Xuzhou Yan

List of Publications by Year
in descending order

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127 papers	16,915 citations	19608 61 h-index	14156 128 g-index
136 all docs	136 docs citations	136 times ranked	13569 citing authors

#	Article	IF	Citations
1	Stimuli-responsive supramolecular polymeric materials. Chemical Society Reviews, 2012, 41, 6042.	18.7	1,440
2	Development of Pseudorotaxanes and Rotaxanes: From Synthesis to Stimuli-Responsive Motions to Applications. Chemical Reviews, 2015, 115, 7398-7501.	23.0	719
3	A Multiresponsive, Shapeâ€Persistent, and Elastic Supramolecular Polymer Network Gel Constructed by Orthogonal Selfâ€Assembly. Advanced Materials, 2012, 24, 362-369.	11.1	667
4	Selfâ€Healing Supramolecular Gels Formed by Crown Ether Based Hostâ€“Guest Interactions. Angewandte Chemie - International Edition, 2012, 51, 7011-7015.	7.2	666
5	Highly emissive platinum(II) metallacages. Nature Chemistry, 2015, 7, 342-348.	6.6	597
6	Characterization of supramolecular gels. Chemical Society Reviews, 2013, 42, 6697.	18.7	529
7	Supramolecular polymers constructed by orthogonal self-assembly based on hostâ€“guest and metalâ€“ligand interactions. Chemical Society Reviews, 2015, 44, 815-832.	18.7	504
8	Quadruple H-Bonding Cross-Linked Supramolecular Polymeric Materials as Substrates for Stretchable, Antitearing, and Self-Healable Thin Film Electrodes. Journal of the American Chemical Society, 2018, 140, 5280-5289.	6.6	464
9	A Dualâ€Responsive Supramolecular Polymer Gel Formed by Crown Ether Based Molecular Recognition. Angewandte Chemie - International Edition, 2011, 50, 1905-1909.	7.2	447
10	Pillar[6]arene-Based Photoresponsive Hostâ€“Guest Complexation. Journal of the American Chemical Society, 2012, 134, 8711-8717.	6.6	446
11	A wireless body area sensor network based on stretchable passive tags. Nature Electronics, 2019, 2, 361-368.	13.1	421
12	A Supramolecular Cross-Linked Conjugated Polymer Network for Multiple Fluorescent Sensing. Journal of the American Chemical Society, 2013, 135, 74-77.	6.6	395
13	Photophysical Properties of Organoplatinum(II) Compounds and Derived Self-Assembled Metallacycles and Metallacages: Fluorescence and its Applications. Accounts of Chemical Research, 2016, 49, 2527-2539.	7.6	334
14	Designing Boron Nitride Islands in Carbon Materials for Efficient Electrochemical Synthesis of Hydrogen Peroxide. Journal of the American Chemical Society, 2018, 140, 7851-7859.	6.6	310
15	Stimuli-Responsive Hostâ€“Guest Systems Based on the Recognition of Cryptands by Organic Guests. Accounts of Chemical Research, 2014, 47, 1995-2005.	7.6	301
16	Multicomponent Platinum(II) Cages with Tunable Emission and Amino Acid Sensing. Journal of the American Chemical Society, 2017, 139, 5067-5074.	6.6	301
17	An Elastic Autonomous Selfâ€Healing Capacitive Sensor Based on a Dynamic Dual Crosslinked Chemical System. Advanced Materials, 2018, 30, e1801435.	11.1	280
18	Responsive Supramolecular Polymer Metallogel Constructed by Orthogonal Coordination-Driven Self-Assembly and Host/Guest Interactions. Journal of the American Chemical Society, 2014, 136, 4460-4463.	6.6	265

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19	Stretchable temperature-sensing circuits with strain suppression based on carbon nanotube transistors. Nature Electronics, 2018, 1, 183-190.	13.1	263
20	A Suite of Tetraphenylethylene-Based Discrete Organoplatinum(II) Metallacycles: Controllable Structure and Stoichiometry, Aggregation-Induced Emission, and Nitroaromatics Sensing. Journal of the American Chemical Society, 2015, 137, 15276-15286.	6.6	260
21	A Crown Ether Appended Super Gelator with Multiple Stimulus Responsiveness. Advanced Materials, 2012, 24, 3191-3195.	11.1	254
22	Decoupling of mechanical properties and ionic conductivity in supramolecular lithium ion conductors. Nature Communications, 2019, 10, 5384.	5.8	249
23	Fluorescent Metallacage-Core Supramolecular Polymer Gel Formed by Orthogonal Metal Coordination and Hostâ€“Guest Interactions. Journal of the American Chemical Society, 2018, 140, 7674-7680.	6.6	242
24	Ionically Conductive Selfâ€Healing Binder for Low Cost Si Microparticles Anodes in Liâ€Ion Batteries. Advanced Energy Materials, 2018, 8, 1703138.	10.2	224
25	Supramolecular polymers with tunable topologies via hierarchical coordination-driven self-assembly and hydrogen bonding interfaces. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 15585-15590.	3.3	221
26	Hierarchical Self-Assembly: Well-Defined Supramolecular Nanostructures and Metallohydrogels via Amphiphilic Discrete Organoplatinum(II) Metallacycles. Journal of the American Chemical Society, 2013, 135, 14036-14039.	6.6	216
27	Light-Emitting Superstructures with Anion Effect: Coordination-Driven Self-Assembly of Pure Tetraphenylethylene Metallacycles and Metallacages. Journal of the American Chemical Society, 2016, 138, 4580-4588.	6.6	211
28	per-Hydroxylated Pillar[6]arene: Synthesis, X-ray Crystal Structure, and Hostâ€“Guest Complexation. Organic Letters, 2012, 14, 1532-1535.	2.4	181
29	A Dynamic, Electrolyte-Blocking, and Single-Ion-Conductive Network for Stable Lithium-Metal Anodes. Joule, 2019, 3, 2761-2776.	11.7	176
30	Strain-insensitive intrinsically stretchable transistors and circuits. Nature Electronics, 2021, 4, 143-150.	13.1	170
31	Tetraphenylethene-based highly emissive metallacage as a component of theranostic supramolecular nanoparticles. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 13720-13725.	3.3	161
32	Polymers in Lithiumâ€Ion and Lithium Metal Batteries. Advanced Energy Materials, 2021, 11, 2003239.	10.2	160
33	Reversible Ionâ€Conducting Switch in a Novel Singleâ€Ion Supramolecular Hydrogel Enabled by Photoresponsive Hostâ€“Guest Molecular Recognition. Advanced Materials, 2019, 31, e1807328.	11.1	144
34	Self-Assembly of Triangular and Hexagonal Molecular Necklaces. Journal of the American Chemical Society, 2014, 136, 5908-5911.	6.6	134
35	Engineering Functionalization in a Supramolecular Polymer: Hierarchical Self-Organization of Triply Orthogonal Non-covalent Interactions on a Supramolecular Coordination Complex Platform. Journal of the American Chemical Society, 2016, 138, 806-809.	6.6	134
36	Supramolecular polymer nanofibers via electrospinning of a heteroditopic monomer. Chemical Communications, 2011, 47, 7086.	2.2	131

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37	A self-healing supramolecular polymer gel with stimuli-responsiveness constructed by crown ether based molecular recognition. Polymer Chemistry, 2013, 4, 3312.	1.9	129
38	Dendronized Organoplatinum(II) Metallacyclic Polymers Constructed by Hierarchical Coordination-Driven Self-Assembly and Hydrogen-Bonding Interfaces. Journal of the American Chemical Society, 2013, 135, 16813-16816.	6.6	129
39	Photoinduced transformations of stiff-stilbene-based discrete metallacycles to metallosupramolecular polymers. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 8717-8722.	3.3	127
40	Hostâ€“guest complexation induced emission: a pillar[6]arene-based complex with intense fluorescence in dilute solution. Chemical Communications, 2014, 50, 5017.	2.2	119
41	Skin-Inspired Electronics Enabled by Supramolecular Polymeric Materials. CCS Chemistry, 2019, 1, 431-447.	4.6	118
42	Fluorescent metallacycle-cored polymers via covalent linkage and their use as contrast agents for cell imaging. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 11100-11105.	3.3	112
43	A Self-Cross-Linking Supramolecular Polymer Network Enabled by Crown-Ether-Based Molecular Recognition. Journal of the American Chemical Society, 2020, 142, 2051-2058.	6.6	108
44	Fully stretchable active-matrix organic light-emitting electrochemical cell array. Nature Communications, 2020, 11, 3362.	5.8	106
45	Endo- and Exo-Functionalized Tetraphenylethylene M₁₂L₂₄ Nanospheres: Fluorescence Emission inside a Confined Space. Journal of the American Chemical Society, 2019, 141, 9673-9679.	6.6	103
46	A Discrete Amphiphilic Organoplatinum(II) Metallacycle with Tunable Lower Critical Solution Temperature Behavior. Journal of the American Chemical Society, 2014, 136, 15497-15500.	6.6	101
47	Photoresponsive Hostâ^'Guest Systems Based on a New Azobenzene-Containing Crytpand. Organic Letters, 2010, 12, 2558-2561.	2.4	100
48	Hierarchical Self-Assembly of Responsive Organoplatinum(II) Metallacycleâ€“TMV Complexes with Turn-On Fluorescence. Journal of the American Chemical Society, 2016, 138, 12033-12036.	6.6	91
49	Alanine-Based Chiral Metallogels via Supramolecular Coordination Complex Platforms: Metallogelation Induced Chirality Transfer. Journal of the American Chemical Society, 2018, 140, 3257-3263.	6.6	91
50	Mechanically Interlocked Vitrimers. Journal of the American Chemical Society, 2022, 144, 872-882.	6.6	89
51	Highly Tunable and Facile Synthesis of Uniform Carbon Flower Particles. Journal of the American Chemical Society, 2018, 140, 10297-10304.	6.6	86
52	Biomimetic Impact Protective Supramolecular Polymeric Materials Enabled by Quadruple H-Bonding. Journal of the American Chemical Society, 2021, 143, 1162-1170.	6.6	85
53	Immobilizing Tetraphenylethylene into Fused Metallacycles: Shape Effects on Fluorescence Emission. Journal of the American Chemical Society, 2016, 138, 13131-13134.	6.6	80
54	Membrane intercalation-enhanced photodynamic inactivation of bacteria by a metallacycle and TAT-decorated virus coat protein. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 23437-23443.	3.3	78

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55	Supramolecular Micelles Constructed by Crown Ether-Based Molecular Recognition. Macromolecules, 2012, 45, 6457-6463.	2.2	71
56	Muscle-Mimetic Synergistic Covalent and Supramolecular Polymers: Phototriggered Formation Leads to Mechanical Performance Boost. Journal of the American Chemical Society, 2021, 143, 902-911.	6.6	71
57	Novel [2]rotaxanes based on the recognition of pillar[5]arenes to an alkane functionalized with triazole moieties. Tetrahedron, 2012, 68, 9179-9185.	1.0	68
58	A dynamic [1]catenane with pH-responsiveness formed via threading-followed-by-complexation. Chemical Communications, 2013, 49, 2512.	2.2	68
59	Adjustable supramolecular polymer microstructures fabricated by the breath figure method. Polymer Chemistry, 2012, 3, 458-462.	1.9	65
60	Synergistic Covalent and Supramolecular Polymers for Mechanically Robust but Dynamic Materials. Angewandte Chemie - International Edition, 2020, 59, 12139-12146.	7.2	63
61	Trackable Supramolecular Fusion: Cage to Cage Transformation of Tetraphenylethyleneâ€Based Metalloassemblies. Angewandte Chemie - International Edition, 2020, 59, 10013-10017.	7.2	57
62	pH-responsive assembly and disassembly of a supramolecular cryptand-based pseudorotaxane driven by Ï€â€“Ï€ stacking interaction. Chemical Communications, 2011, 47, 9840.	2.2	56
63	Drum-like Metallacages with Size-Dependent Fluorescence: Exploring the Photophysics of Tetraphenylethylene under Locked Conformations. Journal of the American Chemical Society, 2021, 143, 9215-9221.	6.6	56
64	A Mortiseâ€andâ€Tenon Joint Inspired Mechanically Interlocked Network. Angewandte Chemie - International Edition, 2021, 60, 16224-16229.	7.2	55
65	Hierarchical Self-Assembly of Nanowires on the Surface by Metallo-Supramolecular Truncated Cuboctahedra. Journal of the American Chemical Society, 2021, 143, 5826-5835.	6.6	53
66	Investigating Limiting Factors in Stretchable All-Carbon Transistors for Reliable Stretchable Electronics. ACS Nano, 2017, 11, 7925-7937.	7.3	52
67	Mechanically interlocked networks cross-linked by a molecular necklace. Nature Communications, 2022, 13, 1393.	5.8	52
68	[2]Pseudorotaxanes Based on the Recognition of Cryptands to Vinylogous Viologens. Organic Letters, 2011, 13, 6370-6373.	2.4	51
69	Anionâ€Assisted Complexation of Paraquat by Cryptands Based on Bis(mâ€phenylene)â€[32]crownâ€10. Chemistry - A European Journal, 2010, 16, 6088-6098.	1.7	48
70	Universal Selective Dispersion of Semiconducting Carbon Nanotubes from Commercial Sources Using a Supramolecular Polymer. ACS Nano, 2017, 11, 5660-5669.	7.3	47
71	Supramolecular Copolymer Constructed by Hierarchical Self-Assembly of Orthogonal Hostâ€“Guest, H-Bonding, and Coordination Interactions. ACS Macro Letters, 2016, 5, 671-675.	2.3	46
72	Near-Infrared Emissive Discrete Platinum(II) Metallacycles: Synthesis and Application in Ammonia Detection. Organic Letters, 2017, 19, 5728-5731.	2.4	45

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73	Light-emitting self-assembled metallacages. National Science Review, 2021, 8, nwab045.	4.6	45
74	A Supramolecular Polymer Blend Containing Two Different Supramolecular Polymers through Selfâ€Sorting Organization of Two Heteroditopic Monomers. Chemistry - A European Journal, 2012, 18, 4195-4199.	1.7	44
75	Integrated motion of molecular machines in supramolecular polymeric scaffolds. Polymer Chemistry, 2013, 4, 2395.	1.9	42
76	Pseudorotaxanes from self-assembly of two crown ether-based cryptands and a 1,2-bis(pyridinium) ethane derivative. Chemical Communications, 2012, 48, 4968.	2.2	41
77	A pillar[6]arene with mono(ethylene oxide) substituents: synthesis and complexation with diquat. Chemical Communications, 2013, 49, 8175.	2.2	41
78	Two 2â€‰:â€‰3 copillar[5]arene constitutional isomers: syntheses, crystal structures and hostâ€“guest complexation of their derivatives with dicarboxylic acid sodium salts in water. Chemical Communications, 2013, 49, 1070.	2.2	40
79	Woven Polymer Networks via the Topological Transformation of a [2]Catenane. Journal of the American Chemical Society, 2020, 142, 14343-14349.	6.6	37
80	Synthesis of a water-soluble bis(m-phenylene)-32-crown-10-based cryptand and its pH-responsive binding to a paraquat derivative. Chemical Communications, 2013, 49, 1178.	2.2	35
81	pHâ€Responsive Supramolecular Polymerization in Aqueous Media Driven by Electrostatic Attractionâ€Enhanced Crown Etherâ€Based Molecular Recognition. Macromolecular Rapid Communications, 2012, 33, 1197-1202.	2.0	32
82	A responsive supramolecular polymer formed by orthogonal metal-coordination and cryptand-based hostâ€“guest interaction. Chemical Communications, 2014, 50, 3973-3975.	2.2	32
83	Reversible formation of a poly[3]rotaxane based on photo dimerization of an anthracene-capped [3]rotaxane. Chemical Communications, 2014, 50, 14105-14108.	2.2	31
84	Doubleâ€Layered Supramolecular Prisms Selfâ€Assembled by Geometrically Nonâ€equivalent Tetratopic Subunits. Angewandte Chemie - International Edition, 2021, 60, 1298-1305.	7.2	31
85	Dual-responsive crown ether-based supramolecular chain extended polymers. Polymer Chemistry, 2012, 3, 3175.	1.9	30
86	Preparation of a Diblock Supramolecular Copolymer via Self-Sorting Organization. Macromolecules, 2012, 45, 9070-9075.	2.2	29
87	Metalâ€“organic polyhedra crosslinked supramolecular polymeric elastomers. Chemical Communications, 2020, 56, 8031-8034.	2.2	27
88	Weldable and closed-loop recyclable monolithic dynamic covalent polymer aerogels. National Science Review, 2022, 9, .	4.6	27
89	Mechanically Interlocked Aerogels with Densely Rotaxanated Backbones. Journal of the American Chemical Society, 2022, 144, 11434-11443.	6.6	27
90	Metallosupramolecular Poly[2]pseudorotaxane Constructed by Metal Coordination and Crown-Ether-Based Molecular Recognition. Organic Letters, 2014, 16, 126-129.	2.4	26

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91	Platinum(II)-Based Convex Trigonal-Prismatic Cages via Coordination-Driven Self-Assembly and C₆₀ Encapsulation. Inorganic Chemistry, 2017, 56, 12498-12504.	1.9	26
92	Benzo-21-crown-7-Based [1]Rotaxanes: Syntheses, X-ray Crystal Structures, and Dynamic Characteristics. Organic Letters, 2013, 15, 5350-5353.	2.4	25
93	Supramolecular polymer-assisted manipulation of triblock copolymers: understanding the relationships between microphase structures and mechanical properties. Journal of Materials Chemistry A, 2021, 9, 19619-19624.	5.2	23
94	Construction of Supramolecular Polymers Based on <scp>Hostâ€Guest</scp> Recognition^{â€}. Chinese Journal of Chemistry, 2020, 38, 1473-1479.	2.6	22
95	Conformational effect on fluorescence emission of tetraphenylethylene-based metallacycles. Chinese Chemical Letters, 2021, 32, 1691-1695.	4.8	22
96	Antiâ€Sandwich Structured Photoâ€Electronic Wound Dressing for Highly Efficient Bacterial Infection Therapy. Small, 2021, 17, e2101858.	5.2	22
97	Improved Pseudorotaxane and Catenane Formation from a Derivative of Bis(mâ€phenylene)â€32â€crownâ€10. European Journal of Organic Chemistry, 2010, 2010, 6798-6803.	1.2	21
98	Supramolecular Side-Chain Poly[2]pseudorotaxanes Formed by Orthogonal Coordination-Driven Self-Assembly and Crown-Ether-Based Hostâ€“Guest Interactions. Organic Letters, 2014, 16, 2850-2853.	2.4	21
99	A chemical-responsive bis(m-phenylene)-32-crown-10/2,7-diazapyrenium salt [2]pseudorotaxane. Chemical Communications, 2012, 48, 8201.	2.2	20
100	[n]Pseudorotaxanes (n = 2, 3) from Selfâ€Assembly of Two Cryptands and a 1,2â€Bis(4â€pyridinium)ethane Derivative. European Journal of Organic Chemistry, 2012, 2012, 6351-6356.	1.2	18
101	Three Protocols for the Formation of a [3]Pseudorotaxane via Orthogonal Cryptand-Based Hostâ€“Guest Recognition and Coordination-Driven Self-Assembly. Organic Letters, 2013, 15, 4984-4987.	2.4	18
102	A water-soluble, shape-persistent, mouldable supramolecular polymer with redox-responsiveness in the presence of a molecular chaperone. Polymer Chemistry, 2013, 4, 2767.	1.9	18
103	Thermoâ€responsive topological metamorphosis in covalentâ€andâ€supramolecular polymer architectures. Aggregate, 2022, 3, .	5.2	18
104	Responsive cross-linked supramolecular polymer network: hierarchical supramolecular polymerization driven by cryptand-based molecular recognition and metal coordination. Polymer Chemistry, 2014, 5, 3972-3976.	1.9	17
105	Taco complex-templated dynamic clipping to cryptand-based [2]rotaxane- and [2]catenane-type mechanically interlocked structures. RSC Advances, 2013, 3, 21289.	1.7	15
106	Chemically-Responsive Complexation of A Diquaternary Salt with Bis(m-phenylene)-32-Crown-10 Derivatives and Host Substituent Effect on Complexation Geometry. Organic Letters, 2013, 15, 534-537.	2.4	15
107	Benzo-21-Crown-7/Secondary Ammonium Salt [2]Rotaxanes with Fluoro/Chlorocarbon Blocking Groups. Organic Letters, 2013, 15, 3538-3541.	2.4	14
108	Supramolecular polymer networks crosslinked by crown ether-based hostâ€“guest recognition: dynamic materials with tailored mechanical properties in the bulk. Polymer Chemistry, 2022, 13, 1253-1259.	1.9	14

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109	Crown ether-based cryptand/tropylium cation inclusion complexes. Tetrahedron, 2013, 69, 9573-9579.	1.0	12
110	Coordination-Driven Self-Assembly of Fullerene-Functionalized Pt(II) Metallacycles. Organometallics, 2015, 34, 4813-4815.	1.1	12
111	Engineering orthogonality in the construction of an alternating rhomboidal copolymer with high fidelity via integrative self-sorting. Polymer Chemistry, 2020, 11, 367-374.	1.9	12
112	Rh(II)-based Metalâ€“Organic Polyhedra. Chemistry Letters, 2020, 49, 659-665.	0.7	12
113	A responsive supramolecular metallogel constructed by coordination-driven self-assembly of a crown ether-based [3]pseudorotaxane and a diplatinum(<scp>ii</scp>) acceptor. Dalton Transactions, 2015, 44, 11264-11268.	1.6	11
114	Trackable Supramolecular Fusion: Cage to Cage Transformation of Tetraphenylethyleneâ€Based Metalloassemblies. Angewandte Chemie, 2020, 132, 10099-10103.	1.6	11
115	Multiscale supramolecular polymer network with microphase-separated structure enabled by hostâ"guest self-sorting recognitions. Chemical Engineering Journal, 2022, 450, 138135.	6.6	11
116	Synergistic Covalent and Supramolecular Polymers for Mechanically Robust but Dynamic Materials. Angewandte Chemie, 2020, 132, 12237-12244.	1.6	10
117	Synergistic covalent-and-supramolecular polymers connected by [2]pseudorotaxane moieties. Chemical Communications, 2021, 57, 7374-7377.	2.2	10
118	Doubleâ€Layered Supramolecular Prisms Selfâ€Assembled by Geometrically Nonâ€equivalent Tetratopic Subunits. Angewandte Chemie, 2021, 133, 1318-1325.	1.6	8
119	Synergistic combination of ACQ and AIE moieties to enhance the emission of hexagonal metallacycles. Chemical Communications, 2021, 57, 11056-11059.	2.2	8
120	A Mortiseâ€andâ€Tenon Joint Inspired Mechanically Interlocked Network. Angewandte Chemie, 2021, 133, 16360-16365.	1.6	8
121	Two protocols for the preparation of [2]rotaxanes based on the dibenzo-24-crown-8-based cryptand/paraquat recognition motif. Tetrahedron Letters, 2013, 54, 6640-6643.	0.7	7
122	Threaded structures based on the benzo-21-crown-7/secondary ammonium salt recognition motif using esters as end groups. Organic and Biomolecular Chemistry, 2013, 11, 3880.	1.5	5
123	Stretchable Poly[2]rotaxane Elastomers. Fundamental Research, 2022, , .	1.6	5
124	Engineering Supramolecular Polymer Conformation for Efficient Carbon Nanotube Sorting. Small, 2020, 16, e2000923.	5.2	4
125	Complexation of Paraquat and Diazapyrenium Derivatives with Dipyrido[30]crown-10. European Journal of Organic Chemistry, 2012, 2012, n/a-n/a.	1.2	3
126	[n]Pseudorotaxanes constructed by a bis(p-phenylene)-34-crown-10-based cryptand: different binding behaviors induced by minor structural changes of guests. RSC Advances, 2015, 5, 38906-38909.	1.7	3

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127	Aggregation-Induced Emission on Supramolecular Coordination Complexes Platforms. , 2019, , 163-194.		1