Huiyu Liu

List of Publications by Year
in descending order

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88 papers	9,188 citations	53660 45 h-index	42291 92 g-index
92 all docs	92 docs citations	92 times ranked	11329 citing authors

#	Article	IF	Citations
1	The Shape Effect of Mesoporous Silica Nanoparticles on Biodistribution, Clearance, and Biocompatibility in Vivo. ACS Nano, 2011, 5, 5390-5399.	7.3	788
2	A Singleâ€Atom Nanozyme for Wound Disinfection Applications. Angewandte Chemie - International Edition, 2019, 58, 4911-4916.	7.2	607
3	Plasmonic Copper Sulfide Nanocrystals Exhibiting Near-Infrared Photothermal and Photodynamic Therapeutic Effects. ACS Nano, 2015, 9, 1788-1800.	7.3	536
4	Multifunctional Gold Nanoshells on Silica Nanorattles: A Platform for the Combination of Photothermal Therapy and Chemotherapy with Low Systemic Toxicity. Angewandte Chemie - International Edition, 2011, 50, 891-895.	7.2	473
5	Use of a Lipid-Coated Mesoporous Silica Nanoparticle Platform for Synergistic Gemcitabine and Paclitaxel Delivery to Human Pancreatic Cancer in Mice. ACS Nano, 2015, 9, 3540-3557.	7.3	367
6	Twoâ€Dimensional Nanomaterials for Photothermal Therapy. Angewandte Chemie - International Edition, 2020, 59, 5890-5900.	7.2	364
7	Metalâ€“Organicâ€Frameworkâ€Derived Carbon Nanostructure Augmented Sonodynamic Cancer Therapy. Advanced Materials, 2018, 30, e1800180.	11.1	362
8	A Nanozyme with Photoâ€Enhanced Dual Enzymeâ€Like Activities for Deep Pancreatic Cancer Therapy. Angewandte Chemie - International Edition, 2019, 58, 12624-12631.	7.2	345
9	Single and repeated dose toxicity of mesoporous hollow silica nanoparticles in intravenously exposed mice. Biomaterials, 2011, 32, 1657-1668.	5.7	313
10	In Vivo Delivery of Silica Nanorattle Encapsulated Docetaxel for Liver Cancer Therapy with Low Toxicity and High Efficacy. ACS Nano, 2010, 4, 6874-6882.	7.3	304
11	Metalâ€“Organicâ€Frameworkâ€Derived Mesoporous Carbon Nanospheres Containing Porphyrinâ€Like Metal Centers for Conformal Phototherapy. Advanced Materials, 2016, 28, 8379-8387.	11.1	264
12	Immunomodulationâ€Enhanced Nanozymeâ€Based Tumor Catalytic Therapy. Advanced Materials, 2020, 32, e2003563.	11.1	226
13	Biodistribution, excretion, and toxicity of mesoporous silica nanoparticles after oral administration depend on their shape. Nanomedicine: Nanotechnology, Biology, and Medicine, 2015, 11, 1915-1924.	1.7	203
14	A Silica Nanorattle with a Mesoporous Shell: An Ideal Nanoreactor for the Preparation of Tunable Gold Cores. Advanced Materials, 2010, 22, 4885-4889.	11.1	195
15	Sonodynamic therapy (SDT): a novel strategy for cancer nanotheranostics. Science China Life Sciences, 2018, 61, 415-426.	2.3	191
16	MOFâ€Derived Doubleâ€Layer Hollow Nanoparticles with Oxygen Generation Ability for Multimodal Imagingâ€Guided Sonodynamic Therapy. Angewandte Chemie - International Edition, 2020, 59, 13557-13561.	7.2	177
17	Targeting Gold Nanoshells on Silica Nanorattles: a Drug Cocktail to Fight Breast Tumors via a Single Irradiation with Nearâ€Infrared Laser Light. Advanced Materials, 2012, 24, 755-761.	11.1	173
18	A Bioinspired Fiveâ€Coordinated Singleâ€Atom Iron Nanozyme for Tumor Catalytic Therapy. Advanced Materials, 2022, 34, e2107088.	11.1	133

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19	Twoâ€Dimensional Nanomaterials for Cancer Nanotheranostics. Small, 2017, 13, 1603446.	5.2	130
20	MOFâ€Derived Doubleâ€Layer Hollow Nanoparticles with Oxygen Generation Ability for Multimodal Imagingâ€Guided Sonodynamic Therapy. Angewandte Chemie, 2020, 132, 13659-13663.	1.6	129
21	Multifunctional Carbonâ€“Silica Nanocapsules with Gold Core for Synergistic Photothermal and Chemoâ€Cancer Therapy under the Guidance of Bimodal Imaging. Advanced Functional Materials, 2016, 26, 4252-4261.	7.8	113
22	Degradable Holey Palladium Nanosheets with Highly Active 1D Nanoholes for Synergetic Phototherapy of Hypoxic Tumors. Journal of the American Chemical Society, 2020, 142, 5649-5656.	6.6	109
23	Solvothermal Synthesis of ZnO Nanoparticles and Anti-Infection Application in Vivo. ACS Applied Materials & Interfaces, 2015, 7, 1308-1317.	4.0	107
24	Degradable Carbonâ€“Silica Nanocomposite with Immunoadjuvant Property for Dual-Modality Photothermal/Photodynamic Therapy. ACS Nano, 2020, 14, 2847-2859.	7.3	103
25	Ultrasmall Fe-doped carbon dots nanozymes for photoenhanced antibacterial therapy and wound healing. Bioactive Materials, 2022, 12, 246-256.	8.6	101
26	A Singleâ€Atom Nanozyme for Wound Disinfection Applications. Angewandte Chemie, 2019, 131, 4965-4970.	1.6	94
27	Effects of graphene oxide on the development of offspring mice in lactation period. Biomaterials, 2015, 40, 23-31.	5.7	90
28	Twoâ€Dimensional Nanomaterials for Photothermal Therapy. Angewandte Chemie, 2020, 132, 5943-5953.	1.6	90
29	Multifunctional Fe₃O₄@P(St/MAA)@Chitosan@Au Core/Shell Nanoparticles for Dual Imaging and Photothermal Therapy. ACS Applied Materials & Interfaces, 2013, 5, 4966-4971.	4.0	87
30	A Comparative Study of Clinical Intervention and Interventional Photothermal Therapy for Pancreatic Cancer. Advanced Materials, 2017, 29, 1700448.	11.1	86
31	Manganese carbonate nanoparticlesâ€mediated mitochondrial dysfunction for enhanced sonodynamic therapy. Exploration, 2021, 1, .	5.4	80
32	Metalâ€“Organicâ€Frameworkâ€Derived Carbon Nanostructures for Siteâ€Specific Dualâ€Modality Photothermal/Photodynamic Thrombus Therapy. Advanced Science, 2019, 6, 1901378.	5.6	78
33	A Photoresponsive Nanozyme for Synergistic Catalytic Therapy and Dual Phototherapy. Small, 2021, 17, e2007090.	5.2	77
34	A smart all-in-one theranostic platform for CT imaging guided tumor microwave thermotherapy based on IL@ZrO₂nanoparticles. Chemical Science, 2015, 6, 5016-5026.	3.7	75
35	In Situ Growth of Pd Nanosheets on gâ€C₃N₄ Nanosheets with Wellâ€Contacted Interface and Enhanced Catalytic Performance for 4â€Nitrophenol Reduction. Small, 2018, 14, e1801812.	5.2	74
36	Fabricating Superhydrophilic Wool Fabrics. Langmuir, 2010, 26, 4675-4679.	1.6	71

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37	A Nanozyme with Photoâ€Enhanced Dual Enzymeâ€Like Activities for Deep Pancreatic Cancer Therapy. Angewandte Chemie, 2019, 131, 12754-12761.	1.6	71
38	NIR Laserâ€Triggered Microneedleâ€Based Liquid Bandâ€Aid for Wound Care. Advanced Functional Materials, 2021, 31, 2100218.	7.8	69
39	Activation of Prodrugs by NIRâ€Triggered Release of Exogenous Enzymes for Locoregional Chemoâ€photothermal Therapy. Angewandte Chemie - International Edition, 2019, 58, 7728-7732.	7.2	65
40	Photothermal therapy of Lewis lung carcinoma in mice using gold nanoshells on carboxylated polystyrene spheres. Nanotechnology, 2008, 19, 455101.	1.3	62
41	Biodegradable Poly(amino acid)â€“Goldâ€“Magnetic Complex with Efficient Endocytosis for Multimodal Imaging-Guided Chemo-photothermal Therapy. ACS Nano, 2018, 12, 9022-9032.	7.3	57
42	General Strategy for Designing Functionalized Magnetic Microspheres for Different Bioapplications. Langmuir, 2009, 25, 11657-11663.	1.6	55
43	Interventional Photothermal Therapy Enhanced Brachytherapy: A New Strategy to Fight Deep Pancreatic Cancer. Advanced Science, 2019, 6, 1801507.	5.6	53
44	Bioactive Metalâ€“Organic Frameworks with Specific Metalâ€“Nitrogen (Mâ€“N) Active Sites for Efficient Sonodynamic Tumor Therapy. ACS Nano, 2021, 15, 20003-20012.	7.3	53
45	Confining alloy or coreâ€“shell Auâ€“Pd bimetallic nanocrystals in silica nanorattles for enhanced catalytic performance. Journal of Materials Chemistry A, 2013, 1, 10382.	5.2	45
46	Fluorescence switching method for cascade detection of salicylaldehyde and zinc(II) ion using protein protected gold nanoclusters. Biosensors and Bioelectronics, 2015, 74, 322-328.	5.3	44
47	Gelatin microcapsules for enhanced microwave tumor hyperthermia. Nanoscale, 2015, 7, 3147-3154.	2.8	41
48	Aspect ratios of gold nanoshell capsules mediated melanoma ablation by synergistic photothermal therapy and chemotherapy. Nanomedicine: Nanotechnology, Biology, and Medicine, 2016, 12, 439-448.	1.7	41
49	Size dependent cellular uptake, in vivo fate and lightâ€“heat conversion efficiency of gold nanoshells on silica nanorattles. Nanoscale, 2012, 4, 3523.	2.8	40
50	Rational Design of DNA Frameworkâ€Based Hybrid Nanomaterials for Anticancer Drug Delivery. Small, 2020, 16, e2002578.	5.2	37
51	Photoâ€responsive nanozymes: Mechanism, activity regulation, and biomedical applications. View, 2021, 2, 20200045.	2.7	36
52	Impact of PEGylation on the biological effects and light heat conversion efficiency of gold nanoshells on silica nanorattles. Biomaterials, 2013, 34, 6967-6975.	5.7	35
53	Green synthesis of Fe₃O₄ nanoparticles with controlled morphologies using urease and their application in dye adsorption. Dalton Transactions, 2014, 43, 12474-12479.	1.6	34
54	Preparation and Characterization of Quantum Dots Coated Magnetic Hollow Spheres for Magnetic Fluorescent Multimodal Imaging and Drug Delivery. Journal of Nanoscience and Nanotechnology, 2009, 9, 2540-2545.	0.9	33

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55	Inhalable MOFâ€Derived Nanoparticles for Sonodynamic Therapy of Bacterial Pneumonia. Advanced Functional Materials, 2022, 32, .	7.8	31
56	Mesoporous magnetic hollow nanoparticlesâ€"protein carriers for lysosome escaping and cytosolic delivery. Nanotechnology, 2008, 19, 445101.	1.3	30
57	Uniform double-shelled silica hollow spheres: acid/base selective-etching synthesis and their drug delivery application. RSC Advances, 2013, 3, 5649.	1.7	28
58	Surface Wettability of Nanoparticle Modulated Sonothrombolysis. Advanced Materials, 2021, 33, e2007073.	11.1	28
59	From mouse to mouseâ€ear cress: Nanomaterials as vehicles in plant biotechnology. Exploration, 2021, 1, 9-20.	5.4	27
60	Solventâ€Dependent Adsorptionâ€Driven Mechanism for MOFsâ€Based Yolkâ€"Shell Nanostructures. Angewandte Chemie - International Edition, 2021, 60, 7802-7808.	7.2	26
61	DNA Logic Circuits for Cancer Theranostics. Small, 2022, 18, e2108008.	5.2	26
62	Biodegradable Nanocomposite with Dual Cellâ€Tissue Penetration for Deep Tumor Chemoâ€Phototherapy. Small, 2020, 16, e2000809.	5.2	23
63	Effect of takeâ€up speed on polyvinylidene fluoride hollow fiber membrane in a thermally induced phase separation process. Journal of Applied Polymer Science, 2013, 128, 1054-1060.	1.3	22
64	Biosynthesis of fluorescent gold nanoclusters for in vitro and in vivo tumor imaging. Optics Communications, 2015, 355, 567-574.	1.0	22
65	Molecular Imaging-Guided Sonodynamic Therapy. Bioconjugate Chemistry, 2022, 33, 993-1010.	1.8	20
66	Facile synthesis of a highly luminescent carbon dot@silica nanorattle for in vivo bioimaging. RSC Advances, 2015, 5, 46158-46162.	1.7	18
67	Tensileâ€Strained Palladium Nanosheets for Synthetic Catalytic Therapy and Phototherapy. Advanced Materials, 2022, 34, .	11.1	18
68	NIR lightâ€triggered nanomaterialsâ€based prodrug activation towards cancer therapy. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2020, 12, e1643.	3.3	17
69	Acute toxicity and oxidative damage induced by silica nanorattle in vivo. Science Bulletin, 2012, 57, 2525-2532.	1.7	16
70	Fabrication of Fastâ€Absorbing and Quickâ€Drying Wool Fabrics with Good Washing Durability. ChemSusChem, 2010, 3, 1031-1035.	3.6	15
71	Preparation of magnetic rattle-type silica through a general and facile pre-shellâ€"post-core process for simultaneous cancer imaging and therapy. Chemical Communications, 2013, 49, 7902.	2.2	13
72	Hydrophilic Polyelectrolyte Multilayers Improve the ELISA System: Antibody Enrichment and Blocking Free. Polymers, 2017, 9, 51.	2.0	13

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73	High-yield preparation of robust gold nanoshells on silica nanorattles with good biocompatiblity. Science Bulletin, 2016, 61, 282-291.	4.3	12
74	Photothermal Adjunctive Cytoreductive Surgery for Treating Peritoneal Metastasis of Gastric Cancer. Small Methods, 2018, 2, 1700368.	4.6	12
75	Rod-shaped cavitation bubble structure in ultrasonic field. Ultrasonics Sonochemistry, 2018, 44, 184-195.	3.8	12
76	Oxidation Etchingâ€Induced Postâ€Crystallization of Palladium Nanosheets for Efficient Catalytic Hydrogenation. Small, 2021, 17, e2006624.	5.2	12
77	A study of the electron transfer and photothermal effect of gold nanorods on a glucose biosensor. Nanotechnology, 2010, 21, 185504.	1.3	10
78	Size Effect of Mesoporous and Hollow Silica Nanoparticles on Solid Tumor Targeting and Penetration. Journal of Nanoscience and Nanotechnology, 2016, 16, 6766-6772.	0.9	10
79	New Advances in Nanomaterialâ€Based Antiviral Strategies. Small Structures, 2022, 3, .	6.9	7
80	Phototherapy: Metalâ€“Organicâ€Frameworkâ€Derived Mesoporous Carbon Nanospheres Containing Porphyrinâ€Like Metal Centers for Conformal Phototherapy (Adv. Mater. 38/2016). Advanced Materials, 2016, 28, 8318-8318.	11.1	5
81	Nanotheranostics: Metalâ€“Organicâ€Frameworkâ€Derived Carbon Nanostructures for Siteâ€Specific Dualâ€Modality Photothermal/Photodynamic Thrombus Therapy (Adv. Sci. 17/2019). Advanced Science, 2019, 6, 1970106.	5.6	4
82	Cancer Therapy: Multifunctional Carbon-Silica Nanocapsules with Gold Core for Synergistic Photothermal and Chemo-Cancer Therapy under the Guidance of Bimodal Imaging (Adv. Funct. Mater.) Tj ETQq0 0 0 rgBT /Overlock 10 T	0.8	3
83	Nanotheranostics: Metal-Organic-Framework-Derived Carbon Nanostructure Augmented Sonodynamic Cancer Therapy (Adv. Mater. 23/2018). Advanced Materials, 2018, 30, 1870163.	11.1	3
84	Dual Electrophoresis Detection System for Rapid and Sensitive Immunoassays with Nanoparticle Signal Amplification. Scientific Reports, 2017, 7, 42562.	1.6	2
85	Solventâ€Dependent Adsorptionâ€Driven Mechanism for MOFsâ€Based Yolkâ€“Shell Nanostructures. Angewandte Chemie, 2021, 133, 7881-7887.	1.6	2
86	Nanozymes: A Photoresponsive Nanozyme for Synergistic Catalytic Therapy and Dual Phototherapy (Small 10/2021). Small, 2021, 17, 2170042.	5.2	2
87	A Rapid and Specific C-Reactive Protein Immunoassay Driven by an Electrophoresis System Based on Protein Enrichment in a 3D Filter. Nanoscience and Nanotechnology Letters, 2017, 9, 425-432.	0.4	2
88	Activation of Prodrugs by NIRâ€Triggered Release of Exogenous Enzymes for Locoregional Chemoâ€phototherapy. Angewandte Chemie, 2019, 131, 7810-7814.	1.6	1