

Simin Liu

List of Publications by Year in descending order

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79
papers

3,704
citations

257450

24
h-index

128289

60
g-index

84
all docs

84
docs citations

84
times ranked

2927
citing authors

#	ARTICLE	IF	CITATIONS
1	The Cucurbit[n]uril Family: Prime Components for Self-Sorting Systems. <i>Journal of the American Chemical Society</i> , 2005, 127, 15959-15967.	13.7	786
2	A synthetic host-guest system achieves avidin-biotin affinity by overcoming enthalpy-entropy compensation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 20737-20742.	7.1	534
3	Cucurbit[10]uril. <i>Journal of the American Chemical Society</i> , 2005, 127, 16798-16799.	13.7	298
4	Nor-Seco-Cucurbit[10]uril Exhibits Homotropic Allostereism. <i>Journal of the American Chemical Society</i> , 2006, 128, 14744-14745.	13.7	167
5	The Inverted Cucurbit[n]uril Family. <i>Journal of the American Chemical Society</i> , 2005, 127, 18000-18001.	13.7	162
6	High-definition self-assemblies driven by the hydrophobic effect: synthesis and properties of a supramolecular nanocapsule. <i>Chemical Communications</i> , 2008, , 3709.	4.1	125
7	Kinetic resolution of constitutional isomers controlled by selective protection inside a supramolecular nanocapsule. <i>Nature Chemistry</i> , 2010, 2, 847-852.	13.6	114
8	Ternary Complexes Comprising Cucurbit[10]uril, Porphyrins, and Guests. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 2657-2660.	13.8	97
9	Guest Packing Motifs within a Supramolecular Nanocapsule and a Covalent Analogue. <i>Journal of the American Chemical Society</i> , 2013, 135, 4314-4324.	13.7	86
10	A Comparison Reduction of 4-Nitrophenol by Gold Nanospheres and Gold Nanostars. <i>Catalysts</i> , 2017, 7, 38.	3.5	82
11	Dendronized Supramolecular Nanocapsules: pH Independent, Water-Soluble, Deep-Cavity Cavitands Assemble via the Hydrophobic Effect. <i>Journal of the American Chemical Society</i> , 2008, 130, 14430-14431.	13.7	68
12	Refolding Foldamers: Triazene-Arylene Oligomers That Change Shape with Chemical Stimuli. <i>Journal of the American Chemical Society</i> , 2007, 129, 11232-11241.	13.7	58
13	Synthesis of Au-Pd Bimetallic Nanoflowers for Catalytic Reduction of 4-Nitrophenol. <i>Nanomaterials</i> , 2017, 7, 239.	4.1	58
14	Cucurbit[10]uril-based chemistry. <i>Chinese Chemical Letters</i> , 2018, 29, 1560-1566.	9.0	56
15	Cucurbit[10]uril-Based [2]Rotaxane: Preparation and Supramolecular Assembly-Induced Fluorescence Enhancement. <i>Journal of Organic Chemistry</i> , 2017, 82, 5590-5596.	3.2	53
16	From Packed "Sandwich" to "Russian Doll" Assembly by Charge Transfer Interactions in Cucurbit[10]uril. <i>Chemistry - A European Journal</i> , 2016, 22, 17612-17618.	3.3	50
17	Mechanism of the Conversion of Inverted CB[6] to CB[6]. <i>Journal of Organic Chemistry</i> , 2007, 72, 6840-6847.	3.2	40
18	Near Infrared Light Triggered Cucurbit[7]uril-Stabilized Gold Nanostars as a Supramolecular Nanoplatform for Combination Treatment of Cancer. <i>Bioconjugate Chemistry</i> , 2018, 29, 2855-2866.	3.6	34

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19	An improved synthesis of β -octa-acid™ deep-cavity cavitand. <i>Supramolecular Chemistry</i> , 2011, 23, 480-485.	1.2	31
20	Expected and unexpected photoreactions of 9-(10)-substituted anthracene derivatives in cucurbit[<i>n</i>]uril hosts. <i>Chemical Science</i> , 2020, 11, 4779-4785.	7.4	30
21	Conical nanofluidic channel for selective quantitation of melamine in combination with β -cyclodextrin and a single-walled carbon nanotube. <i>Biosensors and Bioelectronics</i> , 2019, 127, 200-206.	10.1	28
22	Kinetically Dependent Self-Assembly of Chiral Block Copolymers under 3D Confinement. <i>Macromolecules</i> , 2020, 53, 4214-4223.	4.8	28
23	Enhancement of metal-metal interactions inside a large-cavity synthetic host in water. <i>Chemical Communications</i> , 2018, 54, 2169-2172.	4.1	26
24	Cucurbituril mediated single molecule detection and identification via recognition tunneling. <i>Nanotechnology</i> , 2018, 29, 365501.	2.6	26
25	Effects of cucurbit[<i>n</i>]uril (<i>n</i> = 7, 8, 10) hosts on the formation and stabilization of a naphthalenediimide (NDI) radical anion. <i>Organic and Biomolecular Chemistry</i> , 2018, 16, 3809-3815.	2.8	25
26	Supramolecular Controlled Cargo Release via Near Infrared Tunable Cucurbit[7]uril-Gold Nanostars. <i>Scientific Reports</i> , 2016, 6, 22239.	3.3	24
27	Rotaxanating Metallo-supramolecular Nano-cylinder Helicates to Switch DNA Junction Binding. <i>Journal of the American Chemical Society</i> , 2020, 142, 20651-20660.	13.7	24
28	Inhibition and Stabilization: Cucurbituril Induced Distinct Effects on the Schiff Base Reaction. <i>Journal of Organic Chemistry</i> , 2017, 82, 3298-3301.	3.2	23
29	A versatile and modular approach to functionalisation of deep-cavity cavitands via click chemistry. <i>Chemical Communications</i> , 2011, 47, 9036.	4.1	20
30	Preparation of Rh/Ni Bimetallic Nanoparticles and Their Catalytic Activities for Hydrogen Generation from Hydrolysis of KBH ₄ . <i>Catalysts</i> , 2017, 7, 125.	3.5	20
31	Solvent denaturation of supramolecular capsules assembled via the hydrophobic effect. <i>Chemical Communications</i> , 2011, 47, 3574.	4.1	18
32	Controllable Synthesis and Catalytic Performance of Gold Nanoparticles with Cucurbit[<i>n</i>]urils (<i>n</i> = 7, 8, 10). <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2018, 90, 107-115.	4.1	18
33	Probing guest compounds enabling the facile isolation of cucurbit[10]uril. <i>Science China Chemistry</i> , 2018, 61, 787-791.	8.2	18
34	Nanochannel sensor for sensitive and selective adamantanamine detection based on host-guest competition. <i>Talanta</i> , 2020, 219, 121213.	5.5	18
35	Construction of Pseudorotaxanes and Rotaxanes Based on Cucurbit[<i>n</i>]uril. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2004, 50, 203-207.	1.6	17
36	Low temperature synthesis of LiSi ₂ N ₃ nanobelts via molten salt nitridation and their photoluminescence properties. <i>RSC Advances</i> , 2016, 6, 68615-68618.	3.6	17

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37	Modular Design of Supramolecular Organic Frameworks for Image-Guided Photodynamic Therapy. <i>Advanced Functional Materials</i> , 2020, 30, 2004452.	14.9	17
38	Host-guest interaction-mediated fabrication of a hybrid microsphere-structured supramolecular hydrogel showing high mechanical strength. <i>Soft Matter</i> , 2020, 16, 3416-3424.	2.7	17
39	Amphiphilic DNA Organic Hybrids: Functional Materials in Nanoscience and Potential Application in Biomedicine. <i>International Journal of Molecular Sciences</i> , 2018, 19, 2283.	4.1	16
40	Observing dynamic molecular changes at single-molecule level in a cucurbituril based plasmonic molecular junction. <i>Nanoscale</i> , 2020, 12, 17103-17112.	5.6	16
41	Tunable White-Light Emissions of Azapyrene Derivatives with Cucurbit[7]uril Hosts in Aqueous Solution. <i>Organic Letters</i> , 2021, 23, 6633-6637.	4.6	16
42	In situ Immobilization of Copper Nanoparticles on Polydopamine Coated Graphene Oxide for H ₂ O ₂ Determination. <i>PLoS ONE</i> , 2016, 11, e0157926.	2.5	15
43	Preparation of Rh/Ag bimetallic nanoparticles as effective catalyst for hydrogen generation from hydrolysis of KBH ₄ . <i>Nanotechnology</i> , 2018, 29, 044002.	2.6	15
44	Reliably Probing the Conductance of a Molecule in a Cavity via van der Waals Contacts. <i>Journal of Physical Chemistry C</i> , 2020, 124, 16143-16148.	3.1	15
45	Triple Stack of a Viologen Derivative in a CB[10] Pair. <i>Organic Letters</i> , 2021, 23, 5283-5287.	4.6	15
46	Dynamic Interconversions of Single Molecules Probed by Recognition Tunneling at Cucurbit[7]uril-Functionalized Supramolecular Junctions. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	15
47	A Highly Selective and Strong Anti-Interference Host-Guest Complex as Fluorescent Probe for Detection of Amantadine by Indicator Displacement Assay. <i>Molecules</i> , 2018, 23, 947.	3.8	13
48	Self-healing and high reusability of Au nanoparticles catalyst based on supramolecular hydrogel. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 583, 123954.	4.7	13
49	Reversible morphological tuning of DNA-terylenebisdiimide assemblies through host-guest interaction. <i>Chemical Communications</i> , 2019, 55, 3658-3661.	4.1	13
50	Red aqueous room-temperature phosphorescence modulated by anion and intermolecular electronic coupling interactions. <i>Chemical Science</i> , 2022, 13, 7247-7255.	7.4	13
51	Regulating Host-Guest Interactions between Cucurbit[7]uril and Guests on Gold Surfaces for Rational Engineering of Gold Nanoparticles. <i>ACS Applied Nano Materials</i> , 2020, 3, 4283-4291.	5.0	12
52	Matrix-assisted laser desorption/ionization mass spectrometry for the analysis of polyamines in plant micro-tissues using cucurbituril as a host molecule. <i>Analytica Chimica Acta</i> , 2017, 987, 56-63.	5.4	11
53	Self-Assembly of Supramolecular DNA Amphiphiles through Host-Guest Interaction and Their Stimuli-Responsiveness. <i>Macromolecular Rapid Communications</i> , 2020, 41, e2000022.	3.9	11
54	Low-Cost Nanocarbon-Based Peroxidases from Graphite and Carbon Fibers. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 924.	2.5	10

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55	Host-guest interaction-mediated fabrication of aggregation-induced emission supramolecular hydrogel for use as aqueous light-harvesting systems. <i>Supramolecular Chemistry</i> , 2020, 32, 445-451.	1.2	10
56	Achieving Enhanced Photochromic Properties of Diarylethene through Host-Guest Interaction in Aqueous Solution. <i>Chemistry - A European Journal</i> , 2021, 27, 16153-16160.	3.3	10
57	Host-guest interaction-directed strategy for managing mechanochromic luminescence behavior by modulating molecular packing and conformation. <i>Journal of Materials Chemistry C</i> , 2021, 9, 17307-17312.	5.5	10
58	Doubly, Triply and Multiply Pleated Sheets of Bipyridinium Radical Cation-Incorporated Polymers Tuned by Four Cucurbiturils. <i>ChemistrySelect</i> , 2016, 1, 6792-6796.	1.5	9
59	J-type dimer of Auramine O dye upon encapsulation in cucurbit[8]uril host showing intense excimer emission. <i>Dyes and Pigments</i> , 2018, 159, 331-336.	3.7	9
60	Cucurbit[n]uril (n = 6, 7) Based Carbon-Gold Hybrids with Peroxidase-Like Activity. <i>Nanomaterials</i> , 2018, 8, 273.	4.1	8
61	EPR Spectroscopy: A Powerful Tool to Analyze Supramolecular Host-Guest Complexes of Stable Radicals with Cucurbiturils. <i>Molecules</i> , 2020, 25, 776.	3.8	8
62	Facile synthesis of novel macrocyclic polyamines derived from diphenylglycoluril Electronic supplementary information (ESI) available: ESI mass spectra of 5a, 6, alone and with added Ni(CH ₃ COO) ₂ , and 7. See http://www.rsc.org/suppdata/nj/b4/b400123k/ . <i>New Journal of Chemistry</i> , 2004, 28, 562.	2.8	7
63	Self-assembly of DNA-based Nanomaterials and Potential Application in Drug Delivery. <i>Current Topics in Medicinal Chemistry</i> , 2017, 17, 1829-1842.	2.1	7
64	Divergent Dendronization of Deep-Cavity Cavitands to Tune Host Solubility. <i>Israel Journal of Chemistry</i> , 2009, 49, 31-40.	2.3	6
65	A study of binding interactions between terpyridine derivatives and cucurbit[10]uril. <i>Supramolecular Chemistry</i> , 2018, 30, 706-712.	1.2	6
66	Emission enhancement of cationic tetraphenylethylene derivatives by encapsulation in a cucurbit[10]uril host in water. <i>New Journal of Chemistry</i> , 2020, 44, 3185-3188.	2.8	6
67	Evidenced cucurbit[n]uril-based host-guest interactions using single-molecule force spectroscopy. <i>Chemical Communications</i> , 2022, 58, 1736-1739.	4.1	6
68	Supramolecular CRISPR-OFF switches with host-guest chemistry. <i>Nucleic Acids Research</i> , 2022, 50, 1241-1255.	14.5	6
69	A matrix-assisted laser desorption/ionization mass spectrometry method for the analysis of small molecules by integrating chemical labeling with the supramolecular chemistry of cucurbituril. <i>Analytica Chimica Acta</i> , 2018, 1026, 77-86.	5.4	5
70	Cucurbit[n]uril-based host-guest interaction enhancing organic room-temperature phosphorescence of phthalic anhydride derivatives in aqueous solution. <i>New Journal of Chemistry</i> , 2022, 46, 11025-11029.	2.8	5
71	Fabrication, characterization and adsorption properties of cucurbit[7]uril-functionalized polycaprolactone electrospun nanofibrous membranes. <i>Beilstein Journal of Organic Chemistry</i> , 2019, 15, 992-999.	2.2	4
72	Dynamic Interconversions of Single Molecules Probed by Recognition Tunneling at Cucurbit[7]uril-Functionalized Supramolecular Junctions. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	4

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73	Facile synthesis of 1.3Ånm monodispersed Ag nanoclusters in an aqueous solution and their antibacterial activities for E. coli. RSC Advances, 2018, 8, 30207-30214.	3.6	3
74	Nanocollision mediated electrochemical sensing of host-guest chemistry at a nanoelectrode surface. Faraday Discussions, 2021, 233, 222-231.	3.2	3
75	From Packed "Sandwich" to "Russian Doll" Assembly by Charge-Transfer Interactions in Cucurbit[10]uril. Chemistry - A European Journal, 2016, 22, 17493-17493.	3.3	2
76	Biological Systems Involving Cucurbituril. , 2020, , 731-757.		1
77	Photodimerization of azaanthracene derivatives mediated by cucurbit[10]uril. Chinese Chemical Letters, 2022, , .	9.0	1
78	Biological Systems Involving Cucurbituril. , 2019, , 1-28.		0
79	Cucurbit[10]urils Based Supramolecular Catalysis. Series on Chemistry, Energy and the Environment, 2020, , 149-192.	0.3	0