Geng-Wu Zhang

List of Publications by Year in Descending Order

117 papers	4,303 citations	39 h-index	62 g-index
126 ext. papers	5,265 ext. citations	7 avg, IF	6.24 L-index

#	Paper	IF	Citations
117	Supramolecular tessellations by the exo-wall interactions of pagoda[4]arene. *Nature Communications*, **2021**, 12, 6378	17.4	3
116	Frontiers in circularly polarized luminescence: molecular design, self-assembly, nanomaterials, and applications. *Science China Chemistry*, **2021**, 64, 2060	7.9	46
115	Recent advances on triptycene derivatives in supramolecular and materials chemistry. *Organic and Biomolecular Chemistry*, **2021**, 19, 10047-10067	3.9	3
114	D-π-A type planar chiral TADF materials for efficient circularly polarized electroluminescence. *Materials Horizons*, **2021**, 8, 3417-3423	14.4	4
113	Towards the Highly Efficient Synthesis and Selective Methylation of C(sp)-Bridged [6]Cycloparaphenylenes from Fluoren[3]arenes. *Angewandte Chemie - International Edition*, **2021**, 60, 13021-13028	16.4	14
112	A Green Fluorescent Nitrogen-Doped Aromatic Belt Containing a [6]Cycloparaphenylene Skeleton. *Angewandte Chemie*, **2021**, 133, 15419-15423	3.6	2
111	A Green Fluorescent Nitrogen-Doped Aromatic Belt Containing a [6]Cycloparaphenylene Skeleton. *Angewandte Chemie - International Edition*, **2021**, 60, 15291-15295	16.4	6
110	Propeller Configuration Flipping of the Trivalent Boron-Inducing Substituent Dependence of the Circularly Polarized Luminescence Sign in Triarylborane-Based [7]Helicenes. *Organic Letters*, **2021**, 23, 4759-4763	6.2	1
109	Thermally activated delayed fluorescence material-sensitized helicene enantiomer-based OLEDs: a new strategy for improving the efficiency of circularly polarized electroluminescence. *Science China Materials*, **2021**, 64, 899-908	7.1	17
108	Saucer[n]arenes: Synthesis, Structure, Complexation, and Guest-Induced Circularly Polarized Luminescence Property. *Angewandte Chemie*, **2021**, 133, 22098-22104	3.6	1
107	High-Efficiency Circularly Polarized Electroluminescence from TADF-Sensitized Fluorescent Enantiomers. *Angewandte Chemie - International Edition*, **2021**, 60, 20728-20733	16.4	18
106	Saucer[n]arenes: Synthesis, Structure, Complexation, and Guest-Induced Circularly Polarized Luminescence Property. *Angewandte Chemie - International Edition*, **2021**, 60, 21927-21933	16.4	5
105	Chiral TADF-Active Polymers for High-Efficiency Circularly Polarized Organic Light-Emitting Diodes. *Angewandte Chemie - International Edition*, **2021**, 60, 23619-23624	16.4	20
104	Triptycene-derived TADF enantiomers displaying circularly polarized luminescence and high-efficiency electroluminescence. *Organic Electronics*, **2021**, 99, 106355	3.5	0
103	Synthesis of Chiral Helic[1]triptycene[3]arenes and Their Enantioselective Recognition Towards Chiral Guests Containing Aminoindan Groups. *Molecules*, **2021**, 26,	4.8	3
102	3,6-Fluoren[5]arenes: synthesis, structure and complexation with fullerenes C and C. *Chemical Communications*, **2021**, 57, 3987-3990	5.8	4
101	Chiral Conjugated Thermally Activated Delayed Fluorescent Polymers for Highly Efficient Circularly Polarized Polymer Light-Emitting Diodes.. *ACS Applied Materials & Interfaces*, **2021**,	9.5	6

100	Recent advances in higher order rotaxane architectures. *Chemical Communications*, **2020**, 56, 9916-9936	5.8	25
99	Pagoda[4]arene and -Pagoda[4]arene. *Journal of the American Chemical Society*, **2020**, 142, 8262-8269	16.4	51
98	Triptycene-Derived Macrocyclic Arenes **2020**, 139-180		
97	Axially Chiral TADF-Active Enantiomers Designed for Efficient Blue Circularly Polarized Electroluminescence. *Angewandte Chemie - International Edition*, **2020**, 59, 3500-3504	16.4	93
96	pH-Controlled motions in mechanically interlocked molecules. *Materials Chemistry Frontiers*, **2020**, 4, 12-28	7.8	22
95	Recent progress of narrowband TADF emitters and their applications in OLEDs. *Journal of Materials Chemistry C*, **2020**, 8, 11340-11353	7.1	74
94	Helic[1]triptycene[3]arene: Synthesis, Complexation, and Formation of [2]Rotaxane Shuttle. *Journal of Organic Chemistry*, **2020**, 85, 11465-11474	4.2	8
93	Phthalimide-based "D-N-A" emitters with thermally activated delayed fluorescence and isomer-dependent room-temperature phosphorescence properties. *Chemical Communications*, **2019**, 55, 12172-12175	5.8	14
92	Construction of Chiral Nanoassemblies Based on Host-Guest Complexes and Their Responsive CD and CPL Properties: Chirality Transfer From 2,6-helic[6]arenes to a Stilbazolium Derivative. *Frontiers in Chemistry*, **2019**, 7, 543	5	12
91	Step-by-step reaction-powered mechanical motion triggered by a chemical fuel pulse. *Chemical Science*, **2019**, 10, 2529-2533	9.4	24
90	Directional Transportation of a Helic[6]arene along a Nonsymmetric Molecular Axle. *Journal of Organic Chemistry*, **2019**, 84, 5872-5876	4.2	7
89	Complexation of 2,6-helic[6]arene and its derivatives with 1,1'-dimethyl-4,4'-bipyridinium salts and protonated 4,4'-bipyridinium salts: an acid-base controllable complexation. *Beilstein Journal of Organic Chemistry*, **2019**, 15, 1795-1804	2.5	4
88	Importance of Conformational Change in Excited States for Efficient Thermally Activated Delayed Fluorescence. *Journal of Physical Chemistry C*, **2019**, 123, 19322-19332	3.8	11
87	Triptycene-Derived Macrocyclic Arenes **2019**, 1-43		
86	A Triply Operable Molecular Switch: Anion-, Acid/Base- and Solvent-Responsive [2]Rotaxane. *European Journal of Organic Chemistry*, **2019**, 2019, 3406-3411	3.2	6
85	Chiral Nanoparticles with Full-Color and White CPL Properties Based on Optically Stable Helical Aromatic Imide Enantiomers. *ACS Applied Materials & Interfaces*, **2018**, 10, 8225-8230	9.5	52
84	Stable Enantiomers Displaying Thermally Activated Delayed Fluorescence: Efficient OLEDs with Circularly Polarized Electroluminescence. *Angewandte Chemie - International Edition*, **2018**, 57, 2889-2893	16.4	213
83	Efficient control of movement in non-photoresponsive molecular machines by a photo-induced proton-transfer strategy. *Chemical Communications*, **2018**, 54, 3536-3539	5.8	23

82	Triptycene-Derived Macrocyclic Arenes: From Calixarenes to Helicarenes. *Accounts of Chemical Research*, **2018**, 51, 2093-2106	24.3	83
81	A Route to Enantiopure (O-Methyl)-2,6-Helic[6]arenes: Synthesis of Hexabromo-Substituted 2,6-Helic[6]arene Derivatives and Their Suzuki-Miyaura Coupling Reactions. *Journal of Organic Chemistry*, **2018**, 83, 11532-11540	4.2	14
80	Formation of charge-transfer complexes based on a tropylium cation and 2,6-helic[6]arenes: a visible redox stimulus-responsive process. *Chemical Communications*, **2017**, 53, 2582-2585	5.8	25
79	Aromatic-Imide-Based Thermally Activated Delayed Fluorescence Materials for Highly Efficient Organic Light-Emitting Diodes. *Angewandte Chemie - International Edition*, **2017**, 56, 8818-8822	16.4	87
78	Switchable Complexation between (O-Methyl)-2,6-helic[6]arene and Protonated Pyridinium Salts Controlled by Acid/Base and Photoacid. *Organic Letters*, **2017**, 19, 3175-3178	6.2	33
77	Complexation of Racemic 2,6-Helic[6]arene and Its Hexamethyl-Substituted Derivative with Quaternary Ammonium Salts, N-Heterocyclic Salts, and Tetracyanoquinodimethane. *Chemistry - A European Journal*, **2017**, 23, 3735-3742	4.8	20
76	Synthesis of a water-soluble 2,6-helic[6]arene derivative and its strong binding abilities towards quaternary phosphonium salts: an acid/base controlled switchable complexation process. *Chemical Communications*, **2017**, 53, 10433-10436	5.8	17
75	Complexation Between (O-Methyl) -2,6-Helic[6]arene and Tertiary Ammonium Salts: Acid/Base- or Chloride-Ion-Responsive Host-Guest Systems and Synthesis of [2]Rotaxane. *Chemistry - an Asian Journal*, **2017**, 12, 2576-2582	4.5	13
74	Synthesis, Structures, and Photophysical Properties of Optically Stable 1,16-Diphenyl-3,14-diaryl-Substituted Tetrahydrobenzo[5]helicenediol Derivatives: Enantioselective Recognition toward Tryptophan Methyl Esters. *Journal of Organic Chemistry*, **2017**, 82, 7402-7409	4.2	22
73	Synthesis, Structures, Resolution, and Chiroptical Properties of 1,16-Diaryl-Substituted Benzo[5]helicene Derivatives. *Chemistry - an Asian Journal*, **2017**, 12, 86-94	4.5	17
72	Self-Assembly of a [2]Pseudorotaxane by an Inchworm-Motion Mechanism. *Chemistry - A European Journal*, **2016**, 22, 15075-15084	4.8	7
71	Helical aromatic imide based enantiomers with full-color circularly polarized luminescence. *Chemical Communications*, **2016**, 52, 9921-4	5.8	68
70	Synthesis and Structures of Triptycene-Derived Oxacalixarenes with Expanded Cavities: Tunable and Switchable Complexation towards Bipyridinium Salts. *Chemistry - an Asian Journal*, **2016**, 11, 2756-2762	4.5	6
69	Click and Patterned Functionalization of Graphene by Diels-Alder Reaction. *Journal of the American Chemical Society*, **2016**, 138, 7448-51	16.4	62
68	Triptycene-Based Chiral Macrocyclic Hosts for Highly Enantioselective Recognition of Chiral Guests Containing a Trimethylamino Group. *Angewandte Chemie - International Edition*, **2016**, 55, 5304-8	16.4	132
67	Solid-state Russian doll-like capsules based on a triptycene-derived macrotricyclic host with paraquat derivative and polycyclic aromatic hydrocarbons. *CrystEngComm*, **2016**, 18, 4900-4904	3.3	1
66	Guest-dependent directional complexation based on triptycene derived oxacalixarene: formation of oriented rotaxanes. *Chemical Science*, **2016**, 7, 469-474	9.4	36
65	Benzo[5]helicene-based conjugated polymers: synthesis, photophysical properties, and application for the detection of nitroaromatic explosives. *Polymer Chemistry*, **2016**, 7, 310-318	4.9	30

64	Acid/base controllable complexation of a triptycene-derived macrotricyclic host and protonated 4,4'-bipyridinium/pyridinium salts. *Chemical Communications*, **2016**, 52, 590-3	5.8	7
63	Triptycene-Based Chiral Macrocyclic Hosts for Highly Enantioselective Recognition of Chiral Guests Containing a Trimethylamino Group. *Angewandte Chemie*, **2016**, 128, 5390-5394	3.6	38
62	Directional Molecular Transportation Based on a Catalytic Stopper-Leaving Rotaxane System. *Journal of the American Chemical Society*, **2016**, 138, 5652-8	16.4	49
61	Complexation between a triptycene-derived oxacalixarene and □extended viologens: linker-length-dependent orientation of the macrocycles in pseudo[3]rotaxanes. *Organic and Biomolecular Chemistry*, **2016**, 14, 10481-10488	3.9	7
60	Stepwise Motion in a Multivalent [2](3)Catenane. *Journal of the American Chemical Society*, **2015**, 137, 9739-45	16.4	87
59	A molecular pulley based on a triply interlocked [2]rotaxane. *Chemical Communications*, **2015**, 51, 8241-4	5.8	40
58	Guest-dependent complexation of triptycene-derived macrotricyclic host containing one anthracene moiety with paraquat derivatives: construction of [2]rotaxanes. *Supramolecular Chemistry*, **2015**, 27, 357-363	1.8	5
57	Dialkoxybenzo[j]fluoranthenes: synthesis, structures, photophysical properties, and optical waveguide application. *RSC Advances*, **2015**, 5, 18609-18614	3.7	6
56	Self-sorting behavior of a four-component host-guest system and its incorporation into a linear supramolecular alternating copolymer. *Chemical Communications*, **2015**, 51, 3593-5	5.8	24
55	Linker-Length-Dependent Complexation of a Triptycene-Derived Macrotricyclic Polyether with □Extended Viologens. *European Journal of Organic Chemistry*, **2015**, 2015, 1257-1263	3.2	2
54	Tristable [n]rotaxanes: from molecular shuttle to molecular cable car. *Chemical Science*, **2014**, 5, 1520	9.4	82
53	Triptycene-derived calixarenes, heterocalixarenes and analogues. *Journal of Inclusion Phenomena and Macrocyclic Chemistry*, **2014**, 79, 261-281	1.7	29
52	Organic Nanoparticles: Tetrahydro[5]helicene-Based Nanoparticles for Structure-Dependent Cell Fluorescent Imaging (Adv. Funct. Mater. 28/2014). *Advanced Functional Materials*, **2014**, 24, 4378-4378	15.6	
51	Tetrahydro[5]helicene-based full-color emission dyes in both solution and solid states: synthesis, structures, photophysical properties and optical waveguide applications. *Journal of Materials Chemistry C*, **2014**, 2, 8373-8380	7.1	54
50	Triptycene-derived calix[6]arene analogues: synthesis, structure and complexation with paraquat derivatives. *Organic Chemistry Frontiers*, **2014**, 1, 140	5.2	9
49	Synthesis and Reactions of Triptycene-Derived Bromocalix[5]arenes: Conformational Transformation from Cone to 1,2-Alternate. *European Journal of Organic Chemistry*, **2014**, 2014, 1976-1983	3.2	5
48	Iptycene-derived crown ether hosts for molecular recognition and self-assembly. *Accounts of Chemical Research*, **2014**, 47, 2026-40	24.3	176
47	Dioxygen-Triggered Transannular Dearomatization of Benzo[5]helicene Diols: Highly Efficient Synthesis of Chiral □Extended Diones. *Angewandte Chemie*, **2014**, 126, 4736-4739	3.6	9

46	Tetrahydro[5]helicene-Based Nanoparticles for Structure-Dependent Cell Fluorescent Imaging. *Advanced Functional Materials*, **2014**, 24, 4405-4412	15.6	43
45	A multi-stimuli responsive organogel based on a tetrapeptide–dithienylcyclopentene conjugate. *Soft Matter*, **2013**, 9, 7538	3.6	32
44	Iptycenes Chemistry **2013**,		56
43	Supramolecular polymer gel with multi stimuli responsive, self-healing and erasable properties generated by host–guest interactions. *Polymer*, **2013**, 54, 6929-6935	3.9	59
42	Complexation of triptycene-derived macrotricyclic polyether with paraquat derivatives, diquat, and a 2,7-diazapyrenium salt: guest-induced conformational changes of the host. *Journal of Organic Chemistry*, **2013**, 78, 3235-42	4.2	25
41	Cross-linked supramolecular polymer networks with responsive and elastic gel properties via host–guest complexation: controlled release of squaraine dyes. *Soft Matter*, **2013**, 9, 4875	3.6	41
40	Synthesis, Structures, and Optical Properties of Aza[4]helicenes. *European Journal of Organic Chemistry*, **2013**, 2013, 3059-3066	3.2	20
39	A Stimulus-Response and Self-Healing Supramolecular Polymer Gel Based on Host–Guest Interactions. *Macromolecular Chemistry and Physics*, **2013**, 214, 1596-1601	2.6	34
38	Three-dimensional nanographene based on triptycene: synthesis and its application in fluorescence imaging. *Organic Letters*, **2012**, 14, 5912-5	6.2	55
37	Triptycene-Based Microporous Polymers: Synthesis and Their Gas Storage Properties.. *ACS Macro Letters*, **2012**, 1, 190-193	6.6	125
36	Simple, efficient and selective colorimetric sensors for naked eye detection of Hg2+, Cu2+ and Fe3+. *RSC Advances*, **2012**, 2, 4415	3.7	35
35	Novel triptycene-derived hosts: synthesis and their applications in supramolecular chemistry. *Chemical Communications*, **2011**, 47, 1674-88	5.8	222
34	Recent Developments in Synthesis and Applications of Triptycene and Pentiptycene Derivatives. *European Journal of Organic Chemistry*, **2011**, 2011, 6377-6403	3.2	117
33	Triptycene-derived calix[6]resorcinarene-like hosts: synthesis, structure and self-assemblies in the solid state. *Chemical Communications*, **2011**, 47, 12170-2	5.8	23
32	Formation of 1:2 host-guest complexes based on triptycene-derived macrotricycle and paraquat derivatives: anion–interactions between PF6(-) and bipyridinium rings in the solid state. *Organic Letters*, **2011**, 13, 5688-91	6.2	22
31	Self-assembled interwoven cages from triptycene-derived bis-macrotricyclic polyether and multiple branched paraquat-derived subunits. *Organic Letters*, **2010**, 12, 5764-7	6.2	18
30	Synthesis and analysis of hydroxyl substituted triptycene adducts: the competitive recognition between the hydroxyl substituted triptycenes with 4, 4?-bipyridine and solvent molecules. *CrystEngComm*, **2010**, 12, 3255	3.3	24
29	Synthesis, structures, and conformational characteristics of triptycene-derived calix[5]arenes. *Organic Letters*, **2010**, 12, 524-7	6.2	35

28	Nanotoroidal tubule assembled from a functionalized oxacalix[4]arene. *CrystEngComm*, **2010**, 12, 3502	3.3	15
27	Study of the Complexation Behavior of Calixarene with Transition Metal Cations by UV-vis and Fluorescent Spectra. *Chinese Journal of Chemistry*, **2010**, 20, 917-920	4.9	2
26	Synthesis of A Bis-Macrotricyclic Host and Its Complexation with Secondary Ammonium Salts: An Acid–Base Switchable Molecular Handcuff. *European Journal of Organic Chemistry*, **2010**, 2010, 5056-5062	3.2	15
25	Triptycene-derived calix[6]arenes: synthesis, structures, and their complexation with fullerenes C60 and C70. *Chemistry - A European Journal*, **2010**, 16, 8072-9	4.8	56
24	Triptycene-derived calix[6]arenes: synthesis, structure and tubular assemblies in the solid state. *Chemical Communications*, **2009**, 6771-3	5.8	36
23	A highly efficient and selective turn-on fluorescent sensor for Cu2+ ion based on calix[4]arene bearing four iminoquinoline subunits on the upper rim. *Chemical Communications*, **2008**, 1774-6	5.8	145
22	Guest-dependent complexation of triptycene-based macrotricyclic host with paraquat derivatives and secondary ammonium salts: a chemically controlled complexation process. *Journal of Organic Chemistry*, **2008**, 73, 6800-6	4.2	54
21	Effective nonenzymatic kinetic resolution of racemic m-nitro-substituted inherently chiral aminocalix[4]arenes. *Organic Letters*, **2008**, 10, 477-9	6.2	53
20	Inherently chiral calix[4]arene-based bifunctional organocatalysts for enantioselective aldol reactions. *Tetrahedron*, **2008**, 64, 8668-8675	2.4	59
19	Formation of ternary complexes between a macrotricyclic host and hetero-guest pairs: an acid-base controlled selective complexation process. *Organic Letters*, **2007**, 9, 4207-10	6.2	61
18	A new approach to enantiopure inherently chiral calix[4]arenes: determination of their absolute configurations. *Organic Letters*, **2007**, 9, 4447-50	6.2	65
17	A Novel N-linked Peptidocalix[4]arene Receptor for Anions. *Supramolecular Chemistry*, **2007**, 19, 531-535	1.8	2
16	Novel triptycene-based cylindrical macrotricyclic host: synthesis and complexation with paraquat derivatives. *Organic Letters*, **2006**, 8, 211-4	6.2	104
15	Azocalix[4]arene-based chromogenic anion probes. *New Journal of Chemistry*, **2006**, 30, 143	3.6	44
14	A programmed hydrogen bonding array self-assembles into a polymeric zipper-like architecture. *New Journal of Chemistry*, **2006**, 30, 140	3.6	9
13	Self-assembly of triptycene-based cylindrical macrotricyclic host with dibenzylammonium ions: construction of dendritic [3]pseudorotaxanes. *Organic Letters*, **2006**, 8, 1859-62	6.2	60
12	A highly efficient approach to [4]pseudocatenanes by threefold metathesis reactions of a triptycene-based tris[2]pseudorotaxane. *Journal of the American Chemical Society*, **2005**, 127, 13158-9	16.4	228
11	Facile synthesis and optical resolution of inherently chiral fluorescent calix[4]crowns: enantioselective recognition towards chiral leucinol. *Tetrahedron*, **2005**, 61, 8517-8528	2.4	65

10	A Highly Selective Fluorescent Chemosensor for H2PO4□Based on a Calix[4]arene Tetraamide Derivative. *European Journal of Organic Chemistry*, **2005**, 2005, 2468-2472	3.2	40
9	Synthesis and optical resolution of a series of inherently chiral calix[4]crowns with cone and partial cone conformations. *Chemistry - A European Journal*, **2005**, 11, 5917-28	4.8	49
8	The Design of a Highly Selective Fluorescent Chemosensor for Cu(II) within Wide pH Region and a Molecular Switch Controlled by pH. *Journal of Inclusion Phenomena and Macrocyclic Chemistry*, **2005**, 51, 165-171		8
7	Chemical Chromogenic Sensors Based on Calixarenes: Syntheses and Recognition Properties for Alkylamines. *Journal of Inclusion Phenomena and Macrocyclic Chemistry*, **2003**, 45, 27-34		7
6	Syntheses and Metal-ion Binding Properties of Calix[4]arene Derivatives Containing Soft Donor Atoms: Highly Selective Extraction Reagents for Ag+. *Journal of Inclusion Phenomena and Macrocyclic Chemistry*, **2001**, 40, 125-130		18
5	FUNCTIONALIZATION OF CALIX[4]- ARENES AT THE LOWER RIM AND SYNTHESIS OF CALIX[4](AZA)CROWNS. *Synthetic Communications*, **2001**, 31, 2829-2836	1.7	4
4	Crystal structure of 2,4?-biflavonoid. *Journal of Chemical Crystallography*, **1997**, 27, 215-218	0.5	
3	Chiral Thermally Activated Delayed Fluorescence-Active Macrocycles Displaying Efficient Circularly Polarized Electroluminescence. *CCS Chemistry*,1-9	7.2	5
2	Pagoda[5]arene with Large and Rigid Cavity for the Formation of 1:2 Host□Guest Complexes and Acid/Base-Responsive Crystalline Vapochromic Properties. *CCS Chemistry*,738-750	7.2	10
1	High-Performance Solution-Processed Nondoped Circularly Polarized OLEDs with Chiral Triptycene Scaffold-Based TADF Emitters Realizing Over 20% External Quantum Efficiency. *Advanced Functional Materials*,2106418	15.6	8