

Stephen Goldup

List of Publications by Citations

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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.

80
papers

5,310
citations

39
h-index

72
g-index

105
ext. papers

6,108
ext. citations

14.7
avg, IF

6.28
L-index

#	Paper	IF	Citations
80	Sequence-specific peptide synthesis by an artificial small-molecule machine. <i>Science</i> , 2013 , 339, 189-93	33.3	546
79	Active metal template synthesis of rotaxanes, catenanes and molecular shuttles. <i>Chemical Society Reviews</i> , 2009 , 38, 1530-41	58.5	504
78	An autonomous chemically fuelled small-molecule motor. <i>Nature</i> , 2016 , 534, 235-40	50.4	269
77	Catalytic "active-metal" template synthesis of [2]rotaxanes, [3]rotaxanes, and molecular shuttles, and some observations on the mechanism of the cu(i)-catalyzed azide-alkyne 1,3-cycloaddition. <i>Journal of the American Chemical Society</i> , 2007 , 129, 11950-63	16.4	220
76	Chemical consequences of mechanical bonding in catenanes and rotaxanes: isomerism, modification, catalysis and molecular machines for synthesis. <i>Chemical Communications</i> , 2014 , 50, 5128-42	5.8	199
75	A chemically-driven molecular information ratchet. <i>Journal of the American Chemical Society</i> , 2008 , 130, 1836-8	16.4	161
74	Terahertz spectroscopy: a powerful new tool for the chemical sciences?. <i>Chemical Society Reviews</i> , 2012 , 41, 2072-82	58.5	145
73	The active template approach to interlocked molecules. <i>Nature Reviews Chemistry</i> , 2017 , 1,	34.6	143
72	Metal ions in the synthesis of interlocked molecules and materials. <i>Chemical Society Reviews</i> , 2017 , 46, 2577-2591	58.5	136
71	Chirality in rotaxanes and catenanes. <i>Chemical Society Reviews</i> , 2018 , 47, 5266-5311	58.5	126
70	Active-metal template synthesis of a molecular trefoil knot. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 12280-4	16.4	125
69	Properties and emerging applications of mechanically interlocked ligands. <i>Chemical Communications</i> , 2016 , 53, 298-312	5.8	119
68	A Stimuli-Responsive Rotaxane-Gold Catalyst: Regulation of Activity and Diastereoselectivity. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 13545-9	16.4	119
67	Active metal template synthesis of [2]catenanes. <i>Journal of the American Chemical Society</i> , 2009 , 131, 15924-9	16.4	114
66	An efficient approach to mechanically planar chiral rotaxanes. <i>Journal of the American Chemical Society</i> , 2014 , 136, 4817-20	16.4	113
65	An unusual nickel-copper-mediated alkyne homocoupling reaction for the active-template synthesis of [2]rotaxanes. <i>Journal of the American Chemical Society</i> , 2010 , 132, 6243-8	16.4	113
64	Macrocycle size matters: "small" functionalized rotaxanes in excellent yield using the CuAAC active template approach. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 4151-5	16.4	109

63	A three-compartment chemically-driven molecular information ratchet. <i>Journal of the American Chemical Society</i> , 2012 , 134, 8321-3	16.4	103
62	Ligand-assisted nickel-catalysed sp ³ sp ³ homocoupling of unactivated alkyl bromides and its application to the active template synthesis of rotaxanes. <i>Chemical Science</i> , 2010 , 1, 383	9.4	96
61	Cadiot-Chodkiewicz active template synthesis of rotaxanes and switchable molecular shuttles with weak intercomponent interactions. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 4392-6	16.4	92
60	A catalytic palladium active-metal template pathway to [2]rotaxanes. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 5709-13	16.4	91
59	Synthesis of a rotaxane Cu(I) triazolide under aqueous conditions. <i>Journal of the American Chemical Society</i> , 2013 , 135, 13318-21	16.4	88
58	Modular 'click' sensors for zinc and their application in vivo. <i>Chemical Communications</i> , 2011 , 47, 6036-8	5.8	80
57	Two axles threaded using a single template site: active metal template macrobicyclic [3]rotaxanes. <i>Journal of the American Chemical Society</i> , 2010 , 132, 315-20	16.4	77
56	Gold(I)-template catenane and rotaxane synthesis. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 6999-7003	16.4	75
55	Iterative Synthesis of Oligo[n]rotaxanes in Excellent Yield. <i>Journal of the American Chemical Society</i> , 2016 , 138, 16329-16336	16.4	71
54	Simplicity in the Design, Operation, and Applications of Mechanically Interlocked Molecular Machines. <i>ACS Central Science</i> , 2020 , 6, 117-128	16.8	65
53	Active template synthesis of rotaxanes and molecular shuttles with switchable dynamics by four-component Pd(II)-promoted Michael additions. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 3381-4	16.4	59
52	Two flavors of PEPPSI-IPr: activation and diffusion control in a single NHC-ligated Pd catalyst?. <i>Organic Letters</i> , 2011 , 13, 146-9	6.2	57
51	Chelating Rotaxane Ligands as Fluorescent Sensors for Metal Ions. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 5310-5314	16.4	55
50	High yielding synthesis of 2,2'-bipyridine macrocycles, versatile intermediates in the synthesis of rotaxanes. <i>Chemical Science</i> , 2016 , 7, 3154-3161	9.4	55
49	A simple, short, and flexible synthesis of viridifungin derivatives. <i>Journal of Organic Chemistry</i> , 2006 , 71, 6185-91	4.2	55
48	Photodegradation of Rhodamine B over Ag modified ferroelectric BaTiO ₃ under simulated solar light: pathways and mechanism. <i>RSC Advances</i> , 2015 , 5, 30372-30379	3.7	53
47	Synthesis of a Mechanically Planar Chiral Rotaxane Ligand for Enantioselective Catalysis. <i>Chem</i> , 2020 , 6, 994-1006	16.2	53
46	A Stimuli-Responsive Rotaxane-Gold Catalyst: Regulation of Activity and Diastereoselectivity. <i>Angewandte Chemie</i> , 2015 , 127, 13749-13753	3.6	51

45	Biologically targeted probes for Zn: a diversity oriented modular "click-SAr-click" approach. Electronic supplementary information (ESI) available: Full experimental details including characterisation of all novel compounds can be found in the ESI. See DOI: 10.1039/c4sc01249f. <i>Chemical Science</i> , 2014 , 5, 3528-3535	9.4	46
44	Stereoselective Synthesis of Mechanically Planar Chiral Rotaxanes. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 14806-14810	16.4	45
43	Competitive formation of homocircuit [3]rotaxanes in synthetically useful yields in the bipyridine-mediated active template CuAAC reaction. <i>Chemical Science</i> , 2015 , 6, 2398-2404	9.4	44
42	A Kinetic Self-Sorting Approach to Heterocircuit [3]Rotaxanes. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 12488-93	16.4	43
41	A Fluorescent Ditopic Rotaxane Ion-Pair Host. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 5315-5319	16.4	39
40	Active-Metal Template Synthesis of a Molecular Trefoil Knot. <i>Angewandte Chemie</i> , 2011 , 123, 12488-12498	9.7	37
39	Macrocyclic Size Matters: Small Functionalized Rotaxanes in Excellent Yield Using the CuAAC Active Template Approach. <i>Angewandte Chemie</i> , 2011 , 123, 4237-4241	3.6	36
38	Rotaxane-Based Transition Metal Complexes: Effect of the Mechanical Bond on Structure and Electronic Properties. <i>Journal of the American Chemical Society</i> , 2019 , 141, 879-889	16.4	36
37	Efficient Multicomponent Active Template Synthesis of Catenanes. <i>Journal of the American Chemical Society</i> , 2018 , 140, 4787-4791	16.4	34
36	An Auxiliary Approach for the Stereoselective Synthesis of Topologically Chiral Catenanes. <i>Chem</i> , 2019 , 5, 1512-1520	16.2	33
35	Crystallization of amorphous lactose at high humidity studied by terahertz time domain spectroscopy. <i>Chemical Physics Letters</i> , 2013 , 558, 104-108	2.5	30
34	Unusual mechanistic course of some NHC-mediated transesterifications. <i>Organic Letters</i> , 2009 , 11, 1643-6.2	6.2	26
33	Strategies for the Synthesis of Enantiopure Mechanically Chiral Molecules. <i>Chem</i> , 2020 , 6, 1914-1932	16.2	26
32	Porphyrioid rotaxanes: building a mechanical picket fence. <i>Chemical Science</i> , 2017 , 8, 6679-6685	9.4	21
31	Engaging Copper(III) Corrole as an Electron Acceptor: Photoinduced Charge Separation in Zinc Porphyrin-Copper Corrole Donor-Acceptor Conjugates. <i>Chemistry - A European Journal</i> , 2016 , 22, 1301-12	4.8	20
30	AT-CuAAC Synthesis of Mechanically Interlocked Oligonucleotides. <i>Journal of the American Chemical Society</i> , 2020 , 142, 5985-5990	16.4	19
29	Chemical Consequences of the Mechanical Bond: A Tandem Active Template-Rearrangement Reaction. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 3875-3879	16.4	19
28	Rotaxane Pt-complexes: mechanical bonding for chemically robust luminophores and stimuli responsive behaviour. <i>Chemical Science</i> , 2020 , 11, 1839-1847	9.4	18

27	A Fluorescent Ditopic Rotaxane Ion-Pair Host. <i>Angewandte Chemie</i> , 2018 , 130, 5413-5417	3.6	18
26	Selective and general exhaustive cross-coupling of di-chloroarenes with a deficit of nucleophiles mediated by a Pd-NHC complex. <i>Chemical Communications</i> , 2015 , 51, 3832-4	5.8	17
25	Scalable anti-Markovnikov hydrobromination of aliphatic and aromatic olefins. <i>Organic and Biomolecular Chemistry</i> , 2016 , 14, 5622-6	3.9	16
24	Chelating Rotaxane Ligands as Fluorescent Sensors for Metal Ions. <i>Angewandte Chemie</i> , 2018 , 130, 5408-5412	3.5	13
23	Using the Mechanical Bond to Tune the Performance of a Thermally Activated Delayed Fluorescence Emitter*. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 12066-12073	16.4	13
22	A Kinetic Self-Sorting Approach to Heterocircuit [3]Rotaxanes. <i>Angewandte Chemie</i> , 2016 , 128, 12676-12681	6.8	13
21	Stepwise, Protecting Group Free Synthesis of [4]Rotaxanes. <i>Molecules</i> , 2017 , 22,	4.8	12
20	Artificial molecular machines: Two steps uphill. <i>Nature Nanotechnology</i> , 2015 , 10, 488-9	28.7	10
19	Chemical Consequences of the Mechanical Bond: A Tandem Active Template-Rearrangement Reaction. <i>Angewandte Chemie</i> , 2019 , 131, 3915-3919	3.6	9
18	Vibrational circular dichroism spectroscopy for probing the expression of chirality in mechanically planar chiral rotaxanes. <i>Chemical Science</i> , 2020 , 11, 8469-8475	9.4	9
17	Mechanical chirality: A chiral catalyst with a ring to it. <i>Nature Chemistry</i> , 2016 , 8, 404-6	17.6	9
16	Synthesis and Characterisation of a Paramagnetic [2]Rotaxane Based on a Crown Ether-Like Wheel Incorporating a Nitroxide Motif. <i>Chemistry - A European Journal</i> , 2018 , 24, 1198-1203	4.8	9
15	A [3]Rotaxane Host Selects Between Stereoisomers. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 4462-4464	16.4	7
14	Stereoselective Synthesis of Mechanically Planar Chiral Rotaxanes. <i>Angewandte Chemie</i> , 2018 , 130, 15023-15026	3.6	6
13	Chirality makes a move. <i>Nature Chemistry</i> , 2019 , 11, 765-767	17.6	6
12	Controlling catalyst activity, chemoselectivity and stereoselectivity with the mechanical bond. <i>Nature Reviews Chemistry</i> ,	34.6	6
11	Rotaxane Co Complexes as Field-Induced Single-Ion Magnets. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 16051-16058	16.4	6
10	Damming an electronic energy reservoir: ion-regulated electronic energy shuttling in a [2]rotaxane. <i>Chemical Science</i> , 2021 , 12, 9196-9200	9.4	3

9	Using the Mechanical Bond to Tune the Performance of a Thermally Activated Delayed Fluorescence Emitter**. <i>Angewandte Chemie</i> , 2021 , 133, 12173-12180	3.6	2
8	Spin-labelled mechanically interlocked molecules as models for the interpretation of biradical EPR spectra. <i>Chemical Science</i> , 2021 , 12, 8385-8393	9.4	2
7	Rotaxanation as a sequestering template to preclude incidental metal insertion in complex oligochromophores. <i>Chemical Communications</i> , 2020 , 56, 7447-7450	5.8	1
6	A chiral interlocking auxiliary strategy for the synthesis of mechanically planar chiral rotaxanes. <i>Nature Chemistry</i> , 2021 ,	17.6	1
5	Rotaxane Coll Complexes as Field-Induced Single-Ion Magnets. <i>Angewandte Chemie</i> , 2021 , 133, 16187-16194	10.4	1
4	Synthesis, photophysical and assembly studies of novel luminescent lanthanide(III) complexes of 1,2,3-triazolyl-pyridine-2,6-dicarboxamide-based ligands. <i>Supramolecular Chemistry</i> , 1-14	1.8	1
3	Ein [3]Rotaxan-Wirt selektiert zwischen Stereoisomeren. <i>Angewandte Chemie</i> , 2018 , 130, 4550-4552	3.6	
2	Rücktitelbild: Active-Metal Template Synthesis of a Molecular Trefoil Knot (Angew. Chem. 51/2011). <i>Angewandte Chemie</i> , 2011 , 123, 12574-12574	3.6	
1	Back Cover: Active-Metal Template Synthesis of a Molecular Trefoil Knot (Angew. Chem. Int. Ed. 51/2011). <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 12366-12366	16.4	