

Xianwei Meng

List of Publications by Year in descending order

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110
papers

5,163
citations

76326

40
h-index

98798

67
g-index

112
all docs

112
docs citations

112
times ranked

6939
citing authors

#	ARTICLE	IF	CITATIONS
1	Plasmonic Copper Sulfide Nanocrystals Exhibiting Near-Infrared Photothermal and Photodynamic Therapeutic Effects. <i>ACS Nano</i> , 2015, 9, 1788-1800.	14.6	536
2	Biocompatible and biodegradable zeolitic imidazolate framework/polydopamine nanocarriers for dual stimulus triggered tumor thermo-chemotherapy. <i>Biomaterials</i> , 2018, 162, 132-143.	11.4	218
3	Biodistribution, excretion, and toxicity of mesoporous silica nanoparticles after oral administration depend on their shape. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2015, 11, 1915-1924.	3.3	203
4	A simple and sensitive fluorescence biosensor for detection of organophosphorus pesticides using H ₂ O ₂ -sensitive quantum dots/bi-enzyme. <i>Biosensors and Bioelectronics</i> , 2013, 47, 402-407.	10.1	176
5	Microwave-Activated Mn-Doped Zirconium Metal-Organic Framework Nanocubes for Highly Effective Combination of Microwave Dynamic and Thermal Therapies Against Cancer. <i>ACS Nano</i> , 2018, 12, 2201-2210.	14.6	176
6	Multifunctional iron-based Metal-Organic framework as biodegradable nanozyme for microwave enhancing dynamic therapy. <i>Biomaterials</i> , 2019, 214, 119223.	11.4	125
7	One-pot synthesis of active copper-containing carbon dots with laccase-like activities. <i>Nanoscale</i> , 2015, 7, 19641-19646.	5.6	123
8	Multifunctional Carbon-Silica Nanocapsules with Gold Core for Synergistic Photothermal and Chemo-Cancer Therapy under the Guidance of Bimodal Imaging. <i>Advanced Functional Materials</i> , 2016, 26, 4252-4261.	14.9	113
9	CsPbX ₃ /Cs ₄ PbX ₆ core/shell perovskite nanocrystals. <i>Chemical Communications</i> , 2018, 54, 6300-6303.	4.1	109
10	Nanoscale Metal-Organic Frameworks: Synthesis, Biocompatibility, Imaging Applications, and Thermal and Dynamic Therapy of Tumors. <i>Advanced Functional Materials</i> , 2020, 30, 1908924.	14.9	108
11	Dual-Functional Supernanoparticles with Microwave Dynamic Therapy and Microwave Thermal Therapy. <i>Nano Letters</i> , 2019, 19, 5277-5286.	9.1	107
12	Layered MoS ₂ Hollow Spheres for Highly Efficient Photothermal Therapy of Rabbit Liver Orthotopic Transplantation Tumors. <i>Small</i> , 2016, 12, 2046-2055.	10.0	101
13	Multisnergistic Platform for Tumor Therapy by Mild Microwave Irradiation-Activated Chemotherapy and Enhanced Ablation. <i>ACS Nano</i> , 2016, 10, 9516-9528.	14.6	97
14	Oxygen Production of Modified Core-Shell CuO@ZrO ₂ Nanocomposites by Microwave Radiation to Alleviate Cancer Hypoxia for Enhanced Chemo-Microwave Thermal Therapy. <i>ACS Nano</i> , 2018, 12, 12721-12732.	14.6	92
15	Sensitive and selective detection of Hg ²⁺ and Cu ²⁺ ions by fluorescent Ag nanoclusters synthesized via a hydrothermal method. <i>Nanoscale</i> , 2013, 5, 10022.	5.6	90
16	Effects of graphene oxide on the development of offspring mice in lactation period. <i>Biomaterials</i> , 2015, 40, 23-31.	11.4	90
17	Quercetin-Modified Metal-Organic Frameworks for Dual Sensitization of Radiotherapy in Tumor Tissues by Inhibiting the Carbonic Anhydrase IX. <i>ACS Nano</i> , 2019, 13, 4209-4219.	14.6	85
18	High Biocompatible ZIF-8 Coated by ZrO ₂ for Chemo-microwave Thermal Tumor Synergistic Therapy. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 10520-10531.	8.0	83

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19	A smart all-in-one theranostic platform for CT imaging guided tumor microwave thermotherapy based on IL@ZrO ₂ nanoparticles. <i>Chemical Science</i> , 2015, 6, 5016-5026.	7.4	75
20	Insights into a microwave susceptible agent for minimally invasive microwave tumor thermal therapy. <i>Biomaterials</i> , 2015, 44, 91-102.	11.4	74
21	Facile synthesis of hierarchical MoS ₂ @carbon microspheres as a robust anode for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 9653-9660.	10.3	73
22	Biocompatible Hollow Polydopamine Nanoparticles Loaded Ionic Liquid Enhanced Tumor Microwave Thermal Ablation in Vivo. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 11237-11245.	8.0	71
23	Ultrasensitive fluorescence immunoassay for detection of ochratoxin A using catalase-mediated fluorescence quenching of CdTe QDs. <i>Nanoscale</i> , 2016, 8, 9390-9397.	5.6	66
24	Microwave Responsive Nanoplatform via P-Selectin Mediated Drug Delivery for Treatment of Hepatocellular Carcinoma with Distant Metastasis. <i>Nano Letters</i> , 2019, 19, 2914-2927.	9.1	66
25	Multifunctional and flexible ZrO ₂ -coated EGaIn nanoparticles for photothermal therapy. <i>Nanoscale</i> , 2019, 11, 10183-10189.	5.6	61
26	Co-Administration of iRGD with Sorafenib-Loaded Iron-Based Metal-Organic Framework as a Targeted Ferroptosis Agent for Liver Cancer Therapy. <i>International Journal of Nanomedicine</i> , 2021, Volume 16, 1037-1050.	6.7	61
27	Electrospun quantum dots/polymer composite porous fibers for turn-on fluorescent detection of lactate dehydrogenase. <i>Journal of Materials Chemistry</i> , 2012, 22, 18471.	6.7	59
28	Layered MoS ₂ nanoflowers for microwave thermal therapy. <i>Journal of Materials Chemistry B</i> , 2016, 4, 2133-2141.	5.8	55
29	Advanced nanotechnology for hypoxia-associated antitumor therapy. <i>Nanoscale</i> , 2020, 12, 2855-2874.	5.6	54
30	Mitochondria-targeted zirconium metal-organic frameworks for enhancing the efficacy of microwave thermal therapy against tumors. <i>Biomaterials Science</i> , 2018, 6, 1535-1545.	5.4	52
31	Fluorescence turn-off detection of hydrogen peroxide and glucose directly using carbon nanodots as probes. <i>Analytical Methods</i> , 2014, 6, 1922.	2.7	51
32	Confining alloy or core-shell Au-Pd bimetallic nanocrystals in silica nanorattles for enhanced catalytic performance. <i>Journal of Materials Chemistry A</i> , 2013, 1, 10382.	10.3	45
33	Fluorescence switching method for cascade detection of salicylaldehyde and zinc(II) ion using protein protected gold nanoclusters. <i>Biosensors and Bioelectronics</i> , 2015, 74, 322-328.	10.1	44
34	Nanoengineering of nanorattles for tumor treatment by CT imaging-guided simultaneous enhanced microwave thermal therapy and managing inflammation. <i>Biomaterials</i> , 2018, 179, 122-133.	11.4	43
35	A tumor treatment strategy based on biodegradable BSA@ZIF-8 for simultaneously ablating tumors and inhibiting infection. <i>Nanoscale Horizons</i> , 2018, 3, 606-615.	8.0	43
36	MOF-derived nano-popcorns synthesized by sonochemistry as efficient sensitizers for tumor microwave thermal therapy. <i>Biomaterials</i> , 2020, 234, 119773.	11.4	43

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37	Renal-clearable quaternary chalcogenide nanocrystal for photoacoustic/magnetic resonance imaging guided tumor photothermal therapy. <i>Biomaterials</i> , 2018, 159, 108-118.	11.4	42
38	MOF@COF nanocapsule for the enhanced microwave thermal-dynamic therapy and anti-angiogenesis of colorectal cancer. <i>Biomaterials</i> , 2022, 283, 121472.	11.4	42
39	Encapsulating Ionic Liquid and Fe ₃ O ₄ Nanoparticles in Gelatin Microcapsules as Microwave Susceptible Agent for MR Imaging-guided Tumor Thermotherapy. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 13612-13619.	8.0	41
40	Gelatin microcapsules for enhanced microwave tumor hyperthermia. <i>Nanoscale</i> , 2015, 7, 3147-3154.	5.6	41
41	Doxorubicin-loaded ionic liquid-polydopamine nanoparticles for combined chemotherapy and microwave thermal therapy of cancer. <i>RSC Advances</i> , 2016, 6, 32434-32440.	3.6	41
42	Interlayer expansion of 2D MoS ₂ nanosheets for highly improved photothermal therapy of tumors <i>in vitro</i> and <i>in vivo</i> . <i>Chemical Communications</i> , 2018, 54, 13989-13992.	4.1	41
43	DOX-Conjugated keratin nanoparticles for pH-Sensitive drug delivery. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 181, 1012-1018.	5.0	38
44	A sensitive biosensor for the fluorescence detection of the acetylcholinesterase reaction system based on carbon dots. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015, 125, 90-95.	5.0	37
45	Mitochondria-targeting nanoparticles for enhanced microwave ablation of cancer. <i>Nanoscale</i> , 2018, 10, 15677-15685.	5.6	37
46	Monodisperse Hollow Tricolor Pigment Particles for Electronic Paper. <i>Nanoscale Research Letters</i> , 2010, 5, 174-179.	5.7	35
47	Icosahedral gold-platinum alloy nanocrystals in hollow silica: a highly active and stable catalyst for Ullmann reactions. <i>Chemical Communications</i> , 2014, 50, 539-541.	4.1	35
48	11-Mercaptoundecanoic acid functionalized gold nanoclusters as fluorescent probes for the sensitive detection of Cu ²⁺ and Fe ³⁺ ions. <i>Chinese Chemical Letters</i> , 2017, 28, 1901-1904.	9.0	35
49	Ball-in-ball ZrO ₂ nanostructure for simultaneous CT imaging and highly efficient synergic microwave ablation and tri-stimuli-responsive chemotherapy of tumors. <i>Nanoscale</i> , 2017, 9, 8834-8847.	5.6	33
50	Hollow ZrO ₂ /PPy nanoplatform for improved drug delivery and real-time CT monitoring in synergistic photothermal-chemo cancer therapy. <i>Journal of Materials Chemistry B</i> , 2016, 4, 859-866.	5.8	32
51	MoS ₂ nanosheets encapsulated in sodium alginate microcapsules as microwave embolization agents for large orthotopic transplantation tumor therapy. <i>Nanoscale</i> , 2017, 9, 14846-14853.	5.6	32
52	Tumor reoxygenation for enhanced combination of radiation therapy and microwave thermal therapy using oxygen generation <i>in situ</i> by CuO nanosuperparticles under microwave irradiation. <i>Theranostics</i> , 2020, 10, 4659-4675.	10.0	32
53	Imaging-guided synergetic therapy of orthotopic transplantation tumor by superselectively arterial administration of microwave-induced microcapsules. <i>Biomaterials</i> , 2017, 133, 144-153.	11.4	30
54	<p><img alt="Toxicity, biodistribution and oxidative damage caused by zirconia nanoparticles after intravenous injection. </p></p><img alt="International Journal of Nanomedicine, 2019, Volume 14, 5175-5186..</p></p>	6.7	30

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55	Emerging biocompatible nanoplatforms for the potential application in diagnosis and therapy of deep tumors. <i>View</i> , 2022, 3, 20200174.	5.3	30
56	Uniform double-shelled silica hollow spheres: acid/base selective-etching synthesis and their drug delivery application. <i>RSC Advances</i> , 2013, 3, 5649.	3.6	28
57	Therapeutic efficacy of novel microwave-sensitized mPEG-PLGA@ZrO ₂ @(DOX + ILS) drug-loaded microspheres in rabbit VX ₂ liver tumours. <i>Nanoscale</i> , 2017, 9, 3429-3439.	5.6	28
58	One-pot gradient solvothermal synthesis of Au@Fe ₃ O ₄ hybrid nanoparticles for magnetically recyclable catalytic applications. <i>Journal of Materials Chemistry A</i> , 2013, 1, 10513.	10.3	27
59	Toxicity and bio-distribution of carbon dots after single inhalation exposure in vivo. <i>Chinese Chemical Letters</i> , 2018, 29, 895-898.	9.0	26
60	Superoxide dismutase mimetic ability of Mn-doped ZnS QDs. <i>Chinese Chemical Letters</i> , 2018, 29, 1865-1868.	9.0	25
61	Delivery of Arsenic Trioxide by Multifunction Nanoparticles To Improve the Treatment of Hepatocellular Carcinoma. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 8016-8029.	8.0	25
62	Highly stable microwave susceptible agents via encapsulation of Ti-mineral superfine powders in urea-formaldehyde resin microcapsules for tumor hyperthermia therapy. <i>Nanoscale</i> , 2016, 8, 11044-11051.	5.6	24
63	MnMOF-based microwave-glutathione dual-responsive nano-missile for enhanced microwave Thermo-dynamic chemotherapy of drug-resistant tumors. <i>Chemical Engineering Journal</i> , 2022, 439, 135582.	12.7	24
64	Graphitic carbon nitride nanosheets with tunable optical properties and their superoxide dismutase mimetic ability. <i>RSC Advances</i> , 2016, 6, 92839-92844.	3.6	23
65	Dendritic silica with carbon dots and gold nanoclusters for dual nanozymes. <i>New Journal of Chemistry</i> , 2020, 44, 1988-1992.	2.8	23
66	Rapid and simultaneous detection of heart-type fatty acid binding protein and cardiac troponin using a lateral flow assay based on metal organic framework@CdTe nanoparticles. <i>Nanoscale</i> , 2021, 13, 7844-7850.	5.6	23
67	Synthesis and Application of Carbon@Iron Oxide Microspheres™ Black Pigments in Electrophoretic Displays. <i>Nanoscale Research Letters</i> , 2010, 5, 1664-1668.	5.7	21
68	Pigment-based tricolor ink particles via mini-emulsion polymerization for chromatic electrophoretic displays. <i>Journal of Materials Chemistry</i> , 2010, 20, 8112.	6.7	21
69	Synthesis of Black Magnetic Electrophoretic Particles for Magnetic-Electric Dual-Driven Electronic Paper. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 622-629.	8.0	21
70	Luminescent Electrophoretic Particles via Miniemulsion Polymerization for Night-Vision Electrophoretic Displays. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 3638-3642.	8.0	21
71	Chemical Synthesis and Applications of Colloidal Metal Phosphide Nanocrystals. <i>Frontiers in Chemistry</i> , 2018, 6, 652.	3.6	21
72	Metal-Organic Frameworks-Based Fluorescent Nanocomposites for Bioimaging in Living Cells and <i>in vivo</i> . <i>Chinese Journal of Chemistry</i> , 2021, 39, 473-487.	4.9	21

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73	Photothermal photodynamic therapy and enhanced radiotherapy of targeting copolymer-coated liquid metal nanoparticles on liver cancer. <i>Colloids and Surfaces B: Biointerfaces</i> , 2021, 207, 112023.	5.0	21
74	Continuous "Snowing" Thermotherapeutic Graphene. <i>Advanced Materials</i> , 2020, 32, e2002024.	21.0	20
75	Nanoengineered biomimetic Cu-based nanoparticles for multifunctional and efficient tumor treatment. <i>Biomaterials</i> , 2021, 276, 121016.	11.4	20
76	Enhanced Photothermal-Photodynamic Therapy by Indocyanine Green and Curcumin-Loaded Layered MoS ₂ Hollow Spheres via Inhibition of P-Glycoprotein. <i>International Journal of Nanomedicine</i> , 2021, Volume 16, 433-442.	6.7	20
77	High-Density Magnetite Nanoparticles Located in Carbon Hollow Microspheres with Good Dispersibility and Durability: Their One-Pot Preparation and Magnetic Properties. <i>European Journal of Inorganic Chemistry</i> , 2009, 2009, 3003-3007.	2.0	18
78	Facile synthesis of a highly luminescent carbon dot@silica nanorattle for in vivo bioimaging. <i>RSC Advances</i> , 2015, 5, 46158-46162.	3.6	18
79	Micro-Nanomaterials for Tumor Microwave Hyperthermia: Design, Preparation, and Application. <i>Current Drug Delivery</i> , 2017, 14, 307-322.	1.6	18
80	Lanthanide europium MOF nanocomposite as the theranostic nanoplatform for microwave thermo-chemotherapy and fluorescence imaging. <i>Journal of Nanobiotechnology</i> , 2022, 20, 133.	9.1	18
81	In Vivo Magnetic Resonance Imaging and Microwave Thermotherapy of Cancer Using Novel Chitosan Microcapsules. <i>Nanoscale Research Letters</i> , 2016, 11, 334.	5.7	17
82	Cysteine decorated nanoscale metal-organic frameworks delivering valproic acid/cisplatin for drug-resistant lung cancer therapy. <i>Chemical Communications</i> , 2020, 56, 3919-3922.	4.1	17
83	Zirconium metal-organic framework nanocrystal as microwave sensitizer for enhancement of tumor therapy. <i>Chinese Chemical Letters</i> , 2019, 30, 481-484.	9.0	16
84	Luminescent silver nanoclusters for efficient detection of adenosine triphosphate in a wide range of pH values. <i>Chinese Chemical Letters</i> , 2020, 31, 3117-3120.	9.0	16
85	Fast synthesis of fluorescent SiO ₂ @CdTe nanoparticles with reusability in detection of H ₂ O ₂ . <i>Journal of Materials Chemistry B</i> , 2015, 3, 6385-6390.	5.8	15
86	Observation and implication of halide exchange beyond CsPbX ₃ perovskite nanocrystals. <i>Nanoscale</i> , 2019, 11, 3123-3128.	5.6	15
87	Nanozymes-engineered metal-organic frameworks for enhanced microwave thermodynamic therapy in PDX of hepatic carcinoma. <i>Chemical Engineering Journal</i> , 2022, 450, 138092.	12.7	15
88	Preparation and characterization of Keratin-PEG conjugate-based micelles as a tumor microenvironment-responsive drug delivery system. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2020, 31, 1163-1178.	3.5	14
89	Keratin-Poly(2-methacryloxyethyl phosphatidylcholine) Conjugate-Based Micelles as a Tumor Micro-Environment-Responsive Drug-Delivery System with Long Blood Circulation. <i>Langmuir</i> , 2020, 36, 3540-3549.	3.5	12
90	Chemical chaperone delivered nanoscale metal-organic frameworks as inhibitor of endoplasmic reticulum for enhanced sensitization of thermo-chemo therapy. <i>Chinese Chemical Letters</i> , 2022, 33, 1604-1608.	9.0	12

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91	A core-shell liquid metal-Cu nanoparticle with glutathione consumption via in situ replacement strategy for tumor combination treatment of chemodynamic, microwave dynamic and microwave thermal therapy. <i>Biomaterials Science</i> , 2022, 10, 3503-3513.	5.4	12
92	Size Effect of Mesoporous and Hollow Silica Nanoparticles on Solid Tumor Targeting and Penetration. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 6766-6772.	0.9	10
93	A Dual-Emission Nanohybrid of Gold Nanoclusters and Carbon Dots for Ratiometric Fluorescence Detection of Reactive Oxygen Species and Glucose. <i>Journal of Biomedical Nanotechnology</i> , 2017, 13, 1425-1434.	1.1	10
94	Nanoscale metal organic frameworks inhibition of pyruvate kinase of M2. <i>Chinese Chemical Letters</i> , 2021, 32, 3087-3089.	9.0	9
95	One-pot gradient solvothermal synthesis of the Ag/Au-Fe ₃ O ₄ composite nanoparticles and their applications. <i>RSC Advances</i> , 2014, 4, 56057-56062.	3.6	8
96	Synthesis of MoS ₂ nanoflowers on CdS nanorods with a simple route and their application in removal of dyes. <i>Journal of Nanoparticle Research</i> , 2022, 24, 1.	1.9	7
97	Regulating glucose metabolism using nanomedicines for cancer therapy. <i>Journal of Materials Chemistry B</i> , 2021, 9, 5749-5764.	5.8	6
98	Fluorescent hollow ZrO ₂ @CdTe nanoparticles-based lateral flow assay for simultaneous detection of C-reactive protein and troponin T. <i>Mikrochimica Acta</i> , 2021, 188, 209.	5.0	6
99	Dispersion and stability of nanoparticles in electrophoretic displays. <i>Journal of Materials Science: Materials in Electronics</i> , 2013, 24, 382-391.	2.2	5
100	Porous PLGA microspheres with recruited ions and doxorubicin for triple-combination therapy of larger hepatocellular carcinoma. <i>Journal of Materials Chemistry B</i> , 2017, 5, 9025-9032.	5.8	5
101	Laser-Induced Antibacterial Activity of Novel Symmetric Carbazole-Based Ethynylpyridine Photosensitizers. <i>ACS Omega</i> , 2018, 3, 3737-3743.	3.5	5
102	Transarterial Infusion of iRGD-Modified ZrO ₂ Nanoparticles with Lipiodol Improves the Tissue Distribution of Doxorubicin and Its Antitumor Efficacy. <i>Journal of Vascular and Interventional Radiology</i> , 2019, 30, 2026-2035.e2.	0.5	5
103	An Overview on the Pharmacokinetics of Quantum Dots. <i>Current Drug Metabolism</i> , 2013, 14, 820-831.	1.2	5
104	Cancer Therapy: Multifunctional Carbon-Silica Nanocapsules with Gold Core for Synergistic Photothermal and Chemo-Cancer Therapy under the Guidance of Bimodal Imaging (<i>Adv. Funct. Mater.</i>)	0.9	4
105	Preparation and properties of covalent organic framework nanoparticles with high drug loading. <i>Frontiers of Materials Science</i> , 2021, 15, 465-470.	2.2	3
106	Evaluation of Apigenin Inhibiting Lactate Dehydrogenase Activity Based on CdTe Quantum Dots Fluorescence. <i>Journal of Biomedical Nanotechnology</i> , 2021, 17, 1806-1811.	1.1	1
107	Preparation and enhanced properties of ZrMOF@CdTe nanoparticles with high-density quantum dots. <i>Frontiers of Materials Science</i> , 2020, 14, 155-162.	2.2	1
108	Carbon dots with tunable emission based on pH values. <i>Materials Express</i> , 2022, 12, 271-277.	0.5	1

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109	A multifunctional nanoplatform for improving microwave hyperthermia by a combination therapy of vessel disruptive agent and immune modulator. <i>Colloids and Surfaces B: Biointerfaces</i> , 2022, 217, 112616.	5.0	1
110	High Biocompatible Poly(lactic-co-glycolic acid)-Based Nanosensitizer With Magnetic Resonance Imaging Capacity for Tumor Targeted Microwave Hyperthermia and Chemotherapy. <i>Journal of Biomedical Nanotechnology</i> , 2022, 18, 369-380.	1.1	0