Xuewen Du

List of Publications by Year
in descending order

60 papers	4,821 citations	159585 30 h-index	128289 60 g-index
63 all docs	63 docs citations	63 times ranked	5314 citing authors

#	Article	IF	Citations
1	Supramolecular Hydrogelators and Hydrogels: From Soft Matter to Molecular Biomaterials. Chemical Reviews, 2015, 115, 13165-13307.	47.7	1,497
2	Magnetic nanoparticles for the manipulation of proteins and cells. Chemical Society Reviews, 2012, 41, 2912.	38.1	342
3	<scp>d</scp>-Amino Acids Boost the Selectivity and Confer Supramolecular Hydrogels of a Nonsteroidal Anti-Inflammatory Drug (NSAID). Journal of the American Chemical Society, 2013, 135, 542-545.	13.7	264
4	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
5	Enzyme-Instructed Self-Assembly of Small <scp>d</scp>-Peptides as a Multiple-Step Process for Selectively Killing Cancer Cells. Journal of the American Chemical Society, 2016, 138, 3813-3823.	13.7	220
6	Supramolecular biofunctional materials. Biomaterials, 2017, 129, 1-27.	11.4	196
7	Enzyme-Instructed Self-Assembly for Spatiotemporal Profiling of the Activities of Alkaline Phosphatases on Live Cells. CheM, 2016, 1, 246-263.	11.7	143
8	Taurine Boosts Cellular Uptake of Small <scp>d</scp>-Peptides for Enzyme-Instructed Intracellular Molecular Self-Assembly. Journal of the American Chemical Society, 2015, 137, 10040-10043.	13.7	140
9	Aromaticâ€“Aromatic Interactions Enhance Interfiber Contacts for Enzymatic Formation of a Spontaneously Aligned Supramolecular Hydrogel. Journal of the American Chemical Society, 2014, 136, 2970-2973.	13.7	126
10	Aromaticâ€“Aromatic Interactions Enable Î±-Helix to Î²-Sheet Transition of Peptides to Form Supramolecular Hydrogels. Journal of the American Chemical Society, 2017, 139, 71-74.	13.7	124
11	Supramolecular Hydrogels Made of Basic Biological Building Blocks. Chemistry - an Asian Journal, 2014, 9, 1446-1472.	3.3	105
12	<scp>d</scp>-Amino Acids Modulate the Cellular Response of Enzymatic-Instructed Supramolecular Nanofibers of Small Peptides. Biomacromolecules, 2014, 15, 3559-3568.	5.4	98
13	Regulating the Rate of Molecular Selfâ€Assembly for Targeting Cancer Cells. Angewandte Chemie - International Edition, 2016, 55, 5770-5775.	13.8	77
14	Introducing <scp>d</scp>-Amino Acid or Simple Glycoside into Small Peptides to Enable Supramolecular Hydrogelators to Resist Proteolysis. Langmuir, 2012, 28, 13512-13517.	3.5	76
15	Mixing Biomimetic Heterodimers of Nucleopeptides to Generate Biocompatible and Biostable Supramolecular Hydrogels. Angewandte Chemie - International Edition, 2015, 54, 5705-5708.	13.8	71
16	Enzymatic Self-Assembly Confers Exceptionally Strong Synergism with NF-ÎºB Targeting for Selective Necroptosis of Cancer Cells. Journal of the American Chemical Society, 2018, 140, 2301-2308.	13.7	63
17	Selfâ€Delivery Multifunctional Antiâ€HIV Hydrogels for Sustained Release. Advanced Healthcare Materials, 2013, 2, 1586-1590.	7.6	60
18	Selectively Inducing Cancer Cell Death by Intracellular Enzymeâ€Instructed Selfâ€Assembly (EISA) of Dipeptide Derivatives. Advanced Healthcare Materials, 2017, 6, 1601400.	7.6	56

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19	Supramolecular Assemblies of a Conjugate of Nucleobase, Amino Acids, and Saccharide Act as Agonists for Proliferation of Embryonic Stem Cells and Development of Zygotes. Bioconjugate Chemistry, 2014, 25, 1031-1035.	3.6	43
20	Supramolecular hydrogels formed by the conjugates of nucleobases, Arg-Gly-Asp (RGD) peptides, and glucosamine. Soft Matter, 2012, 8, 7402.	2.7	42
21	Ligandâ€“Receptor Interaction Catalyzes the Aggregation of Small Molecules To Induce Cell Necroptosis. Journal of the American Chemical Society, 2015, 137, 26-29.	13.7	42
22	Ligandâ€“Receptor Interaction Modulates the Energy Landscape of Enzyme-Instructed Self-Assembly of Small Molecules. Journal of the American Chemical Society, 2016, 138, 15397-15404.	13.7	42
23	Imaging Self-Assembly Dependent Spatial Distribution of Small Molecules in a Cellular Environment. Langmuir, 2013, 29, 15191-15200.	3.5	41
24	In situ generated Dâ€peptidic nanofibrils as multifaceted apoptotic inducers to target cancer cells. Cell Death and Disease, 2017, 8, e2614-e2614.	6.3	40
25	Photoinduced Tandem Reactions of Isoquinoline-1,3,4-trione with Alkynes To Build Aza-polycycles. Journal of Organic Chemistry, 2010, 75, 2989-3001.	3.2	39
26	Supramolecular Nanofibrils Inhibit Cancer Progression In Vitro and In Vivo. Advanced Healthcare Materials, 2014, 3, 1217-1221.	7.6	39
27	Kinetic Analysis of Nanostructures Formed by Enzyme-Instructed Intracellular Assemblies against Cancer Cells. ACS Nano, 2018, 12, 3804-3815.	14.6	38
28	Catalytic dephosphorylation of adenosine monophosphate (AMP) to form supramolecular nanofibers/hydrogels. Chemical Communications, 2012, 48, 2098.	4.1	34
29	Supramolecular Glycosylation Accelerates Proteolytic Degradation of Peptide Nanofibrils. Journal of the American Chemical Society, 2015, 137, 10092-10095.	13.7	32
30	Selection of Secondary Structures of Heterotypic Supramolecular Peptide Assemblies by an Enzymatic Reaction. Angewandte Chemie - International Edition, 2018, 57, 11716-11721.	13.8	31
31	Interactions between cellular proteins and morphologically different nanoscale aggregates of small molecules. RSC Advances, 2013, 3, 7704.	3.6	30
32	Minimal C-terminal modification boosts peptide self-assembling ability for necroptosis of cancer cells. Chemical Communications, 2016, 52, 6332-6335.	4.1	30
33	A naphthalene-containing amino acid enables hydrogelation of a conjugate of nucleobaseâ€“saccharideâ€“amino acids. Chemical Communications, 2014, 50, 1992.	4.1	25
34	Enzymatic Transformation of Phosphate Decorated Magnetic Nanoparticles for Selectively Sorting and Inhibiting Cancer Cells. Bioconjugate Chemistry, 2014, 25, 2129-2133.	3.6	24
35	Enzyme-instructed self-assembly of peptides containing phosphoserine to form supramolecular hydrogels as potential soft biomaterials. Frontiers of Chemical Science and Engineering, 2017, 11, 509-515.	4.4	24
36	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

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37	Enzyme-instructed self-assembly of hydrogelators consisting of nucleobases, amino acids, and saccharide. RSC Advances, 2014, 4, 26487.	3.6	23
38	Chirality Controls Reactionâ€Diffusion of Nanoparticles for Inhibiting Cancer Cells. ChemNanoMat, 2017, 3, 17-21.	2.8	23
39	Self-assembly of nucleopeptides to interact with DNAs. Interface Focus, 2017, 7, 20160116.	3.0	22
40	Regulating the Rate of Molecular Selfâ€Assembly for Targeting Cancer Cells. Angewandte Chemie, 2016, 128, 5864-5869.	2.0	21
41	Cellular Uptake of A Taurine-Modified, Ester Bond-Decorated D-Peptide Derivative via Dynamin-Based Endocytosis and Macropinocytosis. Molecular Therapy, 2018, 26, 648-658.	8.2	20
42	Synthesis of novel conjugates of a saccharide, amino acids, nucleobase and the evaluation of their cell compatibility. Beilstein Journal of Organic Chemistry, 2014, 10, 2406-2413.	2.2	18
43	Adaptive Multifunctional Supramolecular Assemblies of Glycopeptides Rapidly Enable Morphogenesis. Biochemistry, 2018, 57, 4867-4879.	2.5	17
44	Cellâ€Compatible Nanoprobes for Imaging Intracellular Phosphatase Activities. ChemBioChem, 2019, 20, 526-531.	2.6	16
45	Ectoenzyme switches the surface of magnetic nanoparticles for selective binding of cancer cells. Journal of Colloid and Interface Science, 2015, 447, 273-277.	9.4	15
46	The first CD73-instructed supramolecular hydrogel. Journal of Colloid and Interface Science, 2015, 447, 269-272.	9.4	15
47	Enzymatic formation of curcumin in vitro and in vivo. Nano Research, 2018, 11, 3453-3461.	10.4	14
48	Prion-like nanofibrils of small molecules (PriSM): A new frontier at the intersection of supramolecular chemistry and cell biology. Prion, 2015, 9, 110-118.	1.8	12
49	The enzyme-instructed assembly of the core of yeast prion Sup35 to form supramolecular hydrogels. Journal of Materials Chemistry B, 2016, 4, 1318-1323.	5.8	11
50	Selection of Secondary Structures of Heterotypic Supramolecular Peptide Assemblies by an Enzymatic Reaction. Angewandte Chemie, 2018, 130, 11890-11895.	2.0	11
51	Nanonets Collect Cancer Secretome from Pericellular Space. PLoS ONE, 2016, 11, e0154126.	2.5	11
52	Enzyme transformation to modulate the ligandâ€"receptor interactions between small molecules. Chemical Communications, 2015, 51, 4899-4901.	4.1	10
53	Supramolecular Detoxification of Neurotoxic Nanofibrils of Small Molecules via Morphological Switch. Bioconjugate Chemistry, 2015, 26, 1879-1883.	3.6	7
54	Enzymatic self-assembly of an immunoreceptor tyrosine-based inhibitory motif (ITIM). Organic and Biomolecular Chemistry, 2017, 15, 5689-5692.	2.8	7

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55	A Crowding Barrier to Protein Inhibition in Colloidal Aggregates. Journal of Medicinal Chemistry, 2021, 64, 4109-4116.	6.4	7
56	Synthesis and evaluation of the biostability and cell compatibility of novel conjugates of nucleobase, peptidic epitope, and saccharide. Beilstein Journal of Organic Chemistry, 2015, 11, 1352-1359.	2.2	6
57	Downâ€regulating Proteolysis to Enhance Anticancer Activity of Peptide Nanofibers. Chemistry - an Asian Journal, 2018, 13, 3464-3468.	3.3	6
58	Supramolecular Nanofibers/Hydrogels of the Conjugates of Nucleobase, Saccharide, and Amino Acids. Chinese Journal of Chemistry, 2014, 32, 313-318.	4.9	3
59	Hyperâ€Crosslinkers Lead to Temperatureâ€and pHâ€Responsive Polymeric Nanogels with Unusual Volume Change. Angewandte Chemie, 2017, 129, 2667-2671.	2.0	3
60	Spatiotemporal Profiling the Activities of Ectophosphatases on Cancer Cells by Molecular Imaging. FASEB Journal, 2015, 29, 577.8.	0.5	0