i> , 2022, 134, e202114373.	1.6	2
57	Anti-PD-L1 DNzyme Loaded Photothermal Mn ²⁺ /Fe ³⁺ Hybrid Metal-Phenolic Networks for Cyclically Amplified Tumor Ferroptosis-Immunotherapy. <i>Advanced Healthcare Materials</i> , 2022, 11, e2102315.	3.9	25
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59	Immunotherapy for Tumor Metastasis by Artificial Antigen-Presenting Cells via Targeted Microenvironment Regulation and T-Cell Activation. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 55890-55901.	4.0	16
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61	One-Pot Synthesis of Multifunctional Carbon-Based Nanoparticle-Supported Dispersed Cu ²⁺ Disrupts Redox Homeostasis to Enhance CDT. <i>Angewandte Chemie - International Edition</i> , 2022, 61, e202114373.	7.2	37
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63	A self-amplifying nanodrug to manipulate the Janus-faced nature of ferroptosis for tumor therapy. <i>Nanoscale Horizons</i> , 2022, 7, 198-210.	4.1	100
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65	Metal-based nano-vaccines for cancer immunotherapy. <i>Coordination Chemistry Reviews</i> , 2022, 455, 214345.	9.5	27
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70	Ion drugs for precise orthotopic tumor management by <i>in situ</i> the generation of toxic ion and drug pools. <i>Theranostics</i> , 2022, 12, 734-746.	4.6	6
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72	Understanding Structure-Function Relationships of Nanoadjuvants for Enhanced Cancer Vaccine Efficacy. <i>Advanced Functional Materials</i> , 2022, 32, 2111670.	7.8	24
73	Glutamine Antagonist Synergizes with Electrodynamic Therapy to Induce Tumor Regression and Systemic Antitumor Immunity. <i>ACS Nano</i> , 2022, 16, 951-962.	7.3	39

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75	Fe_2O_3 Loading Mitoxantrone and Glucose Oxidase for pH-Responsive Chemo/Chemodynamic/Photothermal Synergistic Cancer Therapy. <i>Advanced Healthcare Materials</i> , 2022, 11, e2102632.	3.9	27
76	Manganese oxide nanomaterials for bacterial infection detection and therapy. <i>Journal of Materials Chemistry B</i> , 2022, 10, 1343-1358.	2.9	24
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79	Biodegradable reduce expenditure bioreactor for augmented sonodynamic therapy via regulating tumor hypoxia and inducing pro-death autophagy. <i>Journal of Nanobiotechnology</i> , 2021, 19, 418.	4.2	20
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92	A Hybrid Supramolecular Polymeric Nanomedicine for Cascade-Enhanced Amplified Synergetic Cancer Therapy. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	6
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101	Combining immune checkpoint blockade with ATP-based immunogenic cell death amplifier for cancer chemo-immunotherapy. <i>Acta Pharmaceutica Sinica B</i> , 2022, 12, 3694-3709.	5.7	13
102	Dual-Mode Immunosensor for Electrochemiluminescence Resonance Energy Transfer and Electrochemical Detection of Rabies Virus Glycoprotein Based on Ru(bpy) ₃ ²⁺ -Loaded Dendritic Mesoporous Silica Nanoparticles. <i>Analytical Chemistry</i> , 2022, 94, 7655-7664.	3.2	32
103	Recent applications of immunomodulatory biomaterials for disease immunotherapy. <i>Exploration</i> , 2022, 2, .	5.4	81
104	Salicylic acid-based hypoxia-responsive chemodynamic nanomedicines boost antitumor immunotherapy by modulating immunosuppressive tumor microenvironment. <i>Acta Biomaterialia</i> , 2022, 148, 230-243.	4.1	18
105	In situ-transition nanozyme triggered by tumor microenvironment boosts synergistic cancer radio-/chemotherapy through disrupting redox homeostasis. <i>Biomaterials</i> , 2022, 287, 121620.	5.7	32
106	Modulation of the Tumor Immune Microenvironment by Bi ₂ Te ₃ -Au/Pd-Based Theranostic Nanocatalysts Enables Efficient Cancer Therapy. <i>Advanced Healthcare Materials</i> , 2022, 11, .	3.9	12
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111	Metal-fluorouracil networks with disruption of mitochondrion enhanced ferroptosis for synergistic immune activation. <i>Theranostics</i> , 2022, 12, 6207-6222.	4.6	23
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129	Overcoming Hypoxia-Induced Ferroptosis Resistance via a ¹⁹ F/ ¹ H-MRI Traceable Core-Shell Nanostructure. Angewandte Chemie - International Edition, 2022, 61, .	7.2	42
130	H ₂ O ₂ /pH Dual-Responsive Biomimetic Nanoenzyme Drugs Delivery System for Enhanced Tumor Photodynamic Therapy. Nanoscale Research Letters, 2022, 17, .	3.1	8
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132	Overcoming Hypoxia-Induced Ferroptosis Resistance via a ¹⁹ F/ ¹ H-MRI Traceable Core-Shell Nanostructure. Angewandte Chemie, 0, .	1.6	6
133	2D Catalytic, Chemodynamic, and Ferroptotic Vermiculite Nanomedicine. Advanced Functional Materials, 2022, 32, .	7.8	14
134	An Overview of Recent Advancements on Manganese-Based Nanostructures and Their Application for ROS-Mediated Tumor Therapy. , 2022, 4, 2415-2433.		2
135	Facile One-Pot Synthesis of Meteor Hammer-like Au-MnO _x Nanozymes with Spiky Surface for NIR-II Light-Enhanced Bacterial Elimination. Chemistry of Materials, 2022, 34, 9876-9891.	3.2	18
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