

# Wei-Hai Chen

## List of Publications by Year in descending order

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55  
papers

5,449  
citations

81900

39  
h-index

155660

55  
g-index

55  
all docs

55  
docs citations

55  
times ranked

7471  
citing authors

#	ARTICLE	IF	CITATIONS
1	Biocatalytic cascades driven by enzymes encapsulated in metal-organic framework nanoparticles. <i>Nature Catalysis</i> , 2018, 1, 689-695.	34.4	494
2	Multifunctional Envelope-Type Mesoporous Silica Nanoparticles for Tumor-Triggered Targeting Drug Delivery. <i>Journal of the American Chemical Society</i> , 2013, 135, 5068-5073.	13.7	480
3	Overcoming the Heat Endurance of Tumor Cells by Interfering with the Anaerobic Glycolysis Metabolism for Improved Photothermal Therapy. <i>ACS Nano</i> , 2017, 11, 1419-1431.	14.6	284
4	A multifunctional metal-organic framework based tumor targeting drug delivery system for cancer therapy. <i>Nanoscale</i> , 2015, 7, 16061-16070.	5.6	250
5	Recent Advances in Subcellular Targeted Cancer Therapy Based on Functional Materials. <i>Advanced Materials</i> , 2019, 31, e1802725.	21.0	230
6	Glucose-Responsive Metal-Organic-Framework Nanoparticles Act as "Smart-Sense-and-Treat Carriers. <i>ACS Nano</i> , 2018, 12, 7538-7545.	14.6	203
7	Stimuli-Responsive Nucleic Acid-Based Polyacrylamide Hydrogel-Coated Metal-Organic Framework Nanoparticles for Controlled Drug Release. <i>Advanced Functional Materials</i> , 2018, 28, 1705137.	14.9	201
8	Mesoporous silica-based versatile theranostic nanoplatform constructed by layer-by-layer assembly for excellent photodynamic/chemo therapy. <i>Biomaterials</i> , 2017, 117, 54-65.	11.4	179
9	Stimuli-responsive nucleic acid-functionalized metal-organic framework nanoparticles using pH- and metal-ion-dependent DNAzymes as locks. <i>Chemical Science</i> , 2017, 8, 5769-5780.	7.4	176
10	An O <sub>2</sub> Self-Supplementing and Reactive Oxygen Species-Circulating Amplified Nanoplatform via H <sub>2</sub> O/H <sub>2</sub> O <sub>2</sub> Splitting for Tumor Imaging and Photodynamic Therapy. <i>Advanced Functional Materials</i> , 2017, 27, 1700626.	14.9	171
11	ATP-Responsive Aptamer-Based Metal-Organic Framework Nanoparticles (NMOFs) for the Controlled Release of Loads and Drugs. <i>Advanced Functional Materials</i> , 2017, 27, 1702102.	14.9	169
12	A Triple-Collaborative Strategy for High-Performance Tumor Therapy by Multifunctional Mesoporous Silica-Coated Gold Nanorods. <i>Advanced Functional Materials</i> , 2016, 26, 4339-4350.	14.9	150
13	Multifunctional Enveloped Mesoporous Silica Nanoparticles for Subcellular Co-delivery of Drug and Therapeutic Peptide. <i>Scientific Reports</i> , 2014, 4, 6064.	3.3	145
14	Cu <sup>2+</sup> -Modified Metal-Organic Framework Nanoparticles: A Peroxidase-Mimicking Nanoenzyme. <i>Small</i> , 2018, 14, 1703149.	10.0	131
15	Rational design of multifunctional magnetic mesoporous silica nanoparticle for tumor-targeted magnetic resonance imaging and precise therapy. <i>Biomaterials</i> , 2016, 76, 87-101.	11.4	122
16	Therapeutic nanomedicine based on dual-intelligent functionalized gold nanoparticles for cancer imaging and therapy in vivo. <i>Biomaterials</i> , 2013, 34, 8798-8807.	11.4	118
17	Recent Advances in Engineered Materials for Immunotherapy-Involved Combination Cancer Therapy. <i>Advanced Materials</i> , 2021, 33, e2007630.	21.0	112
18	Cell primitive-based biomimetic functional materials for enhanced cancer therapy. <i>Chemical Society Reviews</i> , 2021, 50, 945-985.	38.1	108

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19	Synergistic gene and drug tumor therapy using a chimeric peptide. <i>Biomaterials</i> , 2013, 34, 4680-4689.	11.4	105
20	MMP-2 responsive polymeric micelles for cancer-targeted intracellular drug delivery. <i>Chemical Communications</i> , 2015, 51, 465-468.	4.1	104
21	A Tumor Targeted Chimeric Peptide for Synergistic Endosomal Escape and Therapy by Dual-Stage Light Manipulation. <i>Advanced Functional Materials</i> , 2015, 25, 1248-1257.	14.9	103
22	Design of a Cellular Uptake Shielding Plug and Play Template for Photo Controllable Drug Release. <i>Advanced Materials</i> , 2011, 23, 3526-3530.	21.0	91
23	A Self-Transformable pH-Driven Membrane-Anchoring Photosensitizer for Effective Photodynamic Therapy to Inhibit Tumor Growth and Metastasis. <i>Advanced Functional Materials</i> , 2017, 27, 1702122.	14.9	89
24	Dual-Targeting Pro-apoptotic Peptide for Programmed Cancer Cell Death via Specific Mitochondria Damage. <i>Scientific Reports</i> , 2013, 3, 3468.	3.3	85
25	Biomedical polymers: synthesis, properties, and applications. <i>Science China Chemistry</i> , 2022, 65, 1010-1075.	8.2	85
26	One-Pot Construction of Functional Mesoporous Silica Nanoparticles for the Tumor-Acidity-Activated Synergistic Chemotherapy of Glioblastoma. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 7995-8001.	8.0	77
27	Charge-reversal plug gate nanovalves on peptide-functionalized mesoporous silica nanoparticles for targeted drug delivery. <i>Journal of Materials Chemistry B</i> , 2013, 1, 5723.	5.8	73
28	Targeted VEGF-triggered release of an anti-cancer drug from aptamer-functionalized metal-organic framework nanoparticles. <i>Nanoscale</i> , 2018, 10, 4650-4657.	5.6	70
29	Multifunctional Theranostic Nanoplatform for Cancer Combined Therapy Based on Gold Nanorods. <i>Advanced Healthcare Materials</i> , 2015, 4, 2247-2259.	7.6	68
30	A pH-responsive drug nanovehicle constructed by reversible attachment of cholesterol to PEGylated poly(L-lysine) via catechol-boronic acid ester formation. <i>Acta Biomaterialia</i> , 2014, 10, 3686-3695.	8.3	63
31	Tumor-Triggered Drug Release with Tumor-Targeted Accumulation and Elevated Drug Retention To Overcome Multidrug Resistance. <i>Chemistry of Materials</i> , 2016, 28, 6742-6752.	6.7	61
32	A Self-Driven Bioreactor Based on Bacterium-Metal-Organic Framework Biohybrids for Boosting Chemotherapy via Cyclic Lactate Catabolism. <i>ACS Nano</i> , 2021, 15, 17870-17884.	14.6	56
33	In situ recognition of cell-surface glycans and targeted imaging of cancer cells. <i>Scientific Reports</i> , 2013, 3, 2679.	3.3	54
34	Stepwise-Acid-Active Multifunctional Mesoporous Silica Nanoparticles for Tumor-Specific Nucleus-Targeted Drug Delivery. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 14568-14575.	8.0	52
35	Rational Design of Multifunctional Gold Nanoparticles via Host-Guest Interaction for Cancer-Targeted Therapy. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 17171-17180.	8.0	50
36	Programmed Nanococktail for Intracellular Cascade Reaction Regulating Self-Synergistic Tumor Targeting Therapy. <i>Small</i> , 2016, 12, 733-744.	10.0	47

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37	100th Anniversary of Macromolecular Science Viewpoint: Poly( <i>N</i> -isopropylacrylamide)-Based Thermally Responsive Micelles. <i>ACS Macro Letters</i> , 2020, 9, 872-881.	4.8	46
38	A new anti-cancer strategy of damaging mitochondria by pro-apoptotic peptide functionalized gold nanoparticles. <i>Chemical Communications</i> , 2013, 49, 6403.	4.1	41
39	Enzyme-Driven Release of Loads from Nucleic Acid-Capped Metal-Organic Framework Nanoparticles. <i>Advanced Functional Materials</i> , 2019, 29, 1805341.	14.9	41
40	miRNA-Specific Unlocking of Drug-Loaded Metal-Organic Framework Nanoparticles: Targeted Cytotoxicity toward Cancer Cells. <i>Small</i> , 2019, 15, e1900935.	10.0	38
41	Multi-Functional Envelope-Type Nanoparticles Assembled from Amphiphilic Peptidic Prodrug with Improved Anti-Tumor Activity. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 593-598.	8.0	36
42	Cancer-targeted functional gold nanoparticles for apoptosis induction and real-time imaging based on FRET. <i>Nanoscale</i> , 2014, 6, 9531.	5.6	35
43	Bioinspired Nano-Prodrug with Enhanced Tumor Targeting and Increased Therapeutic Efficiency. <i>Small</i> , 2015, 11, 5230-5242.	10.0	34
44	MicroRNA-Guided Selective Release of Loads from Micro-/Nanocarriers Using Auxiliary Constitutional Dynamic Networks. <i>ACS Nano</i> , 2020, 14, 1482-1491.	14.6	25
45	Modelling Photosynthesis with Zn II Protoporphyrin All-DNA Quadruplex/Aptamer Scaffolds. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 9163-9170.	13.8	17
46	Thrombin Aptamer-Modified Metal-Organic Framework Nanoparticles: Functional Nanostructures for Sensing Thrombin and the Triggered Controlled Release of Anti-Blood Clotting Drugs. <i>Sensors</i> , 2019, 19, 5260.	3.8	16
47	Photosensitized H <sub>2</sub> Evolution and NADPH Formation by Photosensitizer/Carbon Nitride Hybrid Nanoparticles. <i>Nano Letters</i> , 2019, 19, 9121-9130.	9.1	13
48	Artificial Photosynthesis with Electron Acceptor/Photosensitizer-Aptamer Conjugates. <i>Nano Letters</i> , 2019, 19, 6621-6628.	9.1	12
49	Drug Carriers: Stimuli-Responsive Nucleic Acid-Based Polyacrylamide Hydrogel-Coated Metal-Organic Framework Nanoparticles for Controlled Drug Release ( <i>Adv. Funct. Mater.</i> 8/2018). <i>Advanced Functional Materials</i> , 2018, 28, 1870053.	14.9	10
50	A Facile Multifunctionalized Gene Delivery Platform Based on $\beta$ , $\gamma$ Cyclodextrin Dimers. <i>ACS Biomaterials Science and Engineering</i> , 2015, 1, 1151-1162.	5.2	8
51	Modelling Photosynthesis with Zn II Protoporphyrin All-DNA Quadruplex/Aptamer Scaffolds. <i>Angewandte Chemie</i> , 2020, 132, 9248-9255.	2.0	8
52	A tumor-cell biomimetic nanoplatform embedding biological enzymes for enhanced metabolic therapy. <i>Chemical Communications</i> , 2021, 57, 9398-9401.	4.1	5
53	Tumor Targeting: Programmed Nanococktail for Intracellular Cascade Reaction Regulating Self-Synergistic Tumor Targeting Therapy ( <i>Small</i> 6/2016). <i>Small</i> , 2016, 12, 828-828.	10.0	4
54	A plug and play polymeric template driven by supramolecular interactions. <i>Journal of Biomedical Materials Research - Part A</i> , 2012, 100A, 149-154.	4.0	2

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55	Drug Delivery: ATP-Responsive Aptamer-Based Metal-Organic Framework Nanoparticles (NMOFs) for the Controlled Release of Loads and Drugs (Adv. Funct. Mater. 37/2017). Advanced Functional Materials, 2017, 27, .	14.9	2