Yuping Wang

List of Publications by Citations

253 papers	17,307 citations	65 h-index	126 g-index
277 ext. papers	20,743 ext. citations	14.1 avg, IF	7.45 L-index

#	Paper	IF	Citations
253	Mesoporous silica nanoparticles in biomedical applications. *Chemical Society Reviews*, **2012**, 41, 2590-605	58.5	1480
252	Dynamic imine chemistry. *Chemical Society Reviews*, **2012**, 41, 2003-24	58.5	758
251	Great expectations: can artificial molecular machines deliver on their promise?. *Chemical Society Reviews*, **2012**, 41, 19-30	58.5	723
250	A molecular shuttle. *Journal of the American Chemical Society*, **1991**, 113, 5131-5133	16.4	574
249	The chemistry of the mechanical bond. *Chemical Society Reviews*, **2009**, 38, 1802-20	58.5	550
248	Mechanically Interlocked Molecules (MIMs)-Molecular Shuttles, Switches, and Machines (Nobel Lecture). *Angewandte Chemie - International Edition*, **2017**, 56, 11094-11125	16.4	506
247	Cyclobis(paraquat-p-phenylene). A Tetracationic Multipurpose Receptor. *Angewandte Chemie International Edition in English*, **1988**, 27, 1547-1550		432
246	Metal-organic frameworks from edible natural products. *Angewandte Chemie - International Edition*, **2010**, 49, 8630-4	16.4	426
245	**2016**,		323
244	An artificial molecular pump. *Nature Nanotechnology*, **2015**, 10, 547-53	28.7	318
243	Strong and reversible binding of carbon dioxide in a green metal-organic framework. *Journal of the American Chemical Society*, **2011**, 133, 15312-5	16.4	297
242	Tunable solid-state fluorescent materials for supramolecular encryption. *Nature Communications*, **2015**, 6, 6884	17.4	289
241	Radically enhanced molecular recognition. *Nature Chemistry*, **2010**, 2, 42-9	17.6	247
240	Balancing volumetric and gravimetric uptake in highly porous materials for clean energy. *Science*, **2020**, 368, 297-303	33.3	215
239	Nanoporous carbohydrate metal-organic frameworks. *Journal of the American Chemical Society*, **2012**, 134, 406-17	16.4	208
238	Photophysical pore control in an azobenzene-containing metal–organic framework. *Chemical Science*, **2013**, 4, 2858	9.4	208
237	CD-MOF: A Versatile Separation Medium. *Journal of the American Chemical Society*, **2016**, 138, 2292-301	16.4	203

236	Conductive 2D metal-organic framework for high-performance cathodes in aqueous rechargeable zinc batteries. *Nature Communications*, **2019**, 10, 4948	17.4	198
235	Mesostructured multifunctional nanoparticles for imaging and drug delivery. *Journal of Materials Chemistry*, **2009**, 19, 6251		196
234	Scalable synthesis and post-modification of a mesoporous metal-organic framework called NU-1000. *Nature Protocols*, **2016**, 11, 149-62	18.8	192
233	Concepts in the design and engineering of single-molecule electronic devices. *Nature Reviews Physics*, **2019**, 1, 211-230	23.6	191
232	Mastering the non-equilibrium assembly and operation of molecular machines. *Chemical Society Reviews*, **2017**, 46, 5491-5507	58.5	188
231	A metal-organic framework-based material for electrochemical sensing of carbon dioxide. *Journal of the American Chemical Society*, **2014**, 136, 8277-82	16.4	181
230	A self-complexing and self-assembling pillar[5]arene. *Chemical Communications*, **2012**, 48, 1647-9	5.8	175
229	In silico discovery of metal-organic frameworks for precombustion CO capture using a genetic algorithm. *Science Advances*, **2016**, 2, e1600909	14.3	164
228	Rechargeable aluminium organic batteries. *Nature Energy*, **2019**, 4, 51-59	62.3	159
227	Composite CD-MOF nanocrystals-containing microspheres for sustained drug delivery. *Nanoscale*, **2017**, 9, 7454-7463	7.7	148
226	Supramolecular Explorations: Exhibiting the Extent of Extended Cationic Cyclophanes. *Accounts of Chemical Research*, **2016**, 49, 262-73	24.3	144
225	Flexible ferroelectric organic crystals. *Nature Communications*, **2016**, 7, 13108	17.4	142
224	Design and Synthesis of a Water-Stable Anionic Uranium-Based Metal-Organic Framework (MOF) with Ultra Large Pores. *Angewandte Chemie - International Edition*, **2016**, 55, 10358-62	16.4	141
223	Mechanisch verzahnte Molekle (MIMs) molekulare Shuttle, Schalter und Maschinen (Nobel-Aufsatz). *Angewandte Chemie*, **2017**, 129, 11244-11277	3.6	123
222	Induced-fit catalysis of corannulene bowl-to-bowl inversion. *Nature Chemistry*, **2014**, 6, 222-8	17.6	122
221	Direct calorimetric measurement of enthalpy of adsorption of carbon dioxide on CD-MOF-2, a green metal-organic framework. *Journal of the American Chemical Society*, **2013**, 135, 6790-3	16.4	120
220	Complexation of polyoxometalates with cyclodextrins. *Journal of the American Chemical Society*, **2015**, 137, 4111-8	16.4	118
219	Redox-Active Phenanthrenequinone Triangles in Aqueous Rechargeable Zinc Batteries. *Journal of the American Chemical Society*, **2020**, 142, 2541-2548	16.4	116

218	A Hafnium-Based Metal-Organic Framework as a Nature-Inspired Tandem Reaction Catalyst. *Journal of the American Chemical Society*, **2015**, 137, 13624-31	16.4	115
217	Solution-phase mechanistic study and solid-state structure of a tris(bipyridinium radical cation) inclusion complex. *Journal of the American Chemical Society*, **2012**, 134, 3061-72	16.4	112
216	Thither supramolecular chemistry?. *Nature Chemistry*, **2009**, 1, 14-5	17.6	110
215	Encapsulation of Ibuprofen in CD-MOF and Related Bioavailability Studies. *Molecular Pharmaceutics* , **2017**, 14, 1831-1839	5.6	108
214	Design and Synthesis of Nonequilibrium Systems. *ACS Nano*, **2015**, 9, 8672-88	16.7	106
213	In Situ Photoconversion of Multicolor Luminescence and Pure White Light Emission Based on Carbon Dot-Supported Supramolecular Assembly. *Journal of the American Chemical Society*, **2019**, 141, 6583-6591	16.4	104
212	Wholly Synthetic Molecular Machines. *ChemPhysChem*, **2016**, 17, 1780-93	3.2	104
211	Ground-state thermodynamics of bistable redox-active donor-acceptor mechanically interlocked molecules. *Accounts of Chemical Research*, **2012**, 45, 1581-92	24.3	103
210	Redox switchable daisy chain rotaxanes driven by radical-radical interactions. *Journal of the American Chemical Society*, **2014**, 136, 4714-23	16.4	102
209	Ground-state kinetics of bistable redox-active donor-acceptor mechanically interlocked molecules. *Accounts of Chemical Research*, **2014**, 47, 482-93	24.3	96
208	Carbohydrate-mediated purification of petrochemicals. *Journal of the American Chemical Society*, **2015**, 137, 5706-19	16.4	95
207	A Redox-Active Bistable Molecular Switch Mounted inside a Metal-Organic Framework. *Journal of the American Chemical Society*, **2016**, 138, 14242-14245	16.4	95
206	Relative unidirectional translation in an artificial molecular assembly fueled by light. *Journal of the American Chemical Society*, **2013**, 135, 18609-20	16.4	93
205	Pyrenecyclodextrin-Decorated Single-Walled Carbon Nanotube Field-Effect Transistors as Chemical Sensors. *Advanced Materials*, **2008**, 20, 1910-1915	24	93
204	Non-Interpenetrated Metal-Organic Frameworks Based on Copper(II) Paddlewheel and Oligoparaxylene-Isophthalate Linkers: Synthesis, Structure, and Gas Adsorption. *Journal of the American Chemical Society*, **2016**, 138, 3371-81	16.4	91
203	Redox- and pH-Controlled Mechanized Nanoparticles. *European Journal of Organic Chemistry*, **2009**, 2009, 1669-1673	3.2	89
202	Reticular Access to Highly Porous acs-MOFs with Rigid Trigonal Prismatic Linkers for Water Sorption. *Journal of the American Chemical Society*, **2019**, 141, 2900-2905	16.4	87
201	Facile postpolymerization end-modification of RAFT polymers. *Journal of Polymer Science Part A*, **2009**, 47, 346-356	2.5	84

200	Mechanical bond-induced radical stabilization. *Journal of the American Chemical Society*, **2013**, 135, 456-67	16.4	83
199	Integration of Enzymes and Photosensitizers in a Hierarchical Mesoporous Metal-Organic Framework for Light-Driven CO Reduction. *Journal of the American Chemical Society*, **2020**, 142, 1768-1773	16.4	80
198	Redox-Active Macrocycles for Organic Rechargeable Batteries. *Journal of the American Chemical Society*, **2017**, 139, 6635-6643	16.4	79
197	Introducing Stable Radicals into Molecular Machines. *ACS Central Science*, **2017**, 3, 927-935	16.8	78
196	Mechanically Interlocked Molecules Assembled by Recognition. *ChemPlusChem*, **2012**, 77, 159-185	2.8	78
195	Optimized synthesis and crystalline stability of cyclodextrin metal-organic frameworks for drug adsorption. *International Journal of Pharmaceutics*, **2016**, 514, 212-219	6.5	77
194	Postsynthetic Incorporation of a Singlet Oxygen Photosensitizer in a Metal-Organic Framework for Fast and Selective Oxidative Detoxification of Sulfur Mustard. *Chemistry - A European Journal*, **2017**, 23, 214-218	4.8	74
193	A precise polyrotaxane synthesizer. *Science*, **2020**, 368, 1247-1253	33.3	72
192	Electrochemically addressable trisradical rotaxanes organized within a metal-organic framework. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 11161-8	11.5	71
191	A metal-organic framework immobilised iridium pincer complex. *Chemical Science*, **2016**, 7, 4980-4984	9.4	66
190	Versatile self-complexing compounds based on covalently linked donor-acceptor cyclophanes. *Chemistry - A European Journal*, **2004**, 11, 369-85	4.8	65
189	Selective Extraction of C by a Tetragonal Prismatic Porphyrin Cage. *Journal of the American Chemical Society*, **2018**, 140, 13835-13842	16.4	64
188	Imprinting chemical and responsive micropatterns into metal-organic frameworks. *Angewandte Chemie - International Edition*, **2011**, 50, 276-9	16.4	63
187	An Electrochromic Tristable Molecular Switch. *Journal of the American Chemical Society*, **2015**, 137, 13484-7	16.4	62
186	Energetically demanding transport in a supramolecular assembly. *Journal of the American Chemical Society*, **2014**, 136, 14702-5	16.4	60
185	The Burgeoning of Mechanically Interlocked Molecules in Chemistry. *Trends in Chemistry*, **2019**, 1, 185-197	14.8	59
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183	ExTzBox: A Glowing Cyclophane for Live-Cell Imaging. *Journal of the American Chemical Society*, **2018**, 140, 7206-7212	16.4	57

182	Interpenetration Isomerism in Triptycene-Based Hydrogen-Bonded Organic Frameworks. *Angewandte Chemie - International Edition*, **2019**, 58, 1664-1669	16.4	56
181	Complex formation dynamics in a single-molecule electronic device. *Science Advances*, **2016**, 2, e1601113	14.3	55
180	Electron Sharing and Anion Recognition in Molecular Triangular Prisms. *Angewandte Chemie*, **2013**, 125, 13338-13342	3.6	55
179	Metal Organic Frameworks from Edible Natural Products. *Angewandte Chemie*, **2010**, 122, 8812-8816	3.6	55
178	On the thermodynamic and kinetic investigations of a [c2]daisy chain polymer. *Journal of Materials Chemistry*, **2010**, 20, 3422		54
177	Discrete Dimers of Redox-Active and Fluorescent Perylene Diimide-Based Rigid Isosceles Triangles in the Solid State. *Journal of the American Chemical Society*, **2019**, 141, 1290-1303	16.4	54
176	Folding of oligoviologens induced by radical-radical interactions. *Journal of the American Chemical Society*, **2015**, 137, 876-85	16.4	53
175	Cation-Dependent Gold Recovery with Cyclodextrin Facilitated by Second-Sphere Coordination. *Journal of the American Chemical Society*, **2016**, 138, 11643-53	16.4	53
174	A redox-active reverse donor acceptor bistable [2]rotaxane. *Chemical Science*, **2011**, 2, 1046-1053	9.4	52
173	Chiral Redox-Active Isosceles Triangles. *Journal of the American Chemical Society*, **2016**, 138, 5968-77	16.4	51
172	Precious metal recovery from electronic waste by a porous porphyrin polymer. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 16174-16180	11.5	49
171	Probing Distance Dependent Charge-Transfer Character in Excimers of Extended Viologen Cyclophanes Using Femtosecond Vibrational Spectroscopy. *Journal of the American Chemical Society*, **2017**, 139, 14265-14276	16.4	48
170	Electron Injection from Copper Diimine Sensitizers into TiO2: Structural Effects and Their Implications for Solar Energy Conversion Devices. *Journal of the American Chemical Society*, **2015**, 137, 9670-84	16.4	47
169	Spin Frustration in the Triradical Trianion of a Naphthalenediimide Molecular Triangle. *Journal of the American Chemical Society*, **2017**, 139, 2948-2951	16.4	46
168	Dimerization of viologen subunits around the core of C60 from twelve to six directions. *Chemical Science*, **2013**, 4, 1462	9.4	45
167	Energy and Electron Transfer Dynamics within a Series of Perylene Diimide/Cyclophane Systems. *Journal of the American Chemical Society*, **2015**, 137, 15299-307	16.4	45
166	Redox-driven switching in pseudorotaxanes. *New Journal of Chemistry*, **2009**, 33, 254	3.6	44
165	A Dynamic Tetracationic Macrocycle Exhibiting Photoswitchable Molecular Encapsulation. *Journal of the American Chemical Society*, **2019**, 141, 1280-1289	16.4	44

164	Controlling Dual Molecular Pumps Electrochemically. *Angewandte Chemie - International Edition*, **2018**, 57, 9325-9329	16.4	44
163	A solid-state switch containing an electrochemically switchable bistable poly[n]rotaxane. *Journal of Materials Chemistry*, **2011**, 21, 1487-1495		43
162	Molecular Pumps and Motors. *Journal of the American Chemical Society*, **2021**, 143, 5569-5591	16.4	43
161	Redox Control of the Binding Modes of an Organic Receptor. *Journal of the American Chemical Society*, **2015**, 137, 11057-68	16.4	42
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159	Molecular Russian dolls. *Nature Communications*, **2018**, 9, 5275	17.4	40
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157	Synthesis and solution-state dynamics of donor–acceptor oligorotaxane foldamers. *Chemical Science*, **2013**, 4, 1470	9.4	39
156	Functionalised cyclodextrin-based metal-organic frameworks. *Chemical Communications*, **2017**, 53, 7561-7564	6.4	38
155	Polyporous metal-coordination frameworks. *Organic Letters*, **2012**, 14, 1460-3	6.2	38
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153	From molecular to supramolecular electronics. *Nature Reviews Materials*, **2021**, 6, 804-828	73.3	38
152	Layer-by-Layer Assembled Films of Perylene Diimide- and Squaraine-Containing Metal-Organic Framework-like Materials: Solar Energy Capture and Directional Energy Transfer. *ACS Applied Materials & Interfaces*, **2016**, 8, 24983-8	9.5	37
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150	Synthetic oligorotaxanes exert high forces when folding under mechanical load. *Nature Nanotechnology*, **2018**, 13, 209-213	28.7	35
149	Charge and spin transport in an organic molecular square. *Angewandte Chemie - International Edition*, **2015**, 54, 11971-7	16.4	35
148	Second-sphere coordination revisited. *Chimia*, **2014**, 68, 315-20	1.3	35
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146	Surface-Enhanced Raman Spectroelectrochemistry of TTF-Modified Self-Assembled Monolayers. *Journal of Physical Chemistry Letters*, **2011**, 2, 1145-9	6.4	34
145	A Light-Stimulated Molecular Switch Driven by RadicalRadical Interactions in Water. *Angewandte Chemie*, **2011**, 123, 6914-6920	3.6	33
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142	Heterogeneity of functional groups in a metal-organic framework displays magic number ratios. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 5591-6	11.5	32
141	A Molecular Dual Pump. *Journal of the American Chemical Society*, **2019**, 141, 17472-17476	16.4	32
140	Alternate State Variables for Emerging Nanoelectronic Devices. *IEEE Nanotechnology Magazine*, **2009**, 8, 66-75	2.6	32
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138	An ExBox [2]catenane. *Chemical Science*, **2014**, 5, 2724	9.4	31
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128	Epitaxial Growth of Cyclodextrin-Containing Metal-Organic Frameworks Based on a Host-Guest Strategy. *Journal of the American Chemical Society*, **2018**, 140, 11402-11407	16.4	27
127	Pumps through the Ages. *CheM*, **2020**, 6, 1952-1977	16.2	27
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122	Allosteric Modulation of Substrate Binding within a Tetracationic Molecular Receptor. *Journal of the American Chemical Society*, **2015**, 137, 13252-5	16.4	24
121	Mechanical Bond Formation by Radical Templation. *Angewandte Chemie*, **2010**, 122, 8436-8441	3.6	24
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119	Influence of Constitution and Charge on Radical Pairing Interactions in Tris-radical Tricationic Complexes. *Journal of the American Chemical Society*, **2016**, 138, 8288-300	16.4	23
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117	Mechanical-Bond-Induced Exciplex Fluorescence in an Anthracene-Based Homo[2]catenane. *Journal of the American Chemical Society*, **2020**, 142, 7956-7967	16.4	22
116	XCage: A Tricyclic Octacationic Receptor for Perylene Diimide with Picomolar Affinity in Water. *Journal of the American Chemical Society*, **2020**, 142, 3165-3173	16.4	22
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99	Interpenetration Isomerism in Triptycene-Based Hydrogen-Bonded Organic Frameworks. *Angewandte Chemie*, **2019**, 131, 1678-1683	3.6	19
98	High-Efficiency Gold Recovery Using Cucurbit[6]uril. *ACS Applied Materials & Interfaces*, **2020**, 12, 38768-38777	9.5	18
97	Shuttling Rates, Electronic States, and Hysteresis in a Ring-in-Ring Rotaxane. *ACS Central Science*, **2018**, 4, 362-371	16.8	18
96	Imprinting Chemical and Responsive Micropatterns into Metal□Organic Frameworks. *Angewandte Chemie*, **2011**, 123, 290-293	3.6	18
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91	Quantitative Emergence of Hetero[4]rotaxanes by Template-Directed Click Chemistry. *Angewandte Chemie*, **2013**, 125, 399-405	3.6	17
90	Radical-pairing-induced molecular assembly and motion. *Nature Reviews Chemistry*, **2021**, 5, 447-465	34.6	17
89	Neighboring Component Effect in a Tri-stable [2]Rotaxane. *Journal of the American Chemical Society*, **2018**, 140, 13827-13834	16.4	17
88	An Electrochemically and Thermally Switchable Donor–Acceptor [c2]Daisy Chain Rotaxane. *Angewandte Chemie*, **2014**, 126, 1984-1989	3.6	16
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83	Gated Electron Sharing Within Dynamic Naphthalene Diimide-Based Oligorotaxanes. *Angewandte Chemie*, **2014**, 126, 4531-4538	3.6	15
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