Wei Jiang

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/1285017/publications.pdf

Version: 2024-02-01

113 papers	4,975 citations	94433 37 h-index	98798 67 g-index
116 all docs	116 docs citations	116 times ranked	4337 citing authors

#	Article	IF	Citations
1	Integrative self-sorting: a versatile strategy for the construction of complex supramolecular architecture. Chemical Society Reviews, 2015, 44, 779-789.	38.1	350
2	3D Printable Graphene Composite. Scientific Reports, 2015, 5, 11181.	3.3	337
3	Integrative Self-Sorting: Construction of a Cascade-Stoppered Hetero[3]rotaxane. Journal of the American Chemical Society, 2008, 130, 13852-13853.	13.7	238
4	Monitoring Self-Sorting by Electrospray Ionization Mass Spectrometry: Formation Intermediates and Error-Correction during the Self-Assembly of Multiply Threaded Pseudorotaxanes. Journal of the American Chemical Society, 2010, 132, 2309-2320.	13.7	197
5	Integrative self-sorting is a programming language for high level self-assembly. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 10425-10429.	7.1	169
6	Shear-induced assembly of a transient yet highly stretchable hydrogel based on pseudopolyrotaxanes. Nature Chemistry, 2019, 11, 470-477.	13.6	161
7	Naphthotubes: Macrocyclic Hosts with a Biomimetic Cavity Feature. Accounts of Chemical Research, 2020, 53, 198-208.	15.6	148
8	Molecular Recognition of Hydrophilic Molecules in Water by Combining the Hydrophobic Effect with Hydrogen Bonding. Journal of the American Chemical Society, 2018, 140, 13466-13477.	13.7	130
9	Systems chemistry: logic gates based on the stimuli-responsive gelâ€“sol transition of a crown ether-functionalized bis(urea) gelator. Chemical Science, 2012, 3, 2073.	7.4	127
10	Molecular Recognition and Chirality Sensing of Epoxides in Water Using Endo-Functionalized Molecular Tubes. Journal of the American Chemical Society, 2017, 139, 8436-8439.	13.7	127
11	Selective Recognition of Highly Hydrophilic Molecules in Water by Endo-Functionalized Molecular Tubes. Journal of the American Chemical Society, 2016, 138, 14550-14553.	13.7	126
12	Oxatub[4]arene: a smart macrocyclic receptor with multiple interconvertible cavities. Chemical Science, 2015, 6, 6731-6738.	7.4	111
13	A Multiscale Coarse-Graining Study of the Liquid/Vacuum Interface of Room-Temperature Ionic Liquids with Alkyl Substituents of Different Lengths. Journal of Physical Chemistry C, 2008, 112, 1132-1139.	3.1	105
14	Chelate Cooperativity and Spacer Length Effects on the Assembly Thermodynamics and Kinetics of Divalent Pseudorotaxanes. Journal of the American Chemical Society, 2012, 134, 1860-1868.	13.7	99
15	The construction of complex multicomponent supramolecular systems via the combination of orthogonal self-assembly and the self-sorting approach. Chemical Science, 2014, 5, 4554-4560.	7.4	91
16	A Multifunctional Arithmetical Processor Model Integrated Inside a Single Molecule. Journal of Physical Chemistry B, 2006, 110, 14231-14235.	2.6	79
17	Selfâ€Sorting of Waterâ€Soluble Cucurbituril Pseudorotaxanes. Chemistry - A European Journal, 2011, 17, 2344-2348.	3.3	79
18	Chemical and Bandgap Engineering in Monolayer Hexagonal Boron Nitride. Scientific Reports, 2017, 7, 45584.	3.3	73

#	Article	IF	Citations
19	Conformationally adaptive macrocycles with flipping aromatic sidewalls. Chemical Society Reviews, 2020, 49, 4176-4188.	38.1	73
20	A Proton-Triggered ONâ"OFFâ"ON Fluorescent Chemosensor for Mg(II) via Twisted Intramolecular Charge Transfer. Organic Letters, 2008, 10, 2873-2876.	4.6	66
21	The PIK3CA E542K and E545K mutations promote glycolysis and proliferation via induction of the Î²-catenin/SIRT3 signaling pathway in cervical cancer. Journal of Hematology and Oncology, 2018, 11, 139.	17.0	65
22	Adsorptive Separation of Benzene, Cyclohexene, and Cyclohexane by Amorphous Nonporous Amide Naphthotube Solids. Angewandte Chemie - International Edition, 2020, 59, 19945-19950.	13.8	60
23	Achieving Strong Positive Cooperativity through Activating Weak Nonâ€Covalent Interactions. Angewandte Chemie - International Edition, 2018, 57, 709-713.	13.8	58
24	Directional Shuttling of a Stimuliâ€Responsive Coneâ€Like Macrocycle on a Singleâ€State Symmetric Dumbbell Axle. Angewandte Chemie - International Edition, 2018, 57, 7809-7814.	13.8	56
25	Enantioselective Recognition of Neutral Molecules in Water by a Pair of Chiral Biomimetic Macrocyclic Receptors. CCS Chemistry, 2020, 2, 440-452.	7.8	56
26	[4]Pseudorotaxanes with Remarkable Self-Sorting Selectivities. Organic Letters, 2011, 13, 4502-4505.	4.6	55
27	Alkane Lengths Determine Encapsulation Rates and Equilibria. Journal of the American Chemical Society, 2012, 134, 8070-8073.	13.7	54
28	Naphthocage: A Flexible yet Extremely Strong Binder for Singly Charged Organic Cations. Journal of the American Chemical Society, 2019, 141, 4468-4473.	13.7	53
29	Imine Macrocycle with a Deep Cavity: Guestâ€Selected Formation of syn/anti Configuration and Guestâ€Controlled Reconfiguration. Chemistry - A European Journal, 2015, 21, 3005-3012.	3.3	51
30	A Double Plugâ€"Socket System Capable of Molecular Keypad Locks through Controllable Photooxidation. Chemistry - A European Journal, 2009, 15, 9938-9945.	3.3	49
31	Biomimetic Recognition and Optical Sensing of Carboxylic Acids in Water by Using a Buried Salt Bridge and the Hydrophobic Effect. Angewandte Chemie - International Edition, 2021, 60, 1929-1935.	13.8	48
32	Comprehensive analysis of targetable oncogenic mutations in chinese cervical cancers. Oncotarget, 2015, 6, 4968-4975.	1.8	44
33	A Green and Wideâ€Scope Approach for Chiroptical Sensing of Organic Molecules through Biomimetic Recognition in Water. Angewandte Chemie - International Edition, 2020, 59, 23817-23824.	13.8	43
34	A supramolecular system that strictly follows the binding mechanism of conformational selection. Nature Communications, 2020, 11, 2740.	12.8	42
35	Effective and Rapid Removal of Polar Organic Micropollutants from Water by Amide Naphthotubeâ€Crosslinked Polymers. Angewandte Chemie - International Edition, 2021, 60, 21404-21411.	13.8	42
36	Oxatub[4]arene: a molecular â€œtransformerâ€•capable of hosting a wide range of organic cations. Chemical Communications, 2016, 52, 5666-5669.	4.1	41

#	Article	IF	Citations
37	Light-Controlled Switching of a Non-photoresponsive Molecular Shuttle. Organic Letters, 2017, 19, 2945-2948.	4.6	40
38	Biomimetic Recognition of Organic Drug Molecules in Water by Amide Naphthotubes. CCS Chemistry, 2021, 3, 1078-1092.	7.8	40
39	Naphthol-based macrocyclic receptors. Tetrahedron Letters, 2016, 57, 3978-3985.	1.4	38
40	Synthesis, Solid-State Structures, and Molecular Recognition of Chiral Molecular Tweezer and Related Structures Based on a Rigid Bis-Naphthalene Cleft. Organic Letters, 2015, 17, 3880-3883.	4.6	36
41	endo-Functionalized molecular tubes: selective encapsulation of neutral molecules in non-polar media. Chemical Communications, 2016, 52, 9078-9081.	4.1	36
42	PIK3CA mutation analysis in Chinese patients with surgically resected cervical cancer. Scientific Reports, 2015, 5, 14035.	3.3	35
43	Redox-Responsive Hostâ€“Guest Chemistry of a Flexible Cage with Naphthalene Walls. Journal of the American Chemical Society, 2020, 142, 3306-3310.	13.7	35
44	Bis-urea macrocycles with a deep cavity. Chemical Communications, 2015, 51, 15490-15493.	4.1	34
45	Selective recognition of aromatic hydrocarbons by endo-functionalized molecular tubes via C/N-Hâ‹…â‹…â‹… Ï€ interactions. Chinese Chemical Letters, 2018, 29, 91-94.	9.0	32
46	Biomimetic Synchronized Motion of Two Interacting Macrocycles in [3]Rotaxaneâ€Based Molecular Shuttles. Angewandte Chemie - International Edition, 2019, 58, 15136-15141.	13.8	32
47	Tandem mass spectrometry for the analysis of selfâ€sorted pseudorotaxanes: the effects of Coulomb interactions. Journal of Mass Spectrometry, 2010, 45, 788-798.	1.6	30
48	Guest-Induced, Selective Formation of Isomeric Capsules with Imperfect Walls. Journal of the American Chemical Society, 2012, 134, 17498-17501.	13.7	30
49	Oxatub[5,6]arene: synthesis, conformational analysis, and the recognition of C60 and C70. Chemical Communications, 2017, 53, 336-339.	4.1	30
50	Circular Dichroism Based Chirality Sensing with Supramolecular Hostâ€“Guest Chemistry. Angewandte Chemie - International Edition, 2022, 61, .	13.8	29
51	H2S-Responsive Lower Critical Solution Temperature of the Hostâ€“Guest Complex Based on Oxatub[4]arene with Tri(ethylene oxide) Moieties. Organic Letters, 2017, 19, 1212-1215.	4.6	28
52	ERBB2 mutation: A promising target in non-squamous cervical cancer. Gynecologic Oncology, 2018, 148, 311-316.	1.4	27
53	Biomimetic Recognition-Based Bioorthogonal Hostâ€“Guest Pairs for Cell Targeting and Tissue Imaging in Living Animals. CCS Chemistry, 2022, 4, 1977-1989.	7.8	26
54	Complexes within complexes: hydrogen bonding in capsules. Chemical Science, 2012, 3, 3022.	7.4	25

#	Article	IF	Citations
55	Mutational analysis ofKRASand its clinical implications in cervical cancer patients. Journal of Gynecologic Oncology, 2018, 29, e4.	2.2	25
56	Unimolecular half-adders and half-subtractors based on acid-base reaction. Frontiers of Chemistry in China: Selected Publications From Chinese Universities, 2009, 4, 292-298.	0.4	24
57	A phase-selective, bis-urea organogelator with a curved bis-naphthalene core. Chinese Chemical Letters, 2017, 28, 782-786.	9.0	24
58	Achieving Strong Positive Cooperativity through Activating Weak Nonâ€Covalent Interactions. Angewandte Chemie, 2018, 130, 717-721.	2.0	24
59	Molecular recognition and fluorescent sensing of urethane in water. Chinese Chemical Letters, 2019, 30, 881-884.	9.0	24
60	Biomimetic Recognition of Quinones in Water by an Endoâ€Functionalized Cavity with Anthracene Sidewalls. Angewandte Chemie - International Edition, 2021, 60, 25981-25987.	13.8	24
61	Molecular recognition of organophosphorus compounds in water and inhibition of their toxicity to acetylcholinesterase. Chemical Communications, 2019, 55, 9797-9800.	4.1	23
62	Prismarene: An Emerging Naphtholâ€Based Macrocyclic Arene. Angewandte Chemie - International Edition, 2020, 59, 15794-15796.	13.8	23
63	Templated versus non-templated synthesis of benzo-21-crown-7 and the influence of substituents on its complexing properties. Beilstein Journal of Organic Chemistry, 2010, 6, 14.	2.2	21
64	A Green and Wideâ€Scope Approach for Chiroptical Sensing of Organic Molecules through Biomimetic Recognition in Water. Angewandte Chemie, 2020, 132, 24025-24032.	2.0	21
65	Mono-functionalized derivatives and revised configurational assignment of amide naphthotubes. Organic and Biomolecular Chemistry, 2020, 18, 1900-1909.	2.8	21
66	Directional Shuttling of a Stimuliâ€Responsive Coneâ€Like Macrocycle on a Singleâ€State Symmetric Dumbbell Axle. Angewandte Chemie, 2018, 130, 7935-7940.	2.0	20
67	Selective Recognition of Phenazine by 2,6â€Dibutoxylnaphthaleneâ€Based Tetralactam Macrocycle. Chinese Journal of Chemistry, 2019, 37, 892-896.	4.9	20
68	Potentiometric determination of the neurotransmitter acetylcholine with ion-selective electrodes containing oxatub[4]arenes as the ionophore. Sensors and Actuators B: Chemical, 2021, 326, 128836.	7.8	20
69	Guestâ€Induced Folding and Selfâ€Assembly of Conformationally Adaptive Macrocycles into Nanosheets and Nanotubes. Chemistry - A European Journal, 2017, 23, 1516-1520.	3.3	19
70	Fluorescent monitoring of the reaction kinetics of nonfluorescent molecules enabled by a fluorescent receptor. Chemical Communications, 2019, 55, 3128-3131.	4.1	19
71	Switchable bifunctional molecular recognition in water using a pH-responsive Endo-functionalized cavity. Nature Communications, 2022, 13, 2291.	12.8	19
72	Allosteric cooperativity in ternary complexes with low symmetry. Chemical Communications, 2018, 54, 7677-7680.	4.1	17

#	Article	IF	Citations
73	Phytochemical and biological studies on rare and endangered plants endemic to China. Part XIV. Structurally diverse terpenoids from the twigs and needles of the endangered plant. Phytochemistry, 2020, 169, 112161.	2.9	17
74	Biomimetic Synchronized Motion of Two Interacting Macrocycles in [3]Rotaxaneâ€Based Molecular Shuttles. Angewandte Chemie, 2019, 131, 15280-15285.	2.0	16
75	Electronic Substituent Effects of Guests on the Conformational Network and Binding Behavior of Oxatub[4]arene. Journal of Organic Chemistry, 2017, 82, 10444-10449.	3.2	15
76	Fluorescence detected circular dichroism (FDCD) for supramolecular hostâ€“guest complexes. Chemical Science, 2021, 12, 9420-9431.	7.4	15
77	Biomimetic Recognition and Optical Sensing of Carboxylic Acids in Water by Using a Buried Salt Bridge and the Hydrophobic Effect. Angewandte Chemie, 2021, 133, 1957-1963.	2.0	14
78	Regioselective Synthesis of Methylene-Bridged Naphthalene Oligomers and Their Hostâ€“Guest Chemistry. Journal of Organic Chemistry, 2017, 82, 9570-9575.	3.2	13
79	2,3-Dibutoxynaphthalene-based tetralactam macrocycles for recognizing precious metal chloride complexes. Beilstein Journal of Organic Chemistry, 2019, 15, 1460-1467.	2.2	13
80	Molecular recognition and photoprotection of riboflavin in water by a biomimetic host. Chemical Communications, 2021, 57, 13724-13727.	4.1	12
81	Bisâ€Naphthalene Cleft with Aggregationâ€Induced Emission Properties through Loneâ€Pairâ‹…â‹…â‹…Ïâ€ Interactions. Chemistry - A European Journal, 2018, 24, 16757-16761.	3.3	11
82	A 2,3-dialkoxynaphthalene-based naphthocage. Chemical Communications, 2020, 56, 888-891.	4.1	11
83	Encapsulated hydrogen-bonded dimers of amide and carboxylic acid. Chemical Physics Letters, 2012, 548, 55-59.	2.6	10
84	Targeting of Î²-Catenin Reverses Radioresistance of Cervical Cancer with the PIK3CA-E545K Mutation. Molecular Cancer Therapeutics, 2020, 19, 337-347.	4.1	10
85	Effects of side chains of oxatub[4]arene on its conformational interconversion, molecular recognition and macroscopic self-assembly. Chemical Communications, 2017, 53, 12572-12575.	4.1	9
86	Temperature-induced large amplitude conformational change in the complex of oxatub[4]arene revealed via rotaxane synthesis. Organic Chemistry Frontiers, 2019, 6, 1027-1031.	4.5	9
87	Integrative genomic and transcriptomic analysis reveals immune subtypes and prognostic markers in ovarian clear cell carcinoma. British Journal of Cancer, 2022, 126, 1215-1223.	6.4	9
88	Circular Dichroism Based Chirality Sensing with Supramolecular Hostâ€“Guest Chemistry. Angewandte Chemie, 2022, 134, .	2.0	9
89	Adsorptive Separation of Benzene, Cyclohexene, and Cyclohexane by Amorphous Nonporous Amide Naphthotube Solids. Angewandte Chemie, 2020, 132, 20117-20122.	2.0	8
90	A conformationally adaptive macrocycle: conformational complexity and hostâ€“guest chemistry of zorb[4]arene. Beilstein Journal of Organic Chemistry, 2018, 14, 1570-1577.	2.2	7

#	Article	IF	Citations
91	Probing the guest-binding preference of three structurally similar and conformationally adaptive macrocycles. Chemical Communications, 2019, 55, 7768-7771.	4.1	7
92	Effective and Rapid Removal of Polar Organic Micropollutants from Water by Amide Naphthotubeâ€Crosslinked Polymers. Angewandte Chemie, 2021, 133, 21574-21581.	2.0	7
93	Biomimetic Recognition of Quinones in Water by an Endoâ€Functionalized Cavity with Anthracene Sidewalls. Angewandte Chemie, 0, , .	2.0	7
94	Synthesis of Bis-naphthalene and Their Derivatives and Their Complexation with Organic Cation. Chinese Journal of Organic Chemistry, 2017, 37, 603.	1.3	7
95	The influence of imperfect walls on the guest binding properties of hydrogen-bonded capsules. Chemical Communications, 2015, 51, 15276-15279.	4.1	6
96	Naphthobox: a selective molecular box for planar aromatic cations. Organic Chemistry Frontiers, 2021, 8, 5265-5270.	4.5	6
97	Selective recognition of methyl viologen by an endo-functionalized naphthobox. Chinese Chemical Letters, 2022, 33, 4896-4899.	9.0	6
98	Stabilization of Imines and Hemiaminals in Water by an Endoâ€Functionalized Container Molecule. Angewandte Chemie - International Edition, 2022, 61, .	13.8	6
99	Self-assembly of two-dimensional structures in water from rigid and curved amphiphiles with a low molecular weight. Chemical Communications, 2018, 54, 10847-10850.	4.1	5
100	Establishment and molecular characterization of a human ovarian clear cell carcinoma cell line (FDOV1). Journal of Ovarian Research, 2018, 11, 58.	3.0	5
101	Unexpected solvent effect on the binding of positively-charged macrocycles to neutral aromatic hydrocarbons. Chemical Communications, 2019, 55, 10924-10927.	4.1	5
102	Stabilization of the Closedâ€Ring Isomer of Spiropyran by Amide Naphthotube in Water and Its Application in Nakedâ€Eye Detection of Toxic Paraoxon. ChemPhysChem, 2020, 21, 2249-2253.	2.1	5
103	Selective Recognition of Quaternary Ammonium Ions by Structurally Flexible Cages^{â€}. Chinese Journal of Chemistry, 2021, 39, 1593-1598.	4.9	5
104	Volumetric Properties for the Binding of 1,4-Dioxane to Amide Naphthotubes in Water. Journal of Physical Chemistry B, 2020, 124, 9175-9181.	2.6	5
105	Oncological Prognosis and Fertility Outcomes of Different Surgical Extents for Malignant Ovarian Sex-Cord Stromal Tumors: A Narrative Review. Cancer Management and Research, 2022, Volume 14, 697-717.	1.9	4
106	Photooxygenation and gasâ€phase reactivity of multiply threaded pseudorotaxanes. Journal of Mass Spectrometry, 2016, 51, 269-281.	1.6	2
107	Prismaren: Ein neues Naphtholâ€basiertes makrozyklisches Aren. Angewandte Chemie, 2020, 132, 15926-15928.	2.0	2
108	Titelbild: Achieving Strong Positive Cooperativity through Activating Weak Nonâ€Covalent Interactions (Angew. Chem. 3/2018). Angewandte Chemie, 2018, 130, 605-605.	2.0	1

#	Article	IF	Citations
109	Naphthol-Based Macrocycles. , 2019, , 1-21.		1
110	Naphthol-Based Macrocycles. , 2020, , 975-995.		1
111	The 7th Sino-German Frontiers of Chemistry Symposium - Learning from Nature. Chemistry - an Asian Journal, 2018, 13, 3556-3560.	3.3	0
112	Novel macrocycles â€“ and old ones doing new tricks. Beilstein Journal of Organic Chemistry, 2019, 15, 1838-1839.	2.2	0
113	Stabilization of Imines and Hemiaminals in Water by an Endoâ€Functionalized Container Molecule. Angewandte Chemie, 0, , .	2.0	0