

# Yong Yao

## List of Publications by Year in descending order

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109  
papers

5,373  
citations

109321

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91884

69  
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112  
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112  
docs citations

112  
times ranked

3955  
citing authors

#	ARTICLE	IF	CITATIONS
1	An Amphiphilic Pillar[5]arene: Synthesis, Controllable Self-Assembly in Water, and Application in Calcein Release and TNT Adsorption. <i>Journal of the American Chemical Society</i> , 2012, 134, 15712-15715.	13.7	399
2	A Supramolecular Cross-Linked Conjugated Polymer Network for Multiple Fluorescent Sensing. <i>Journal of the American Chemical Society</i> , 2013, 135, 74-77.	13.7	395
3	A Sugar-Functionalized Amphiphilic Pillar[5]arene: Synthesis, Self-Assembly in Water, and Application in Bacterial Cell Agglutination. <i>Journal of the American Chemical Society</i> , 2013, 135, 10310-10313.	13.7	306
4	Hierarchical Self-Assembly: Well-Defined Supramolecular Nanostructures and Metallohydrogels via Amphiphilic Discrete Organoplatinum(II) Metallacycles. <i>Journal of the American Chemical Society</i> , 2013, 135, 14036-14039.	13.7	216
5	Antitumor Activity of a Unique Polymer That Incorporates a Fluorescent Self-Assembled Metallacycle. <i>Journal of the American Chemical Society</i> , 2017, 139, 15940-15949.	13.7	203
6	CO <sub>2</sub> -Responsive Pillar[5]arene-Based Molecular Recognition in Water: Establishment and Application in Gas-Controlled Self-Assembly and Release. <i>Journal of the American Chemical Society</i> , 2015, 137, 10472-10475.	13.7	188
7	Macrocyclic amphiphiles. <i>Chemical Society Reviews</i> , 2015, 44, 3568-3587.	38.1	188
8	<i>in situ</i> -Hydroxylated Pillar[6]arene: Synthesis, X-ray Crystal Structure, and Host-Guest Complexation. <i>Organic Letters</i> , 2012, 14, 1532-1535.	4.6	181
9	A new water-soluble pillar[5]arene: synthesis and application in the preparation of gold nanoparticles. <i>Chemical Communications</i> , 2012, 48, 6505.	4.1	169
10	Gold nanoparticles stabilized by an amphiphilic pillar[5]arene: preparation, self-assembly into composite microtubes in water and application in green catalysis. <i>Chemical Science</i> , 2013, 4, 3667.	7.4	152
11	A bola-type supra-amphiphile constructed from a water-soluble pillar[5]arene and a rod-coil molecule for dual fluorescent sensing. <i>Chemical Science</i> , 2014, 5, 2778.	7.4	138
12	LCST-type Phase Behavior Induced by Pillar[5]arene/Ionic Liquid Host-Guest Complexation. <i>Advanced Materials</i> , 2013, 25, 6864-6867.	21.0	113
13	A novel fluorescent probe for detecting paraquat and cyanide in water based on pillar[5]arene/10-methylacridinium iodide molecular recognition. <i>Chemical Communications</i> , 2014, 50, 5064-5067.	4.1	96
14	Synthesis of various supramolecular hybrid nanostructures based on pillar[6]arene modified gold nanoparticles/nanorods and their application in pH- and NIR-triggered controlled release. <i>Chemical Science</i> , 2014, 5, 4312-4316.	7.4	89
15	Formation of fluorescent supramolecular polymeric assemblies via orthogonal pillar[5]arene-based molecular recognition and metal ion coordination. <i>Chemical Communications</i> , 2015, 51, 4503-4506.	4.1	72
16	Novel [2]rotaxanes based on the recognition of pillar[5]arenes to an alkane functionalized with triazole moieties. <i>Tetrahedron</i> , 2012, 68, 9179-9185.	1.9	68
17	Host-guest recognition-induced color change of water-soluble pillar[5]arene modified silver nanoparticles for visual detection of spermine analogues. <i>Chemical Communications</i> , 2014, 50, 869-871.	4.1	68
18	Redox-Responsive Complexation between a Pillar[5]arene with Mono(ethylene oxide) Substituents and Paraquat. <i>Organic Letters</i> , 2013, 15, 4722-4725.	4.6	67

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19	Self-Assembly of Metallacages into Multidimensional Suprastructures with Tunable Emissions. <i>Journal of the American Chemical Society</i> , 2018, 140, 12819-12828.	13.7	63
20	Functionalization of inorganic nanomaterials with pillar[5]arenes. <i>Chemical Communications</i> , 2019, 55, 6817-6826.	4.1	60
21	Recent development of pillar[n]arene-based amphiphiles. <i>Chinese Chemical Letters</i> , 2021, 32, 1267-1279.	9.0	60
22	Selective Decoration of Metal Nanoparticles inside or outside of Organic Microstructures via Self-Assembly of Resorcinarene. <i>ACS Nano</i> , 2010, 4, 2129-2141.	14.6	59
23	Water-soluble supramolecular polymers constructed by macrocycle-based host-guest interactions. <i>Chinese Chemical Letters</i> , 2019, 30, 37-43.	9.0	55
24	A new amphiphilic pillar[5]arene: synthesis and controllable self-assembly in water and application in white-light-emitting systems. <i>Chemical Communications</i> , 2018, 54, 13006-13009.	4.1	53
25	Responsive reverse giant vesicles and gel from self-organization of a bolaamphiphilic pillar[5]arene. <i>Soft Matter</i> , 2013, 9, 7314.	2.7	48
26	Excellent antitumor and antimetastatic activities based on novel coumarin/pyrazole oxime hybrids. <i>European Journal of Medicinal Chemistry</i> , 2019, 166, 470-479.	5.5	48
27	NO-releasing polypeptide nanocomposites reverse cancer multidrug resistance via triple therapies. <i>Acta Biomaterialia</i> , 2021, 123, 335-345.	8.3	48
28	A water-soluble supramolecular polymer constructed by pillar[5]arene-based molecular recognition. <i>Chemical Communications</i> , 2014, 50, 13932-13935.	4.1	46
29	A CO <sub>2</sub> -responsive pillar[5]arene: synthesis and self-assembly in water. <i>Chemical Communications</i> , 2014, 50, 5503.	4.1	43
30	2D amphiphilic organoplatinum(II) metallacycles: their syntheses, self-assembly in water and potential application in photodynamic therapy. <i>Chemical Communications</i> , 2018, 54, 8068-8071.	4.1	43
31	A water-soluble pillar[6]arene: synthesis, host-guest chemistry, controllable self-assembly, and application in controlled release. <i>RSC Advances</i> , 2014, 4, 9039.	3.6	42
32	Supramolecular polymer networks based on pillar[5]arene: synthesis, characterization and application in the Fenton reaction. <i>Chemical Communications</i> , 2020, 56, 948-951.	4.1	42
33	A <sup>3</sup> -ray and dual redox-responsive supramolecular polymer constructed by a selenium containing pillar[5]arene dimer and a neutral guest. <i>Chemical Communications</i> , 2015, 51, 11112-11114.	4.1	40
34	Self-Assembly and Metallization of Resorcinarene Microtubes in Water. <i>Advanced Functional Materials</i> , 2008, 18, 3981-3990.	14.9	39
35	A Cu <sup>2+</sup> specific metallohydrogel: preparation, multi-responsiveness and pillar[5]arene-induced morphology transformation. <i>Chemical Communications</i> , 2015, 51, 8461-8464.	4.1	37
36	The first water-soluble pillar[5]arene dimer: synthesis and construction of a reversible fluorescent supramolecular polymer network in water. <i>Chemical Communications</i> , 2017, 53, 165-167.	4.1	37

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37	Simply synthesized nitrogen-doped graphene quantum dot (NGQD)-modified electrode for the ultrasensitive photoelectrochemical detection of dopamine. <i>Nanophotonics</i> , 2020, 9, 3831-3839.	6.0	36
38	Cationic Water-Soluble Pillar[5]arene-Modified Cu <sub>2</sub> Se Nanoparticles: Supramolecular Trap for ATP and Application in Targeted Photothermal Therapy in the NIR-II Window. <i>ACS Macro Letters</i> , 2020, 9, 1558-1562.	4.8	35
39	Mitochondria-targeting NO gas nanogenerator for augmenting mild photothermal therapy in the NIR-II biowindow. <i>Chemical Communications</i> , 2020, 56, 14491-14494.	4.1	35
40	NIR-II light triggered nitric oxide release nanoplatfrom combined chemo-photothermal therapy for overcoming multidrug resistant cancer. <i>Journal of Materials Chemistry B</i> , 2021, 9, 1698-1706.	5.8	35
41	Recent progress of Y-series electron acceptors for organic solar cells. <i>Nano Select</i> , 2021, 2, 2029-2039.	3.7	35
42	Pillar[5]arene-based supramolecular assemblies with two-step sequential fluorescence enhancement for mitochondria-targeted cell imaging. <i>Journal of Materials Chemistry C</i> , 2020, 8, 15622-15625.	5.5	35
43	Pillar[5]arene-derived covalent organic materials with pre-encoded molecular recognition for targeted and synergistic cancer photo- and chemotherapy. <i>Chemical Communications</i> , 2022, 58, 1689-1692.	4.1	35
44	Preparation of Resorcinarene-Functionalized Gold Nanoparticles and Their Catalytic Activities for Reduction of Aromatic Nitro Compounds. <i>Chinese Journal of Chemistry</i> , 2010, 28, 705-712.	4.9	34
45	Pillar[5]arene-Based 3D Hybrid Supramolecular Polymer for Green Catalysis in Water. <i>Inorganic Chemistry</i> , 2021, 60, 2883-2887.	4.0	34
46	An enzyme-responsive supra-amphiphile constructed by pillar[5]arene/acetylcholine molecular recognition. <i>RSC Advances</i> , 2014, 4, 18763-18771.	3.6	32
47	Reversible assembly of silver nanoparticles driven by host-guest interactions based on water-soluble pillar[n]arenes. <i>Chemical Communications</i> , 2014, 50, 5072-5074.	4.1	32
48	A pillar[5]arene based gel from a low-molecular-weight gelator for sustained dye release in water. <i>Dalton Transactions</i> , 2017, 46, 16802-16806.	3.3	31
49	Ultrasensitive photoelectrochemical immunosensor for carcinoembryonic antigen detection based on pillar[5]arene-functionalized Au nanoparticles and hollow PANI hybrid BiOBr heterojunction. <i>Biosensors and Bioelectronics</i> , 2022, 208, 114220.	10.1	31
50	Water-soluble pillar[6]arene stabilized silver nanoparticles: preparation and application in amino acid detection. <i>Tetrahedron Letters</i> , 2014, 55, 3195-3199.	1.4	29
51	Improved in vivo tumor therapy via host-guest complexation. <i>Journal of Materials Chemistry B</i> , 2016, 4, 2691-2696.	5.8	29
52	Water-soluble pillar[5]arene induced the morphology transformation of self-assembled nanostructures and had further application in paraquat detection. <i>Chemical Communications</i> , 2017, 53, 3725-3728.	4.1	29
53	Pillar[5]arene Based [1]rotaxane Systems With Redox-Responsive Host-Guest Property: Design, Synthesis and the Key Role of Chain Length. <i>Frontiers in Chemistry</i> , 2019, 7, 508.	3.6	29
54	Regulating Intercalation of Layered Compounds for Electrochemical Energy Storage and Electrocatalysis. <i>Advanced Functional Materials</i> , 2021, 31, 2104543.	14.9	29

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55	An amphiphilic metallaclip with enhanced fluorescence emission in water: synthesis and controllable self-assembly into multi-dimensional micro-structures. <i>Chemical Communications</i> , 2019, 55, 10132-10134.	4.1	28
56	Microwave irradiation assisted synthesis, alkylation reaction, and configuration analysis of aryl pyrogallol[4]arenes. <i>Tetrahedron</i> , 2007, 63, 9614-9620.	1.9	26
57	Amphiphilic pillar[5]arenes: influence of chemical structure on self-assembly morphology and application in gas response and $\lambda$ -DNA condensation. <i>RSC Advances</i> , 2014, 4, 6042.	3.6	26
58	pH/ROS dual-responsive supramolecular polypeptide prodrug nanomedicine based on host-guest recognition for cancer therapy. <i>Acta Biomaterialia</i> , 2022, 143, 381-391.	8.3	26
59	A Water-Soluble Cyclotrimeratrylene-Based Supra-amphiphile: Synthesis, pH-Responsive Self-Assembly in Water, and Its Application in Controlled Drug Release. <i>Organic Letters</i> , 2016, 18, 2910-2913.	4.6	24
60	Pillar[5]arene-Based [2]Rotaxane: Synthesis, Characterization, and Application in a Coupling Reaction. <i>Inorganic Chemistry</i> , 2020, 59, 11915-11919.	4.0	24
61	Icing on the cake: combining a dual PEG-functionalized pillararene and an A-D-A small molecule photosensitizer for multimodal phototherapy. <i>Science China Chemistry</i> , 2022, 65, 1134-1141.	8.2	24
62	Rim-differentiated pillar[5]arenes. <i>Chinese Chemical Letters</i> , 2021, 32, 3322-3330.	9.0	23
63	Platinum(II) Metallatriangle: Construction, Coassembly with Polypeptide, and Application in Combined Cancer Photodynamic and Chemotherapy. <i>Inorganic Chemistry</i> , 2021, 60, 7627-7631.	4.0	23
64	A fused-ring small molecule-based nanoparticles for combined photothermal and photodynamic therapy of cancer. <i>Chemical Communications</i> , 2021, 57, 12020-12023.	4.1	23
65	GOx-assisted synthesis of pillar[5]arene based supramolecular polymeric nanoparticles for targeted/synergistic chemo-chemodynamic cancer therapy. <i>Journal of Nanobiotechnology</i> , 2022, 20, 33.	9.1	23
66	Shape-controlled synthesis of planar PtPb nanoplates for highly efficient methanol electro-oxidation reaction. <i>Chemical Communications</i> , 2020, 56, 9138-9141.	4.1	21
67	Recent advances in the development of metal-organic framework-based gas-releasing nanoplatfoms for synergistic cancer therapy. <i>Dalton Transactions</i> , 2021, 50, 1189-1196.	3.3	21
68	Nonfullerene electron acceptors with electron-deficient units containing cyano groups for organic solar cells. <i>Materials Chemistry Frontiers</i> , 2021, 5, 5549-5572.	5.9	21
69	Water-soluble pillar[4]arene[1]quinone: Synthesis, host-guest property and application in the fluorescence turn-on sensing of ethylenediamine in aqueous solution, organic solvent and air. <i>Chinese Chemical Letters</i> , 2022, 33, 1475-1478.	9.0	21
70	Hybrid supramolecular materials constructed from pillar[5]arene based host-guest interactions with photo and redox tunable properties. <i>Journal of Colloid and Interface Science</i> , 2018, 525, 48-53.	9.4	20
71	Reversible surface activity and self-assembly behavior and transformation of amphiphilic ionic liquids in water induced by a pillar[5]arene-based host-guest interaction. <i>Journal of Colloid and Interface Science</i> , 2019, 533, 42-46.	9.4	20
72	Synthesis and controllable self-assembly of 3D amphiphilic organoplatinum metallacages in water. <i>Chemical Communications</i> , 2019, 55, 5167-5170.	4.1	20

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73	Well-defined nano-sunflowers formed by self-assembly of a rod-coil amphiphile in water and their morphology transformation based on a water-soluble pillar[5]arene. <i>Chemical Communications</i> , 2014, 50, 8040-8042.	4.1	19
74	Resorcinarene Induced Assembly of Carotene and Lutein into Hierarchical Superstructures. <i>Journal of the American Chemical Society</i> , 2020, 142, 20583-20587.	13.7	19
75	Pillar[5]arene-based [3]rotaxanes: Convenient construction via multicomponent reaction and pH responsive self-assembly in water. <i>Chinese Chemical Letters</i> , 2020, 31, 1550-1553.	9.0	18
76	CO <sub>2</sub> and photo-controlled reversible conversion of supramolecular assemblies based on water soluble pillar[5]arene and coumarin-containing guest. <i>Chinese Chemical Letters</i> , 2021, 32, 349-352.	9.0	18
77	An enhanced photo-electrochemical sensor constructed from pillar [5]arene functionalized Au NPs for ultrasensitive detection of caffeic acid. <i>Talanta</i> , 2022, 243, 123322.	5.5	18
78	Tumor microenvironment responsive polypeptide-based supramolecular nanoprodrugs for combination therapy. <i>Acta Biomaterialia</i> , 2022, 146, 396-405.	8.3	18
79	Pillar[6]arene-based supramolecular polymeric materials constructed <i>via</i> electrostatic interactions for rapid and efficient organic dye removal from water. <i>Nanoscale Advances</i> , 2021, 3, 1906-1909.	4.6	17
80	P-glycoprotein suppression by photothermal-responsive nitric oxide releasing nanoplatform for triple-combination therapy of multidrug resistant cancer. <i>Materials and Design</i> , 2021, 211, 110160.	7.0	17
81	Hierarchical self-assembly of 3D amphiphilic discrete organoplatinum(II) metallacage in water. <i>Chinese Chemical Letters</i> , 2020, 31, 689-692.	9.0	16
82	Formation of a [2]pseudorotaxane based on a pillar[5]arene and a rigid guest in solution and in the solid state. <i>Chemical Communications</i> , 2014, 50, 10482-10484.	4.1	15
83	Four Pillar[5]arene Constitutional Isomers: Synthesis, Crystal Structures, and Host-Guest Complexation of Their Derivatives with Paraquat in Water. <i>Chinese Journal of Chemistry</i> , 2015, 33, 356-360.	4.9	14
84	An specific photoelectrochemical sensor based on pillar[5]arenes functionalized gold nanoparticles and bismuth oxybromide nanoflowers for bovine hemoglobin recognition. <i>Journal of Colloid and Interface Science</i> , 2022, 620, 187-198.	9.4	14
85	Polydopamine-drug conjugate nanocomposites based on ZIF-8 for targeted cancer photothermal-chemotherapy. <i>Journal of Biomedical Materials Research - Part A</i> , 2022, 110, 954-963.	4.0	14
86	Host-guest complexation between 1,4-dipropoxypillar[5]arene and imidazolium-based ionic liquids. <i>RSC Advances</i> , 2014, 4, 35489-35492.	3.6	13
87	Rim-differentiated pillar[5]arene based nonporous adaptive crystals. <i>Chemical Communications</i> , 2022, 58, 2480-2483.	4.1	13
88	A Discrete Platinum(II) Amphiphile: Construction, Characterization, and Controllable Self-Assembly in Different Solvents. <i>Inorganic Chemistry</i> , 2020, 59, 7924-7927.	4.0	12
89	Enhancing the Stability and Photothermal Conversion Efficiency of ICG by Pillar[5]arene-Based Host-Guest Interaction. <i>Frontiers in Chemistry</i> , 2021, 9, 775436.	3.6	12
90	Synthesis, crystal structures and complexing properties of tetramethoxyresorcinarene functionalized tetraacylhydrazones. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2014, 79, 485-494.	1.6	11

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91	Intelligent Supramolecular Nanoprodrug Based on Anionic Water-Soluble [2]Biphenyl-Extended-Pillar[6]arenes for Combination Therapy. <i>ACS Macro Letters</i> , 2022, 11, 830-834.	4.8	10
92	A cavity extended water-soluble resorcin[4]arene: synthesis, pH-controlled complexation with paraquat, and application in controllable self-assembly. <i>New Journal of Chemistry</i> , 2017, 41, 916-919.	2.8	9
93	Amphiphilic pillar[5]arenes. <i>Supramolecular Chemistry</i> , 2018, 30, 610-618.	1.2	9
94	Pillar[5]arenes: From Synthesis, Host-Guest Chemistry to Self-Assembly Properties and Applications. <i>Acta Chimica Sinica</i> , 2014, 72, 1053.	1.4	9
95	Glucose Oxidase Integrated Porphyrinic Covalent Organic Polymers for Combined Photodynamic/Chemodynamic/Starvation Therapy in Cancer Treatment. <i>ACS Biomaterials Science and Engineering</i> , 2022, 8, 1956-1963.	5.2	9
96	Editorial: Host-Guest Chemistry of Macrocycles. <i>Frontiers in Chemistry</i> , 2020, 8, 628200.	3.6	8
97	Precise Synthesis of Fused Decacyclic Electron Acceptor Isomers for Organic Solar Cells. <i>Solar Rrl</i> , 2021, 5, 2100163.	5.8	8
98	Platinum(II)-Metallaclip-Based Theranostics for Cell Imaging and Synergetic Chemotherapy Photodynamic Therapy. <i>Inorganic Chemistry</i> , 2023, 62, 1786-1790.	4.0	8
99	An Ag <sub>2</sub> O-responsive [2]pseudorotaxane based on the pillar[5]arene/bis(imidazolium) dication molecular recognition motif. <i>Tetrahedron Letters</i> , 2015, 56, 2091-2093.	1.4	7
100	Supramolecular amphiphilicities based on water-soluble pillar[5]arene/paraquat derivatives and their self-assembly behaviour in water. <i>Supramolecular Chemistry</i> , 2017, 29, 161-166.	1.2	7
101	Syntheses of water-soluble acyclic naphthalene oligomers and their applications in water. <i>Dalton Transactions</i> , 2019, 48, 6333-6336.	3.3	6
102	Form-stable phase change materials based on polyolefin elastomer and octadecylamine-functionalized graphene for thermal energy storage. <i>Nanotechnology</i> , 2020, 31, 245402.	2.6	6
103	Design and Construction of Pillar[5]arene-Based Bis-[1]rotaxane. <i>Chinese Journal of Organic Chemistry</i> , 2019, 39, 3483.	1.3	6
104	Preparation and application of tubular assemblies based on amphiphilic tetramethoxyresorcinarenes. <i>RSC Advances</i> , 2015, 5, 102454-102461.	3.6	5
105	Bifunctional effect of Bi(OH) <sub>3</sub> on the PdBi surface as interfacial Brønsted base enables ethanol electro-oxidation. <i>Journal of Colloid and Interface Science</i> , 2022, 611, 327-335.	9.4	5
106	Au Nanoparticles/Nitrogen-Doped Graphene Quantum Dot Composites as Photo-Electrochemical Detection of Caffeic Acid. <i>Nanomaterials</i> , 2020, 10, 1972.	4.1	4
107	Synthesis and Biological Activity of New Cyanoacrylate Compounds Bearing Oxazole Moiety. <i>Chinese Journal of Organic Chemistry</i> , 2018, 38, 2122.	1.3	3
108	Construction and Property Investigation of Serial Pillar[5]arene-Based [1]Rotaxanes. <i>Frontiers in Chemistry</i> , 0, 10, .	3.6	2

#	ARTICLE	IF	CITATIONS
109	Host-guest complexation between simple pillar[5]arene and a new type of neutral guests. <i>Supramolecular Chemistry</i> , 2020, 32, 614-619.	1.2	0