Yuan Gao

List of Publications by Year
in descending order

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71 papers	5,695 citations	87888 38 h-index	91884 69 g-index
74 all docs	74 docs citations	74 times ranked	5178 citing authors

#	Article	IF	Citations
1	Bioorthogonal Disassembly of Tetrazine Bearing Supramolecular Assemblies Inside Living Cells. Small, 2022, 18, e2104772.	10.0	3
2	Gag Protein Oriented Supramolecular Nets as Potential HIV Traps. Bioconjugate Chemistry, 2021, 32, 106-110.	3.6	0
3	Pathological environment directed in situ peptidic supramolecular assemblies for nanomedicines. Biomedical Materials (Bristol), 2021, 16, 022011.	3.3	6
4	Redox-Mediated Reversible Supramolecular Assemblies Driven by Switch and Interplay of Peptide Secondary Structures. Biomacromolecules, 2021, 22, 2563-2572.	5.4	9
5	Enzyme-instructed supramolecular assemblies promote intracellular boron accumulation for boron neutron capture therapy. Nanotechnology, 2021, 32, 435602.	2.6	2
6	Enzymatic non-covalent synthesis of supramolecular assemblies as a general platform for bioorthogonal prodrugs activation to combat drug resistance. Biomaterials, 2021, 277, 121119.	11.4	11
7	Isothermal kinase-triggered supramolecular assemblies as drug sensitizers. Chemical Science, 2020, 11, 1132-1139.	7.4	12
8	Enzyme-Regulated Peptide-Liquid Metal Hybrid Hydrogels as Cell Amber for Single-Cell Manipulation. ACS Applied Materials & Interfaces, 2020, 12, 45807-45813.	8.0	3
9	Supramolecular assemblies mimicking neutrophil extracellular traps for MRSE infection control. Biomaterials, 2020, 253, 120124.	11.4	22
10	Metal ions modulation of the self-assembly of short peptide conjugated nonsteroidal anti-inflammatory drugs (NSAIDs). Nanoscale, 2020, 12, 7960-7968.	5.6	17
11	Dynamic Detection of Active Enzyme Instructed Supramolecular Assemblies In Situ via Super-Resolution Microscopy. ACS Nano, 2020, 14, 4882-4889.	14.6	25
12	Increasing the Assembly Efficacy of Peptidic Î²-Sheets for a Highly-Sensitive HIV Detection. Analytical Chemistry, 2020, 92, 11089-11094.	6.5	6
13	Encoding Reversible Hierarchical Structures with Supramolecular Peptideâ€“DNA Materials. Bioconjugate Chemistry, 2019, 30, 1864-1869.	3.6	18
14	Molecular Design of Î²â€Sheet Peptide for the Multiâ€Modal Analysis of Disease. Angewandte Chemie, 2019, 131, 1640-1645.	2.0	2
15	Enzymeâ€Instructed Supramolecular Selfâ€Assembly with Anticancer Activity. Advanced Materials, 2019, 31, e1804814.	21.0	75
16	Molecular Design of Î²â€Sheet Peptide for the Multiâ€Modal Analysis of Disease. Angewandte Chemie - International Edition, 2019, 58, 1626-1631.	13.8	30
17	Enzyme-Instructed Self-assembly in Biological Milieu for Theranostics Purpose. Current Medicinal Chemistry, 2019, 26, 1351-1365.	2.4	6
18	Determination of the packing model of a supramolecular nanofiber via mass-per-length measurement and de novo simulation. Nanoscale, 2018, 10, 3990-3996.	5.6	2

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19	Enzyme-Instructed Self-assembly of Small Peptides In Vivo for Biomedical Application. Nanomedicine and Nanotoxicology, 2018, , 89-114.	0.2	1
20	Redox supramolecular self-assemblies nonlinearly enhance fluorescence to identify cancer cells. Chemical Communications, 2018, 54, 5385-5388.	4.1	37
21	Synergistic enzymatic and bioorthogonal reactions for selective prodrug activation in living systems. Nature Communications, 2018, 9, 5032.	12.8	141
22	Hydrogen sulfide induced supramolecular self-assembly in living cells. Chemical Communications, 2018, 54, 9051-9054.	4.1	16
23	pH Switchable Nanoassembly for Imaging a Broad Range of Malignant Tumors. ACS Nano, 2017, 11, 12446-12452.	14.6	42
24	Supramolecular Self-Assembly of a Model Hydrogelator: Characterization of Fiber Formation and Morphology. Gels, 2016, 2, 27.	4.5	9
25	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
26	Tumor-Specific Formation of Enzyme-Instructed Supramolecular Self-Assemblies as Cancer Theranostics. ACS Nano, 2015, 9, 9517-9527.	14.6	182
27	Morphology-controlled assembly and enhanced emission of fluorescence in organic nanospheres and microrods based on 1,2-diphenyl-4-(4-dibenzothienyl)phenyl-1,3-cyclopentadiene. CrystEngComm, 2015, 17, 9311-9317.	2.6	7
28	Using a peptide segment to covalently conjugate doxorubicin and taxol for the study of drug combination effect. RSC Advances, 2015, 5, 101475-101479.	3.6	10
29	Synthesis, molecular structure and photoluminescence properties of 1,2-diphenyl-4-(3-methoxyphenyl)-1,3-cyclopentadiene. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2015, 134, 22-27.	3.9	8
30	Supramolecular Self-Assembly Inside Living Mammalian Cells. Materials Research Society Symposia Proceedings, 2014, 1622, 85-93.	0.1	0
31	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
32	Prion-like Nanofibrils of Small Molecules (PriSM) Selectively Inhibit Cancer Cells by Impeding Cytoskeleton Dynamics. Journal of Biological Chemistry, 2014, 289, 29208-29218.	3.4	46
33	The first supramolecular peptidic hydrogelator containing taurine. Chemical Communications, 2014, 50, 2772-2774.	4.1	32
34	Oneâ€Step Stereoselective Synthesis of (2Z,4Z,6Z,8Z)â€Decatetraene Diketone from Pyrylium Salts. European Journal of Organic Chemistry, 2014, 2014, 515-522.	2.4	6
35	<scp>l</scp>-Rhamnose-containing supramolecular nanofibrils as potential immunosuppressive materials. Organic and Biomolecular Chemistry, 2014, 12, 6816.	2.8	25
36	Imaging Self-Assembly Dependent Spatial Distribution of Small Molecules in a Cellular Environment. Langmuir, 2013, 29, 15191-15200.	3.5	41

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37	A Redox Responsive, Fluorescent Supramolecular Metallohydrogel Consists of Nanofibers with Single-Molecule Width. Journal of the American Chemical Society, 2013, 135, 5008-5011.	13.7	151
38	<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
39	Selfâ€Delivery Multifunctional Antiâ€HIV Hydrogels for Sustained Release. Advanced Healthcare Materials, 2013, 2, 1586-1590.	7.6	60
40	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
41	Probing Nanoscale Self-Assembly of Nonfluorescent Small Molecules inside Live Mammalian Cells. ACS Nano, 2013, 7, 9055-9063.	14.6	69
42	The conjugation of nonsteroidal anti-inflammatory drugs (NSAID) to small peptides for generating multifunctional supramolecular nanofibers/hydrogels. Beilstein Journal of Organic Chemistry, 2013, 9, 908-917.	2.2	63
43	Evaluation of the effects of phenylalanine and carboxylate on the rheological behaviors of small molecule hydrogelators containing naphthalene. Materials Research Society Symposia Proceedings, 2012, 1418, 57.	0.1	0
44	Supramolecular hydrogels formed by the conjugates of nucleobases, Arg-Gly-Asp (RGD) peptides, and glucosamine. Soft Matter, 2012, 8, 7402.	2.7	42
45	Using supramolecular hydrogels to discover the interactions between proteins and molecular nanofibers of small molecules. Chemical Communications, 2012, 48, 8404.	4.1	49
46	Catalytic dephosphorylation of adenosine monophosphate (AMP) to form supramolecular nanofibers/hydrogels. Chemical Communications, 2012, 48, 2098.	4.1	34
47	Post-Self-Assembly Cross-Linking of Molecular Nanofibers for Oscillatory Hydrogels. Langmuir, 2012, 28, 3063-3066.	3.5	41
48	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
49	Imaging enzyme-triggered self-assembly of small molecules inside live cells. Nature Communications, 2012, 3, 1033.	12.8	411
50	Supramolecular hydrogels based on the epitope of potassium ion channels. Chemical Communications, 2011, 47, 8772.	4.1	31
51	Î²-Galactosidase-instructed formation of molecular nanofibers and a hydrogel. Nanoscale, 2011, 3, 2859.	5.6	34
52	Supramolecular hydrogelators of N-terminated dipeptides selectively inhibit cancer cells. Chemical Communications, 2011, 47, 12625.	4.1	39
53	Novel Anisotropic Supramolecular Hydrogel with High Stability over a Wide pH Range. Langmuir, 2011, 27, 1510-1512.	3.5	72
54	Versatile Small-Molecule Motifs for Self-Assembly in Water and the Formation of Biofunctional Supramolecular Hydrogels. Langmuir, 2011, 27, 529-537.	3.5	203

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55	A versatile supramolecular hydrogel of nitrilotriacetic acid (NTA) for binding metal ions and magnetorheological response. Journal of Materials Chemistry, 2011, 21, 6804.	6.7	47
56	Multifunctional, Biocompatible Supramolecular Hydrogelators Consist Only of Nucleobase, Amino Acid, and Glycoside. Journal of the American Chemical Society, 2011, 133, 17513-17518.	13.7	115
57	Calcium Ions to Cross-Link Supramolecular Nanofibers to Tune the Elasticity of Hydrogels over Orders of Magnitude. Langmuir, 2011, 27, 14425-14431.	3.5	56
58	Coreâ€“shell NaYF4:Yb3+,Tm3+@FexOy nanocrystals for dual-modality T2-enhanced magnetic resonance and NIR-to-NIR upconversion luminescent imaging of small-animal lymphatic node. Biomaterials, 2011, 32, 7200-7208.	11.4	196
59	Exceptionally small supramolecular hydrogelators based on aromaticâ€“aromatic interactions. Beilstein Journal of Organic Chemistry, 2011, 7, 167-172.	2.2	94
60	Supramolecular Nanofibers and Hydrogels of Nucleopeptides. Angewandte Chemie - International Edition, 2011, 50, 9365-9369.	13.8	133
61	Enzymeâ€instructed selfâ€assembly of peptide derivatives to form nanofibers and hydrogels. Biopolymers, 2010, 94, 19-31.	2.4	99
62	Aromaticâ^'Aromatic Interactions Induce the Self-Assembly of Pentapeptidic Derivatives in Water To Form Nanofibers and Supramolecular Hydrogels. Journal of the American Chemical Society, 2010, 132, 2719-2728.	13.7	328
63	Molecular Nanofibers of Olsalazine Form Supramolecular Hydrogels for Reductive Release of an Anti-inflammatory Agent. Journal of the American Chemical Society, 2010, 132, 17707-17709.	13.7	165
64	Small peptide nanofibers as the matrices of molecular hydrogels for mimicking enzymes and enhancing the activity of enzymes. Chemical Society Reviews, 2010, 39, 3425.	38.1	242
65	Enzymatic formation of a photoresponsive supramolecular hydrogel. Chemical Communications, 2010, 46, 5364.	4.1	99
66	Supramolecular Hydrogel of a <scp>d</scp>-Amino Acid Dipeptide for Controlled Drug Release in Vivo. Langmuir, 2009, 25, 8419-8422.	3.5	257
67	Enzyme-Instructed Molecular Self-assembly Confers Nanofibers and a Supramolecular Hydrogel of Taxol Derivative. Journal of the American Chemical Society, 2009, 131, 13576-13577.	13.7	373
68	Enzymatic hydrogelation to immobilize an enzyme for high activity and stability. Soft Matter, 2008, 4, 550.	2.7	106
69	Fluorescent Magnetic Nanocrystals by Sequential Addition of Reagents in a One-Pot Reaction:â€‰ A Simple Preparation for Multifunctional Nanostructures. Journal of the American Chemical Society, 2007, 129, 11928-11935.	13.7	168
70	Conjugates of naphthalene and dipeptides produce molecular hydrogelators with high efficiency of hydrogelation and superhelical nanofibers. Journal of Materials Chemistry, 2007, 17, 850-854.	6.7	192
71	Inâ€…Vitro and Inâ€…Vivo Enzymatic Formation of Supramolecular Hydrogels Based on Self-Assembled Nanofibers of a Î²-Amino Acid Derivative. Small, 2007, 3, 558-562.	10.0	144