Stephen Goldup

List of Publications by Year in Descending Order

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	A chiral interlocking auxiliary strategy for the synthesis of mechanically planar chiral rotaxanes. *Nature Chemistry*, **2021**,	17.6	1
79	Using the Mechanical Bond to Tune the Performance of a Thermally Activated Delayed Fluorescence Emitter*. *Angewandte Chemie - International Edition*, **2021**, 60, 12066-12073	16.4	13
78	Using the Mechanical Bond to Tune the Performance of a Thermally Activated Delayed Fluorescence Emitter**. *Angewandte Chemie*, **2021**, 133, 12173-12180	3.6	2
77	Rotaxane Co Complexes as Field-Induced Single-Ion Magnets. *Angewandte Chemie - International Edition*, **2021**, 60, 16051-16058	16.4	6
76	Rotaxane CoII Complexes as Field-Induced Single-Ion Magnets. *Angewandte Chemie*, **2021**, 133, 16187-16194	3.6	1
75	Damming an electronic energy reservoir: ion-regulated electronic energy shuttling in a [2]rotaxane. *Chemical Science*, **2021**, 12, 9196-9200	9.4	3
74	Spin-labelled mechanically interlocked molecules as models for the interpretation of biradical EPR spectra. *Chemical Science*, **2021**, 12, 8385-8393	9.4	2
73	Rotaxanation as a sequestering template to preclude incidental metal insertion in complex oligochromophores. *Chemical Communications*, **2020**, 56, 7447-7450	5.8	1
72	AT-CuAAC Synthesis of Mechanically Interlocked Oligonucleotides. *Journal of the American Chemical Society*, **2020**, 142, 5985-5990	16.4	19
71	Synthesis of a Mechanically Planar Chiral Rotaxane Ligand for Enantioselective Catalysis. *CheM*, **2020**, 6, 994-1006	16.2	53
70	Rotaxane Pt-complexes: mechanical bonding for chemically robust luminophores and stimuli responsive behaviour. *Chemical Science*, **2020**, 11, 1839-1847	9.4	18
69	Simplicity in the Design, Operation, and Applications of Mechanically Interlocked Molecular Machines. *ACS Central Science*, **2020**, 6, 117-128	16.8	65
68	Strategies for the Synthesis of Enantiopure Mechanically Chiral Molecules. *CheM*, **2020**, 6, 1914-1932	16.2	26
67	Vibrational circular dichroism spectroscopy for probing the expression of chirality in mechanically planar chiral rotaxanes. *Chemical Science*, **2020**, 11, 8469-8475	9.4	9
66	Chemical Consequences of the Mechanical Bond: A Tandem Active Template-Rearrangement Reaction. *Angewandte Chemie*, **2019**, 131, 3915-3919	3.6	9
65	An Auxiliary Approach for the Stereoselective Synthesis of Topologically Chiral Catenanes. *CheM*, **2019**, 5, 1512-1520	16.2	33
64	Chirality makes a move. *Nature Chemistry*, **2019**, 11, 765-767	17.6	6

63	Chemical Consequences of the Mechanical Bond: A Tandem Active Template-Rearrangement Reaction. *Angewandte Chemie - International Edition*, **2019**, 58, 3875-3879	16.4	19
62	Rotaxane-Based Transition Metal Complexes: Effect of the Mechanical Bond on Structure and Electronic Properties. *Journal of the American Chemical Society*, **2019**, 141, 879-889	16.4	36
61	Chelating Rotaxane Ligands as Fluorescent Sensors for Metal Ions. *Angewandte Chemie*, **2018**, 130, 5408-5412	3.6	13
60	A [3]Rotaxane Host Selects Between Stereoisomers. *Angewandte Chemie - International Edition*, **2018**, 57, 4462-4464	16.4	7
59	A Fluorescent Ditopic Rotaxane Ion-Pair Host. *Angewandte Chemie*, **2018**, 130, 5413-5417	3.6	18
58	A Fluorescent Ditopic Rotaxane Ion-Pair Host. *Angewandte Chemie - International Edition*, **2018**, 57, 5315-5319	16.4	39
57	Ein [3]Rotaxan-Wirt selektiert zwischen Stereoisomeren. *Angewandte Chemie*, **2018**, 130, 4550-4552	3.6	
56	Efficient Multicomponent Active Template Synthesis of Catenanes. *Journal of the American Chemical Society*, **2018**, 140, 4787-4791	16.4	34
55	Chelating Rotaxane Ligands as Fluorescent Sensors for Metal Ions. *Angewandte Chemie - International Edition*, **2018**, 57, 5310-5314	16.4	55
54	Synthesis and Characterisation of a Paramagnetic [2]Rotaxane Based on a Crown Ether-Like Wheel Incorporating a Nitroxide Motif. *Chemistry - A European Journal*, **2018**, 24, 1198-1203	4.8	9
53	Stereoselective Synthesis of Mechanically Planar Chiral Rotaxanes. *Angewandte Chemie*, **2018**, 130, 15022-15026	3.6	7
52	Stereoselective Synthesis of Mechanically Planar Chiral Rotaxanes. *Angewandte Chemie - International Edition*, **2018**, 57, 14806-14810	16.4	45
51	Chirality in rotaxanes and catenanes. *Chemical Society Reviews*, **2018**, 47, 5266-5311	58.5	126
50	Metal ions in the synthesis of interlocked molecules and materials. *Chemical Society Reviews*, **2017**, 46, 2577-2591	58.5	136
49	Stepwise, Protecting Group Free Synthesis of [4]Rotaxanes. *Molecules*, **2017**, 22,	4.8	12
48	Porphyrinoid rotaxanes: building a mechanical picket fence. *Chemical Science*, **2017**, 8, 6679-6685	9.4	21
47	The active template approach to interlocked molecules. *Nature Reviews Chemistry*, **2017**, 1,	34.6	143
46	Engaging Copper(III) Corrole as an Electron Acceptor: Photoinduced Charge Separation in Zinc Porphyrin-Copper Corrole Donor-Acceptor Conjugates. *Chemistry - A European Journal*, **2016**, 22, 1301-12	4.8	20

45	An autonomous chemically fuelled small-molecule motor. *Nature*, **2016**, 534, 235-40	50.4	269
44	High yielding synthesis of 2,2'-bipyridine macrocycles, versatile intermediates in the synthesis of rotaxanes. *Chemical Science*, **2016**, 7, 3154-3161	9.4	55
43	Properties and emerging applications of mechanically interlocked ligands. *Chemical Communications*, **2016**, 53, 298-312	5.8	119
42	Scalable anti-Markovnikov hydrobromination of aliphatic and aromatic olefins. *Organic and Biomolecular Chemistry*, **2016**, 14, 5622-6	3.9	16
41	Mechanical chirality: A chiral catalyst with a ring to it. *Nature Chemistry*, **2016**, 8, 404-6	17.6	9
40	A Kinetic Self-Sorting Approach to Heterocircuit [3]Rotaxanes. *Angewandte Chemie*, **2016**, 128, 12676-12681	3.6	13
39	A Kinetic Self-Sorting Approach to Heterocircuit [3]Rotaxanes. *Angewandte Chemie - International Edition*, **2016**, 55, 12488-93	16.4	43
38	Iterative Synthesis of Oligo[n]rotaxanes in Excellent Yield. *Journal of the American Chemical Society*, **2016**, 138, 16329-16336	16.4	71
37	Artificial molecular machines: Two steps uphill. *Nature Nanotechnology*, **2015**, 10, 488-9	28.7	10
36	Photodegradation of Rhodamine B over Ag modified ferroelectric BaTiO3 under simulated solar light: pathways and mechanism. *RSC Advances*, **2015**, 5, 30372-30379	3.7	53
35	Competitive formation of homocircuit [3]rotaxanes in synthetically useful yields in the bipyridine-mediated active template CuAAC reaction. *Chemical Science*, **2015**, 6, 2398-2404	9.4	44
34	A Stimuli-Responsive Rotaxane□old Catalyst: Regulation of Activity and Diastereoselectivity. *Angewandte Chemie*, **2015**, 127, 13749-13753	3.6	51
33	A Stimuli-Responsive Rotaxane-Gold Catalyst: Regulation of Activity and Diastereoselectivity. *Angewandte Chemie - International Edition*, **2015**, 54, 13545-9	16.4	119
32	Selective and general exhaustive cross-coupling of di-chloroarenes with a deficit of nucleophiles mediated by a Pd-NHC complex. *Chemical Communications*, **2015**, 51, 3832-4	5.8	17
31	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. *Chemical Science*, **2014**, 5, 3528-3535	9.4	46
30	Chemical consequences of mechanical bonding in catenanes and rotaxanes: isomerism, modification, catalysis and molecular machines for synthesis. *Chemical Communications*, **2014**, 50, 5128-42	5.8	199
29	An efficient approach to mechanically planar chiral rotaxanes. *Journal of the American Chemical Society*, **2014**, 136, 4817-20	16.4	113
28	Synthesis of a rotaxane Cu(I) triazolide under aqueous conditions. *Journal of the American Chemical Society*, **2013**, 135, 13318-21	16.4	88

27	Sequence-specific peptide synthesis by an artificial small-molecule machine. *Science*, **2013**, 339, 189-93	33.3	546
26	Crystallization of amorphous lactose at high humidity studied by terahertz time domain spectroscopy. *Chemical Physics Letters*, **2013**, 558, 104-108	2.5	30
25	A three-compartment chemically-driven molecular information ratchet. *Journal of the American Chemical Society*, **2012**, 134, 8321-3	16.4	103
24	Terahertz spectroscopy: a powerful new tool for the chemical sciences?. *Chemical Society Reviews*, **2012**, 41, 2072-82	58.5	145
23	Modular 'click' sensors for zinc and their application in vivo. *Chemical Communications*, **2011**, 47, 6036-8	5.8	80
22	Two flavors of PEPPSI-IPr: activation and diffusion control in a single NHC-ligated Pd catalyst?. *Organic Letters*, **2011**, 13, 146-9	6.2	57
21	Macrocycle Size Matters: Small Functionalized Rotaxanes in Excellent Yield Using the CuAAC Active Template Approach. *Angewandte Chemie*, **2011**, 123, 4237-4241	3.6	36
20	Active-Metal Template Synthesis of a Molecular Trefoil Knot. *Angewandte Chemie*, **2011**, 123, 12488-12492	3.6	37
19	Rücktitelbild: Active-Metal Template Synthesis of a Molecular Trefoil Knot (Angew. Chem. 51/2011). *Angewandte Chemie*, **2011**, 123, 12574-12574	3.6	
18	Macrocycle size matters: "small" functionalized rotaxanes in excellent yield using the CuAAC active template approach. *Angewandte Chemie - International Edition*, **2011**, 50, 4151-5	16.4	109
17	Active-metal template synthesis of a molecular trefoil knot. *Angewandte Chemie - International Edition*, **2011**, 50, 12280-4	16.4	125
16	Back Cover: Active-Metal Template Synthesis of a Molecular Trefoil Knot (Angew. Chem. Int. Ed. 51/2011). *Angewandte Chemie - International Edition*, **2011**, 50, 12366-12366	16.4	
15	An unusual nickel-copper-mediated alkyne homocoupling reaction for the active-template synthesis of [2]rotaxanes. *Journal of the American Chemical Society*, **2010**, 132, 6243-8	16.4	113
14	Two axles threaded using a single template site: active metal template macrobicyclic [3]rotaxanes. *Journal of the American Chemical Society*, **2010**, 132, 315-20	16.4	77
13	Ligand-assisted nickel-catalysed sp3–sp3 homocoupling of unactivated alkyl bromides and its application to the active template synthesis of rotaxanes. *Chemical Science*, **2010**, 1, 383	9.4	96
12	Unusual mechanistic course of some NHC-mediated transesterifications. *Organic Letters*, **2009**, 11, 1643-6	6.2	26
11	Active metal template synthesis of rotaxanes, catenanes and molecular shuttles. *Chemical Society Reviews*, **2009**, 38, 1530-41	58.5	504
10	Active metal template synthesis of [2]catenanes. *Journal of the American Chemical Society*, **2009**, 131, 15924-9	16.4	114

9	A chemically-driven molecular information ratchet. *Journal of the American Chemical Society*, **2008**, 130, 1836-8	16.4	161
8	Active template synthesis of rotaxanes and molecular shuttles with switchable dynamics by four-component Pd(II)-promoted Michael additions. *Angewandte Chemie - International Edition*, **2008**, 47, 3381-4	16.4	59
7	Cadiot-Chodkiewicz active template synthesis of rotaxanes and switchable molecular shuttles with weak intercomponent interactions. *Angewandte Chemie - International Edition*, **2008**, 47, 4392-6	16.4	92
6	Gold(I)-template catenane and rotaxane synthesis. *Angewandte Chemie - International Edition*, **2008**, 47, 6999-7003	16.4	75
5	A catalytic palladium active-metal template pathway to [2]rotaxanes. *Angewandte Chemie - International Edition*, **2007**, 46, 5709-13	16.4	91
4	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. *Journal of the American Chemical Society*, **2007**, 129, 11950-63	16.4	220
3	A simple, short, and flexible synthesis of viridiofungin derivatives. *Journal of Organic Chemistry*, **2006**, 71, 6185-91	4.2	55
2	Controlling catalyst activity, chemoselectivity and stereoselectivity with the mechanical bond. *Nature Reviews Chemistry*,	34.6	6
1	Synthesis, photophysical and assembly studies of novel luminescent lanthanide(III) complexes of 1,2,3-triazolyl-pyridine-2,6-dicarboxamide-based ligands. *Supramolecular Chemistry*,1-14	1.8	1