

Xuzhou Yan

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

123
papers

13,211
citations

55
h-index

114
g-index

136
ext. papers

15,210
ext. citations

12.6
avg, IF

6.7
L-index

#	Paper	IF	Citations
123	Mechanically interlocked networks cross-linked by a molecular necklace.. <i>Nature Communications</i> , 2022 , 13, 1393	17.4	3
122	Aggregation-induced Emission (AIE) Active Metal-Organic Coordination Complexes 2022 , 367-410		
121	Biomimetic Impact Protective Supramolecular Polymeric Materials Enabled by Quadruple H-Bonding. <i>Journal of the American Chemical Society</i> , 2021 , 143, 1162-1170	16.4	24
120	Light-emitting self-assembled metallacages. <i>National Science Review</i> , 2021 , 8, nwab045	10.8	10
119	Hierarchical Self-Assembly of Nanowires on the Surface by Metallo-Supramolecular Truncated Cuboctahedra. <i>Journal of the American Chemical Society</i> , 2021 , 143, 5826-5835	16.4	19
118	Conformational effect on fluorescence emission of tetraphenylethylene-based metallacycles. <i>Chinese Chemical Letters</i> , 2021 , 32, 1691-1695	8.1	6
117	A Mortise-and-Tenon Joint Inspired Mechanically Interlocked Network. <i>Angewandte Chemie</i> , 2021 , 133, 16360-16365	3.6	2
116	Drum-like Metallacages with Size-Dependent Fluorescence: Exploring the Photophysics of Tetraphenylethylene under Locked Conformations. <i>Journal of the American Chemical Society</i> , 2021 , 143, 9215-9221	16.4	16
115	A Mortise-and-Tenon Joint Inspired Mechanically Interlocked Network. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 16224-16229	16.4	13
114	Anti-Sandwich Structured Photo-Electronic Wound Dressing for Highly Efficient Bacterial Infection Therapy. <i>Small</i> , 2021 , 17, e2101858	11	8
113	Muscle-Mimetic Synergistic Covalent and Supramolecular Polymers: Phototriggered Formation Leads to Mechanical Performance Boost. <i>Journal of the American Chemical Society</i> , 2021 , 143, 902-911	16.4	26
112	Double-Layered Supramolecular Prisms Self-Assembled by Geometrically Non-equivalent Tetratopic Subunits. <i>Angewandte Chemie</i> , 2021 , 133, 1318-1325	3.6	4
111	Double-Layered Supramolecular Prisms Self-Assembled by Geometrically Non-equivalent Tetratopic Subunits. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 1298-1305	16.4	13
110	Polymers in Lithium-Ion and Lithium Metal Batteries. <i>Advanced Energy Materials</i> , 2021 , 11, 2003239	21.8	45
109	Synergistic combination of ACQ and AIE moieties to enhance the emission of hexagonal metallacycles. <i>Chemical Communications</i> , 2021 , 57, 11056-11059	5.8	0
108	Strain-insensitive intrinsically stretchable transistors and circuits. <i>Nature Electronics</i> , 2021 , 4, 143-150	28.4	56
107	Supramolecular polymer-assisted manipulation of triblock copolymers: understanding the relationships between microphase structures and mechanical properties. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 19619-19624	13	5

106	Synergistic covalent-and-supramolecular polymers connected by [2]pseudorotaxane moieties. <i>Chemical Communications</i> , 2021 , 57, 7374-7377	5.8	0
105	Mechanically Interlocked Vitrimers.. <i>Journal of the American Chemical Society</i> , 2021 ,	16.4	8
104	Synergistic Covalent and Supramolecular Polymers for Mechanically Robust but Dynamic Materials. <i>Angewandte Chemie</i> , 2020 , 132, 12237-12244	3.6	5
103	Engineering Supramolecular Polymer Conformation for Efficient Carbon Nanotube Sorting. <i>Small</i> , 2020 , 16, e2000923	11	2
102	Rh(II)-based Metal-Organic Polyhedra. <i>Chemistry Letters</i> , 2020 , 49, 659-665	1.7	5
101	Metal-organic polyhedra crosslinked supramolecular polymeric elastomers. <i>Chemical Communications</i> , 2020 , 56, 8031-8034	5.8	10
100	Fully stretchable active-matrix organic light-emitting electrochemical cell array. <i>Nature Communications</i> , 2020 , 11, 3362	17.4	47
99	Construction of Supramolecular Polymers Based on Host-Guest Recognition. <i>Chinese Journal of Chemistry</i> , 2020 , 38, 1473-1479	4.9	10
98	Trackable Supramolecular Fusion: Cage to Cage Transformation of Tetraphenylethylene-Based Metalloassemblies. <i>Angewandte Chemie</i> , 2020 , 132, 10099-10103	3.6	9
97	Trackable Supramolecular Fusion: Cage to Cage Transformation of Tetraphenylethylene-Based Metalloassemblies. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 10013-10017	16.4	35
96	A Self-Cross-Linking Supramolecular Polymer Network Enabled by Crown-Ether-Based Molecular Recognition. <i>Journal of the American Chemical Society</i> , 2020 , 142, 2051-2058	16.4	58
95	Woven Polymer Networks via the Topological Transformation of a [2]Catenane. <i>Journal of the American Chemical Society</i> , 2020 , 142, 14343-14349	16.4	16
94	Engineering orthogonality in the construction of an alternating rhomboidal copolymer with high fidelity via integrative self-sorting. <i>Polymer Chemistry</i> , 2020 , 11, 367-374	4.9	4
93	Synergistic Covalent and Supramolecular Polymers for Mechanically Robust but Dynamic Materials. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 12139-12146	16.4	30
92	A Dynamic, Electrolyte-Blocking, and Single-Ion-Conductive Network for Stable Lithium-Metal Anodes. <i>Joule</i> , 2019 , 3, 2761-2776	27.8	103
91	Reversible Ion-Conducting Switch in a Novel Single-Ion Supramolecular Hydrogel Enabled by Photoresponsive Host-Guest Molecular Recognition. <i>Advanced Materials</i> , 2019 , 31, e1807328	24	95
90	Endo- and Exo-Functionalized Tetraphenylethylene ML Nanospheres: Fluorescence Emission inside a Confined Space. <i>Journal of the American Chemical Society</i> , 2019 , 141, 9673-9679	16.4	72
89	A wireless body area sensor network based on stretchable passive tags. <i>Nature Electronics</i> , 2019 , 2, 361-368	36.8	258

88	Membrane intercalation-enhanced photodynamic inactivation of bacteria by a metallacycle and TAT-decorated virus coat protein. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 23437-23443	11.5	51
87	Skin-Inspired Electronics Enabled by Supramolecular Polymeric Materials. <i>CCS Chemistry</i> , 2019 , 1, 431-447.2		62
86	Decoupling of mechanical properties and ionic conductivity in supramolecular lithium ion conductors. <i>Nature Communications</i> , 2019 , 10, 5384	17.4	126
85	Aggregation-Induced Emission on Supramolecular Coordination Complexes Platforms 2019 , 163-194		1
84	Stretchable temperature-sensing circuits with strain suppression based on carbon nanotube transistors. <i>Nature Electronics</i> , 2018 , 1, 183-190	28.4	180
83	Ionic Conductive Self-Healing Binder for Low Cost Si Microparticles Anodes in Li-Ion Batteries. <i>Advanced Energy Materials</i> , 2018 , 8, 1703138	21.8	153
82	Alanine-Based Chiral Metallogels via Supramolecular Coordination Complex Platforms: Metallogelation Induced Chirality Transfer. <i>Journal of the American Chemical Society</i> , 2018 , 140, 3257-3263	16.4	72
81	Quadruple H-Bonding Cross-Linked Supramolecular Polymeric Materials as Substrates for Stretchable, Antitearing, and Self-Healable Thin Film Electrodes. <i>Journal of the American Chemical Society</i> , 2018 , 140, 5280-5289	16.4	312
80	Highly Tunable and Facile Synthesis of Uniform Carbon Flower Particles. <i>Journal of the American Chemical Society</i> , 2018 , 140, 10297-10304	16.4	55
79	Designing Boron Nitride Islands in Carbon Materials for Efficient Electrochemical Synthesis of Hydrogen Peroxide. <i>Journal of the American Chemical Society</i> , 2018 , 140, 7851-7859	16.4	184
78	Fluorescent Metallacage-Core Supramolecular Polymer Gel Formed by Orthogonal Metal Coordination and Host-Guest Interactions. <i>Journal of the American Chemical Society</i> , 2018 , 140, 7674-7680	16.4	182
77	An Elastic Autonomous Self-Healing Capacitive Sensor Based on a Dynamic Dual Crosslinked Chemical System. <i>Advanced Materials</i> , 2018 , 30, e1801435	24	185
76	Universal Selective Dispersion of Semiconducting Carbon Nanotubes from Commercial Sources Using a Supramolecular Polymer. <i>ACS Nano</i> , 2017 , 11, 5660-5669	16.7	34
75	Multicomponent Platinum(II) Cages with Tunable Emission and Amino Acid Sensing. <i>Journal of the American Chemical Society</i> , 2017 , 139, 5067-5074	16.4	230
74	Platinum(II)-Based Convex Trigonal-Prismatic Cages via Coordination-Driven Self-Assembly and C Encapsulation. <i>Inorganic Chemistry</i> , 2017 , 56, 12498-12504	5.1	21
73	Near-Infrared Emissive Discrete Platinum(II) Metallacycles: Synthesis and Application in Ammonia Detection. <i>Organic Letters</i> , 2017 , 19, 5728-5731	6.2	29
72	Investigating Limiting Factors in Stretchable All-Carbon Transistors for Reliable Stretchable Electronics. <i>ACS Nano</i> , 2017 , 11, 7925-7937	16.7	47
71	Tetraphenylethene-based highly emissive metallacage as a component of theranostic supramolecular nanoparticles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 13720-13725	11.5	127

70	Engineering Functionalization in a Supramolecular Polymer: Hierarchical Self-Organization of Triply Orthogonal Non-covalent Interactions on a Supramolecular Coordination Complex Platform. <i>Journal of the American Chemical Society</i> , 2016 , 138, 806-9	16.4	115
69	Light-Emitting Superstructures with Anion Effect: Coordination-Driven Self-Assembly of Pure Tetraphenylethylene Metallacycles and Metallacages. <i>Journal of the American Chemical Society</i> , 2016 , 138, 4580-8	16.4	178
68	Supramolecular Copolymer Constructed by Hierarchical Self-Assembly of Orthogonal Host-Guest, H-Bonding, and Coordination Interactions. <i>ACS Macro Letters</i> , 2016 , 5, 671-675	6.6	40
67	Hierarchical Self-Assembly of Responsive Organoplatinum(II) Metallacycle-TMV Complexes with Turn-On Fluorescence. <i>Journal of the American Chemical Society</i> , 2016 , 138, 12033-6	16.4	75
66	Photophysical Properties of Organoplatinum(II) Compounds and Derived Self-Assembled Metallacycles and Metallacages: Fluorescence and its Applications. <i>Accounts of Chemical Research</i> , 2016 , 49, 2527-2539	24.3	276
65	Immobilizing Tetraphenylethylene into Fused Metallacycles: Shape Effects on Fluorescence Emission. <i>Journal of the American Chemical Society</i> , 2016 , 138, 13131-13134	16.4	66
64	Fluorescent metallacycle-cored polymers via covalent linkage and their use as contrast agents for cell imaging. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 11100-11105	11.5	95
63	[n]Pseudorotaxanes constructed by a bis(p-phenylene)-34-crown-10-based cryptand: different binding behaviors induced by minor structural changes of guests. <i>RSC Advances</i> , 2015 , 5, 38906-38909	3.7	3
62	Highly emissive platinum(II) metallacages. <i>Nature Chemistry</i> , 2015 , 7, 342-8	17.6	491
61	Coordination-Driven Self-Assembly of Fullerene-Functionalized Pt(II) Metallacycles. <i>Organometallics</i> , 2015 , 34, 4813-4815	3.8	11
60	A Suite of Tetraphenylethylene-Based Discrete Organoplatinum(II) Metallacycles: Controllable Structure and Stoichiometry, Aggregation-Induced Emission, and Nitroaromatics Sensing. <i>Journal of the American Chemical Society</i> , 2015 , 137, 15276-86	16.4	216
59	Supramolecular polymers constructed by orthogonal self-assembly based on host-guest and metal-ligand interactions. <i>Chemical Society Reviews</i> , 2015 , 44, 815-32	58.5	420
58	Development of Pseudorotaxanes and Rotaxanes: From Synthesis to Stimuli-Responsive Motions to Applications. <i>Chemical Reviews</i> , 2015 , 115, 7398-501	68.1	574
57	A responsive supramolecular metallogel constructed by coordination-driven self-assembly of a crown ether-based [3]pseudorotaxane and a diplatinum(II) acceptor. <i>Dalton Transactions</i> , 2015 , 44, 11264-8	4.3	10
56	Host-guest complexation induced emission: a pillar[6]arene-based complex with intense fluorescence in dilute solution. <i>Chemical Communications</i> , 2014 , 50, 5017-9	5.8	106
55	Responsive supramolecular polymer metallogel constructed by orthogonal coordination-driven self-assembly and host/guest interactions. <i>Journal of the American Chemical Society</i> , 2014 , 136, 4460-3	16.4	245
54	Stimuli-responsive host-guest systems based on the recognition of cryptands by organic guests. <i>Accounts of Chemical Research</i> , 2014 , 47, 1995-2005	24.3	254
53	A responsive supramolecular polymer formed by orthogonal metal-coordination and cryptand-based host-guest interaction. <i>Chemical Communications</i> , 2014 , 50, 3973-5	5.8	31

52	A discrete amphiphilic organoplatinum(II) metallacycle with tunable lower critical solution temperature behavior. <i>Journal of the American Chemical Society</i> , 2014 , 136, 15497-500	16.4	88
51	Metallosupramolecular poly[2]pseudorotaxane constructed by metal coordination and crown-ether-based molecular recognition. <i>Organic Letters</i> , 2014 , 16, 126-9	6.2	25
50	Self-assembly of triangular and hexagonal molecular necklaces. <i>Journal of the American Chemical Society</i> , 2014 , 136, 5908-11	16.4	121
49	Supramolecular side-chain poly[2]pseudorotaxanes formed by orthogonal coordination-driven self-assembly and crown-ether-based host-guest interactions. <i>Organic Letters</i> , 2014 , 16, 2850-3	6.2	21
48	Responsive cross-linked supramolecular polymer network: hierarchical supramolecular polymerization driven by cryptand-based molecular recognition and metal coordination. <i>Polymer Chemistry</i> , 2014 , 5, 3972-3976	4.9	17
47	Reversible formation of a poly[3]rotaxane based on photo dimerization of an anthracene-capped [3]rotaxane. <i>Chemical Communications</i> , 2014 , 50, 14105-8	5.8	27
46	Photoinduced transformations of stiff-stilbene-based discrete metallacycles to metallosupramolecular polymers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 8717-22	11.5	110
45	Benzo-21-crown-7/secondary ammonium salt [2]rotaxanes with fluoro/chlorocarbon blocking groups. <i>Organic Letters</i> , 2013 , 15, 3538-41	6.2	12
44	A self-healing supramolecular polymer gel with stimuli-responsiveness constructed by crown ether based molecular recognition. <i>Polymer Chemistry</i> , 2013 , 4, 3312	4.9	116
43	Two 2 : 3 copillar[5]arene constitutional isomers: syntheses, crystal structures and host-guest complexation of their derivatives with dicarboxylic acid sodium salts in water. <i>Chemical Communications</i> , 2013 , 49, 1070-2	5.8	38
42	A dynamic [1]catenane with pH-responsiveness formed via threading-followed-by-complexation. <i>Chemical Communications</i> , 2013 , 49, 2512-4	5.8	60
41	Crown ether-based cryptand/tropylium cation inclusion complexes. <i>Tetrahedron</i> , 2013 , 69, 9573-9579	2.4	10
40	Benzo-21-crown-7-based [1]rotaxanes: syntheses, X-ray crystal structures, and dynamic characteristics. <i>Organic Letters</i> , 2013 , 15, 5350-3	6.2	21
39	Dendronized organoplatinum(II) metallacyclic polymers constructed by hierarchical coordination-driven self-assembly and hydrogen-bonding interfaces. <i>Journal of the American Chemical Society</i> , 2013 , 135, 16813-6	16.4	127
38	Supramolecular polymers with tunable topologies via hierarchical coordination-driven self-assembly and hydrogen bonding interfaces. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 15585-90	11.5	210
37	Three protocols for the formation of a [3]pseudorotaxane via orthogonal cryptand-based host-guest recognition and coordination-driven self-assembly. <i>Organic Letters</i> , 2013 , 15, 4984-7	6.2	17
36	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, 14036-9	16.4	202
35	A pillar[6]arene with mono(ethylene oxide) substituents: synthesis and complexation with diquat. <i>Chemical Communications</i> , 2013 , 49, 8175-7	5.8	36

34	Taco complex-templated dynamic clipping to cryptand-based [2]rotaxane- and [2]catenane-type mechanically interlocked structures. <i>RSC Advances</i> , 2013 , 3, 21289	3.7	13
33	Synthesis of a water-soluble bis(m-phenylene)-32-crown-10-based cryptand and its pH-responsive binding to a paraquat derivative. <i>Chemical Communications</i> , 2013 , 49, 1178-80	5.8	32
32	A supramolecular cross-linked conjugated polymer network for multiple fluorescent sensing. <i>Journal of the American Chemical Society</i> , 2013 , 135, 74-7	16.4	359
31	Two protocols for the preparation of [2]rotaxanes based on the dibenzo-24-crown-8-based cryptand/paraquat recognition motif. <i>Tetrahedron Letters</i> , 2013 , 54, 6640-6643	2	7
30	A water-soluble, shape-persistent, mouldable supramolecular polymer with redox-responsiveness in the presence of a molecular chaperone. <i>Polymer Chemistry</i> , 2013 , 4, 2767	4.9	16
29	Integrated motion of molecular machines in supramolecular polymeric scaffolds. <i>Polymer Chemistry</i> , 2013 , 4, 2395	4.9	42
28	Threaded structures based on the benzo-21-crown-7/secondary ammonium salt recognition motif using esters as end groups. <i>Organic and Biomolecular Chemistry</i> , 2013 , 11, 3880-5	3.9	4
27	Characterization of supramolecular gels. <i>Chemical Society Reviews</i> , 2013 , 42, 6697-722	58.5	454
26	Chemically-responsive complexation of a diquatery salt with bis(m-phenylene)-32-crown-10 derivatives and host substituent effect on complexation geometry. <i>Organic Letters</i> , 2013 , 15, 534-7	6.2	15
25	A multiresponsive, shape-persistent, and elastic supramolecular polymer network gel constructed by orthogonal self-assembly. <i>Advanced Materials</i> , 2012 , 24, 362-9	24	622
24	per-Hydroxylated pillar[6]arene: synthesis, X-ray crystal structure, and host-guest complexation. <i>Organic Letters</i> , 2012 , 14, 1532-5	6.2	160
23	Preparation of a Diblock Supramolecular Copolymer via Self-Sorting Organization. <i>Macromolecules</i> , 2012 , 45, 9070-9075	5.5	28
22	A chemical-responsive bis(m-phenylene)-32-crown-10/2,7-diazapyrenium salt [2]pseudorotaxane. <i>Chemical Communications</i> , 2012 , 48, 8201-3	5.8	20
21	Supramolecular Micelles Constructed by Crown Ether-Based Molecular Recognition. <i>Macromolecules</i> , 2012 , 45, 6457-6463	5.5	65
20	[n]Pseudorotaxanes (n = 2, 3) from Self-Assembly of Two Cryptands and a 1,2-Bis(4-pyridinium)ethane Derivative. <i>European Journal of Organic Chemistry</i> , 2012 , 2012, 6351-6356	3.2	16
19	Pseudorotaxanes from self-assembly of two crown ether-based cryptands and a 1,2-bis(pyridinium)ethane derivative. <i>Chemical Communications</i> , 2012 , 48, 4968-70	5.8	34
18	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	2.4	62
17	Adjustable supramolecular polymer microstructures fabricated by the breath figure method. <i>Polymer Chemistry</i> , 2012 , 3, 458-462	4.9	61

16	Pillar[6]arene-based photoresponsive host-guest complexation. <i>Journal of the American Chemical Society</i> , 2012 , 134, 8711-7	16.4	408
15	Dual-responsive crown ether-based supramolecular chain extended polymers. <i>Polymer Chemistry</i> , 2012 , 3, 3175	4.9	28
14	pH-responsive supramolecular polymerization in aqueous media driven by electrostatic attraction-enhanced crown ether-based molecular recognition. <i>Macromolecular Rapid Communications</i> , 2012 , 33, 1197-202	4.8	30
13	Stimuli-responsive supramolecular polymeric materials. <i>Chemical Society Reviews</i> , 2012 , 41, 6042-65	58.5	1252
12	A crown ether appended super gelator with multiple stimulus responsiveness. <i>Advanced Materials</i> , 2012 , 24, 3191-5	24	244
11	Self-Healing Supramolecular Gels Formed by Crown Ether Based Host-Guest Interactions. <i>Angewandte Chemie</i> , 2012 , 124, 7117-7121	3.6	189
10	Self-healing supramolecular gels formed by crown ether based host-guest interactions. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 7011-5	16.4	589
9	A supramolecular polymer blend containing two different supramolecular polymers through self-sorting organization of two heteroditopic monomers. <i>Chemistry - A European Journal</i> , 2012 , 18, 4195-9	4.8	40
8	[2]Pseudorotaxanes based on the recognition of cryptands to vinylogous viologens. <i>Organic Letters</i> , 2011 , 13, 6370-3	6.2	46
7	A Dual-Responsive Supramolecular Polymer Gel Formed by Crown Ether Based Molecular Recognition. <i>Angewandte Chemie</i> , 2011 , 123, 1945-1949	3.6	89
6	A dual-responsive supramolecular polymer gel formed by crown ether based molecular recognition. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 1905-9	16.4	423
5	pH-responsive assembly and disassembly of a supramolecular cryptand-based pseudorotaxane driven by π -stacking interaction. <i>Chemical Communications</i> , 2011 , 47, 9840-2	5.8	52
4	Supramolecular polymer nanofibers via electrospinning of a heteroditopic monomer. <i>Chemical Communications</i> , 2011 , 47, 7086-8	5.8	121
3	Photoresponsive host-guest systems based on a new azobenzene-containing cryptand. <i>Organic Letters</i> , 2010 , 12, 2558-61	6.2	86
2	Improved Pseudorotaxane and Catenane Formation from a Derivative of Bis(m-phenylene)-32-crown-10. <i>European Journal of Organic Chemistry</i> , 2010 , 2010, 6798-6803	3.2	18
1	Anion-assisted complexation of paraquat by cryptands based on bis(m-phenylene)-[32]crown-10. <i>Chemistry - A European Journal</i> , 2010 , 16, 6088-98	4.8	45