Huaimin Wang

List of Publications by Year
in descending order

93 papers	5,746 citations	57758 44 h-index	76900 74 g-index
99 all docs	99 docs citations	99 times ranked	4837 citing authors

#	Article	IF	Citations
1	Integrating Enzymatic Self-Assembly and Mitochondria Targeting for Selectively Killing Cancer Cells without Acquired Drug Resistance. Journal of the American Chemical Society, 2016, 138, 16046-16055.	13.7	254
2	Dephosphorylation of <scp>d</scp>-Peptide Derivatives to Form Biofunctional, Supramolecular Nanofibers/Hydrogels and Their Potential Applications for Intracellular Imaging and Intratumoral Chemotherapy. Journal of the American Chemical Society, 2013, 135, 9907-9914.	13.7	226
3	A Powerful CD8⁺ Tâ€Cell Stimulating Dâ€Tetraâ€Peptide Hydrogel as a Very Promising Vaccine Adjuvant. Advanced Materials, 2017, 29, 1601776.	21.0	198
4	Bioinspired assembly of small molecules in cell milieu. Chemical Society Reviews, 2017, 46, 2421-2436.	38.1	188
5	Enzymatic Assemblies Disrupt the Membrane and Target Endoplasmic Reticulum for Selective Cancer Cell Death. Journal of the American Chemical Society, 2018, 140, 9566-9573.	13.7	174
6	Enzyme Promotes the Hydrogelation from a Hydrophobic Small Molecule. Journal of the American Chemical Society, 2009, 131, 11286-11287.	13.7	170
7	Enzymeâ€Catalyzed Formation of Supramolecular Hydrogels as Promising Vaccine Adjuvants. Advanced Functional Materials, 2016, 26, 1822-1829.	14.9	163
8	The inhibition of tumor growth and metastasis by self-assembled nanofibers of taxol. Biomaterials, 2012, 33, 5848-5853.	11.4	162
9	Enzymeâ€Instructed Intracellular Molecular Selfâ€Assembly to Boost Activity of Cisplatin against Drugâ€Resistant Ovarian Cancer Cells. Angewandte Chemie - International Edition, 2015, 54, 13307-13311.	13.8	158
10	A Peptide-Based Nanofibrous Hydrogel as a Promising DNA Nanovector for Optimizing the Efficacy of HIV Vaccine. Nano Letters, 2014, 14, 1439-1445.	9.1	157
11	Enzymatic Cleavage of Branched Peptides for Targeting Mitochondria. Journal of the American Chemical Society, 2018, 140, 1215-1218.	13.7	149
12	Supramolecular catalysis and dynamic assemblies for medicine. Chemical Society Reviews, 2017, 46, 6470-6479.	38.1	137
13	Rational Design of a Tetrameric Protein to Enhance Interactions between Selfâ€Assembled Fibers Gives Molecular Hydrogels. Angewandte Chemie - International Edition, 2012, 51, 4388-4392.	13.8	122
14	Enzyme-Instructed Assembly and Disassembly Processes for Targeting Downregulation in Cancer Cells. Journal of the American Chemical Society, 2017, 139, 3950-3953.	13.7	122
15	Short-peptide-based molecular hydrogels: novel gelation strategies and applications for tissue engineering and drug delivery. Nanoscale, 2012, 4, 5259.	5.6	121
16	Enzyme-Instructed Peptide Assemblies Selectively Inhibit Bone Tumors. CheM, 2019, 5, 2442-2449.	11.7	118
17	Conjugation of two complementary anti-cancer drugs confers molecular hydrogels as a co-delivery system. Chemical Communications, 2012, 48, 395-397.	4.1	113
18	When Molecular Probes Meet Selfâ€Assembly: An Enhanced Quenching Effect. Angewandte Chemie - International Edition, 2015, 54, 4823-4827.	13.8	112

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19	Self-Assembling Ability Determines the Activity of Enzyme-Instructed Self-Assembly for Inhibiting Cancer Cells. Journal of the American Chemical Society, 2017, 139, 15377-15384.	13.7	108
20	Enzyme-Regulated Supramolecular Assemblies of Cholesterol Conjugates against Drug-Resistant Ovarian Cancer Cells. Journal of the American Chemical Society, 2016, 138, 10758-10761.	13.7	102
21	Active Probes for Imaging Membrane Dynamics of Live Cells with High Spatial and Temporal Resolution over Extended Time Scales and Areas. Journal of the American Chemical Society, 2018, 140, 3505-3509.	13.7	100
22	Assemblies of Peptides in a Complex Environment and their Applications. Angewandte Chemie - International Edition, 2019, 58, 10423-10432.	13.8	99
23	Self-assembled nanospheres as a novel delivery system for taxol: a molecular hydrogel with nanosphere morphology. Chemical Communications, 2011, 47, 4439.	4.1	98
24	Peptide-Induced AIEgen Self-Assembly: A New Strategy to Realize Highly Sensitive Fluorescent Light-Up Probes. Analytical Chemistry, 2016, 88, 3872-3878.	6.5	97
25	Self-Assembly-Induced Far-Red/Near-Infrared Fluorescence Light-Up for Detecting and Visualizing Specific Proteinâ€"Peptide Interactions. ACS Nano, 2014, 8, 1475-1484.	14.6	79
26	A structureâ€"gelation ability study in a short peptide-based â€˜Super Hydrogelatorâ€™ system. Soft Matter, 2011, 7, 3897.	2.7	77
27	Molecular hydrogels of hydrophobic compounds: a novel self-delivery system for anti-cancer drugs. Soft Matter, 2012, 8, 2344-2347.	2.7	77
28	D-amino acid-containing supramolecular nanofibers for potential cancer therapeutics. Advanced Drug Delivery Reviews, 2017, 110-111, 102-111.	13.7	74
29	Controlling peptidebased hydrogelation. Materials Today, 2012, 15, 500-507.	14.2	72
30	Nucleopeptide Assemblies Selectively Sequester ATP in Cancer Cells to Increase the Efficacy of Doxorubicin. Angewandte Chemie - International Edition, 2018, 57, 4931-4935.	13.8	71
31	Instructed Assembly of Peptides for Intracellular Enzyme Sequestration. Journal of the American Chemical Society, 2018, 140, 16433-16437.	13.7	66
32	Intercellular Instructed-Assembly Mimics Protein Dynamics To Induce Cell Spheroids. Journal of the American Chemical Society, 2019, 141, 7271-7274.	13.7	66
33	Supramolecular Selfâ€Assemblyâ€Facilitated Aggregation of Tumorâ€Specific Transmembrane Receptors for Signaling Activation and Converting Immunologically Cold to Hot Tumors. Advanced Materials, 2021, 33, e2008518.	21.0	66
34	Supramolecular hydrogels inspired by collagen for tissue engineering. Organic and Biomolecular Chemistry, 2010, 8, 3267.	2.8	62
35	Environment-Sensitive Fluorescent Supramolecular Nanofibers for Imaging Applications. Analytical Chemistry, 2014, 86, 2193-2199.	6.5	61
36	Rational design of a photo-responsive UVR8-derived protein and a self-assembling peptideâ€"protein conjugate for responsive hydrogel formation. Nanoscale, 2015, 7, 16666-16670.	5.6	58

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37	Selectively Inducing Cancer Cell Death by Intracellular Enzymeâ€Instructed Selfâ€Assembly (EISA) of Dipeptide Derivatives. Advanced Healthcare Materials, 2017, 6, 1601400.	7.6	56
38	Artificial Intracellular Filaments. Cell Reports Physical Science, 2020, 1, 100085.	5.6	56
39	Drug delivery with nanospherical supramolecular cell penetrating peptideâ€“taxol conjugates containing a high drug loading. Journal of Colloid and Interface Science, 2015, 453, 15-20.	9.4	54
40	Recombinant proteins as cross-linkers for hydrogelations. Chemical Society Reviews, 2013, 42, 891-901.	38.1	50
41	An inâ€…situ Dynamic Continuum of Supramolecular Phosphoglycopeptides Enables Formation of 3D Cell Spheroids. Angewandte Chemie - International Edition, 2017, 56, 16297-16301.	13.8	50
42	Intracellular Condensates of Oligopeptide for Targeting Lysosome and Addressing Multiple Drug Resistance of Cancer. Advanced Materials, 2022, 34, e2104704.	21.0	47
43	Enzyme-triggered self-assembly of a small molecule: a supramolecular hydrogel with leaf-like structures and an ultra-low minimum gelation concentration. Nanotechnology, 2010, 21, 225606.	2.6	46
44	Supramolecular Assemblies of Peptides or Nucleopeptides for Gene Delivery. Theranostics, 2019, 9, 3213-3222.	10.0	46
45	A saccharide-based supramolecular hydrogel for cell culture. Carbohydrate Research, 2011, 346, 1013-1017.	2.3	45
46	Instructed Assembly as Contextâ€Dependent Signaling for the Death and Morphogenesis of Cells. Angewandte Chemie - International Edition, 2019, 58, 5567-5571.	13.8	45
47	A hybrid hydrogel for efficient removal of methyl violet from aqueous solutions. Colloids and Surfaces B: Biointerfaces, 2010, 80, 155-160.	5.0	42
48	Interfacial self-assembly leads to formation of fluorescent nanoparticles for simultaneous bacterial detection and inhibition. Chemical Communications, 2014, 50, 3473-3475.	4.1	41
49	Highly stable surface modifications of poly(3-caprolactone) (PCL) films by molecular self-assembly to promote cells adhesion and proliferation. Chemical Communications, 2011, 47, 8901.	4.1	39
50	Anti-degradation of a recombinant complex protein by incoporation in small molecular hydrogels. Chemical Communications, 2011, 47, 955-957.	4.1	38
51	Multifunctional biohybrid hydrogels for cell culture and controlled drug release. Chemical Communications, 2013, 49, 7448.	4.1	38
52	Supramolecular nanofibers of self-assembling peptides and proteins for protein delivery. Chemical Communications, 2015, 51, 14239-14242.	4.1	36
53	Branched peptides for enzymatic supramolecular hydrogelation. Chemical Communications, 2018, 54, 86-89.	4.1	36
54	Structureâ€Based Programming of Supramolecular Assemblies in Living Cells for Selective Cancer Cell Inhibition. Angewandte Chemie - International Edition, 2021, 60, 21807-21816.	13.8	33

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55	Assemblies of <scp>d</scp>-Peptides for Targeting Cell Nucleolus. Bioconjugate Chemistry, 2019, 30, 2528-2532.	3.6	32
56	Molecular hydrogelators consist of Taxol and short peptides/amino acids. Journal of Materials Chemistry, 2012, 22, 16933.	6.7	30
57	Janus nanogels of PEGylated Taxol and PLGAâ€“PEGâ€“PLGA copolymer for cancer therapy. Nanoscale, 2013, 5, 9902.	5.6	30
58	Biocompatible fluorescent supramolecular nanofibrous hydrogel for long-term cell tracking and tumor imaging applications. Scientific Reports, 2015, 5, 16680.	3.3	30
59	Minimal C-terminal modification boosts peptide self-assembling ability for necroptosis of cancer cells. Chemical Communications, 2016, 52, 6332-6335.	4.1	30
60	A thixotropic molecular hydrogel selectively enhances Flk1 expression in differentiated murine embryonic stem cells. Soft Matter, 2011, 7, 5430.	2.7	26
61	Spatiotemporal Control over Chemical Assembly in Living Cells by Integration of Acidâ€Catalyzed Hydrolysis and Enzymatic Reactions. Angewandte Chemie - International Edition, 2021, 60, 23797-23804.	13.8	26
62	BSA-stabilized molecular hydrogels of a hydrophobic compound. Nanoscale, 2012, 4, 3047.	5.6	24
63	In situ formation of peptidic nanofibers can fundamentally optimize the quality of immune responses against HIV vaccine. Nanoscale Horizons, 2016, 1, 135-143.	8.0	24
64	Hyperâ€Crosslinkers Lead to Temperatureâ€•and pHâ€Responsive Polymeric Nanogels with Unusual Volume Change. Angewandte Chemie - International Edition, 2017, 56, 2623-2627.	13.8	24
65	Assemblies of Peptides in a Complex Environment and their Applications. Angewandte Chemie, 2019, 131, 10532-10541.	2.0	24
66	Cellular Membrane Enrichment of Self-Assembling <scp>d</scp>-Peptides for Cell Surface Engineering. ACS Applied Materials & Interfaces, 2014, 6, 9815-9821.	8.0	23
67	Optically Active Flavaglines-Inspired Molecules by a Palladium-Catalyzed Decarboxylative Dearomative Asymmetric Allylic Alkylation. Journal of the American Chemical Society, 2020, 142, 12039-12045.	13.7	23
68	Instant Hydrogelation Inspired by Inflammasomes. Angewandte Chemie - International Edition, 2017, 56, 7579-7583.	13.8	22
69	Unraveling the Cellular Mechanism of Assembling Cholesterols for Selective Cancer Cell Death. Molecular Cancer Research, 2019, 17, 907-917.	3.4	20
70	Enzyme-assisted formation of nanosphere: a potential carrier for hydrophobic compounds. Nanotechnology, 2010, 21, 155602.	2.6	18
71	Glutathione-Triggered Formation of a Fmoc-Protected Short Peptide-Based Supramolecular Hydrogel. PLoS ONE, 2014, 9, e106968.	2.5	18
72	Molecular Hydrogels with Esteraseâ€like Activity. Chinese Journal of Chemistry, 2013, 31, 494-500.	4.9	14

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73	Nucleopeptide Assemblies Selectively Sequester ATP in Cancer Cells to Increase the Efficacy of Doxorubicin. Angewandte Chemie, 2018, 130, 5025-5029.	2.0	14
74	Instructedâ€assembly of small peptides inhibits drugâ€resistant prostate cancer cells. Peptide Science, 2020, 112, e24123.	1.8	14
75	Biomimetic Heterodimerization of Tetrapeptides to Generate Liquid Crystalline Hydrogel in A Two-Component System. ACS Nano, 2022, 16, 4126-4138.	14.6	14
76	An inâ€...situ Dynamic Continuum of Supramolecular Phosphoglycopeptides Enables Formation of 3D Cell Spheroids. Angewandte Chemie, 2017, 129, 16515-16519.	2.0	11
77	Molecular Engineering of Peptideâ€"Drug Conjugates for Therapeutics. Pharmaceutics, 2022, 14, 212.	4.5	11
78	Enzyme-instructed assembly of a cholesterol conjugate promotes pro-inflammatory macrophages and induces apoptosis of cancer cells. Biomaterials Science, 2020, 8, 2007-2017.	5.4	10
79	Precursorâ€involved and Conversion Rateâ€controlled Selfâ€assembly of a 'Super Gelator' in Thixotropic Hydrogels for Drug Delivery. Chinese Journal of Chemistry, 2012, 30, 1781-1787.	4.9	9
80	Intramitochondrial co-assembly between ATP and nucleopeptides induces cancer cell apoptosis. Chemical Science, 2022, 13, 6197-6204.	7.4	9
81	Instant Hydrogelation Inspired by Inflammasomes. Angewandte Chemie, 2017, 129, 7687-7691.	2.0	7
82	Instructed Assembly as Contextâ€Dependent Signaling for the Death and Morphogenesis of Cells. Angewandte Chemie, 2019, 131, 5623-5627.	2.0	7
83	Tandem molecular self-assembly for selective lung cancer therapy with an increase in efficiency by two orders of magnitude. Nanoscale, 2021, 13, 10891-10897.	5.6	7
84	Controlling supramolecular filament chirality of hydrogel by co-assembly of enantiomeric aromatic peptides. Journal of Nanobiotechnology, 2022, 20, 77.	9.1	7
85	Dynamic Continuum of Molecular Assemblies for Controlling Cell Fates. ChemBioChem, 2019, 20, 2442-2446.	2.6	6
86	Heterotypic Supramolecular Hydrogels Formed by Noncovalent Interactions in Inflammasomes. Molecules, 2021, 26, 77.	3.8	5
87	In Situ Construction of Functional Assemblies in Living Cells for Cancer Therapy. Advanced Healthcare Materials, 2021, 10, 2100381.	7.6	4
88	Intracellular Condensates of Oligopeptide for Targeting Lysosome and Addressing Multiple Drug Resistance of Cancer (Adv. Mater. 1/2022). Advanced Materials, 2022, 34, 2270005.	21.0	4
89	Hyperâ€Crosslinkers Lead to Temperatureâ€ and pHâ€Responsive Polymeric Nanogels with Unusual Volume Change. Angewandte Chemie, 2017, 129, 2667-2671.	2.0	3
90	Structureâ€Based Programming of Supramolecular Assemblies in Living Cells for Selective Cancer Cell Inhibition. Angewandte Chemie, 2021, 133, 21978-21987.	2.0	2

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91	Spatiotemporal Control over Chemical Assembly in Living Cells by Integration of Acid Catalyzed Hydrolysis and Enzymatic Reaction. Angewandte Chemie, 2021, 133, 23990.	2.0	2
92	Frontispiz: Structureâ€Based Programming of Supramolecular Assemblies in Living Cells for Selective Cancer Cell Inhibition. Angewandte Chemie, 2021, 133, .	2.0	0
93	Frontispiece: Structureâ€Based Programming of Supramolecular Assemblies in Living Cells for Selective Cancer Cell Inhibition. Angewandte Chemie - International Edition, 2021, 60, .	13.8	0