Shawn K Collins

List of Publications by Citations

64 papers	2,148 citations	26 h-index	45 g-index
71 ext. papers	2,430 ext. citations	7.3 avg, IF	5.58 L-index

#	Paper	IF	Citations
64	A visible-light-mediated synthesis of carbazoles. *Angewandte Chemie - International Edition*, **2013**, 52, 12696-700	16.4	171
63	Heteroleptic Cu-Based Sensitizers in Photoredox Catalysis. *Accounts of Chemical Research*, **2016**, 49, 1557-65	17.9	154
62	Enantioselective synthesis of [7]helicene: dramatic effects of olefin additives and aromatic solvents in asymmetric olefin metathesis. *Chemistry - A European Journal*, **2008**, 14, 9323-9	4.8	146
61	Unlocking the potential of thiaheterohelicenes: chemical synthesis as the key. *Organic and Biomolecular Chemistry*, **2006**, 4, 2518-24	3.9	132
60	Preparation of helicenes through olefin metathesis. *Angewandte Chemie - International Edition*, **2006**, 45, 2923-6	16.4	125
59	Heteroleptic Copper(I)-Based Complexes for Photocatalysis: Combinatorial Assembly, Discovery, and Optimization. *Angewandte Chemie - International Edition*, **2018**, 57, 5477-5481	16.4	99
58	Toward a visible light mediated photocyclization: Cu-based sensitizers for the synthesis of [5]helicene. *Organic Letters*, **2012**, 14, 2988-91	6.2	95
57	A Highly Active Chiral Ruthenium-Based Catalyst for Enantioselective Olefin Metathesis. *Organometallics*, **2007**, 26, 2945-2949	3.8	71
56	Phase separation as a strategy toward controlling dilution effects in macrocyclic Glaser-Hay couplings. *Journal of the American Chemical Society*, **2011**, 133, 19976-81	16.4	65
55	Synthesis, crystal structure and photophysical properties of pyrene-helicene hybrids. *Chemistry - A European Journal*, **2013**, 19, 16295-302	4.8	62
54	Desymmetrizations forming tetrasubstituted olefins using enantioselective olefin metathesis. *Organic Letters*, **2010**, 12, 2032-5	6.2	59
53	Photochemical Synthesis of Carbazoles Using an [Fe(phen)](NTf)/O Catalyst System: Catalysis toward Sustainability. *Organic Letters*, **2016**, 18, 4994-4997	6.2	54
52	Exploitation of perfluorophenyl-phenyl interactions for achieving difficult macrocyclizations by using ring-closing metathesis. *Angewandte Chemie - International Edition*, **2006**, 45, 968-73	16.4	53
51	Mechanistically inspired catalysts for enantioselective desymmetrizations by olefin metathesis. *Chemistry - A European Journal*, **2008**, 14, 8690-5	4.8	47
50	A Visible-Light-Mediated Synthesis of Carbazoles. *Angewandte Chemie*, **2013**, 125, 12928-12932	3.6	46
49	Efficient macrocyclization achieved via conformational control using intermolecular noncovalent cation/arene interactions. *Journal of the American Chemical Society*, **2010**, 132, 12790-1	16.4	46
48	Photochemical Dual-Catalytic Synthesis of Alkynyl Sulfides. *Angewandte Chemie - International Edition*, **2017**, 56, 12255-12259	16.4	44

47	Preparation of Helicenes through Olefin Metathesis. *Angewandte Chemie*, **2006**, 118, 2989-2992	3.6	42
46	Photochemical Cobalt-Catalyzed Hydroalkynylation To Form 1,3-Enynes. *ACS Catalysis*, **2019**, 9, 3213-3218	13.1	37
45	Bifunctional Copper-Based Photocatalyst for Reductive Pinacol-Type Couplings. *ACS Catalysis*, **2019**, 9, 9458-9464	13.1	36
44	Photochemical intramolecular amination for the synthesis of heterocycles. *Green Chemistry*, **2017**, 19, 4798-4803	10	32
43	Photochemical Synthesis of Complex Carbazoles: Evaluation of Electronic Effects in Both UV- and Visible-Light Methods in Continuous Flow. *Chemistry - A European Journal*, **2015**, 21, 16673-8	4.8	32
42	Development of perfluoroarene-arene interactions for macrocyclic en-yne metathesis and the total synthesis of macrocyclic natural products. *Journal of Organic Chemistry*, **2007**, 72, 6397-408	4.2	31
41	Preparation of cyclic molecules bearing strained olefins using olefin metathesis. *Journal of Organometallic Chemistry*, **2006**, 691, 5122-5128	2.3	28
40	Biocatalytic synthesis of planar chiral macrocycles. *Science*, **2020**, 367, 917-921	33.3	26
39	Synthesis of C(1)-symmetric BINOLs employing N-heterocyclic carbene-copper complexes. *Chemistry - A European Journal*, **2009**, 15, 9655-9	4.8	26
38	Advanced strategies for efficient macrocyclic Cu(I)-catalyzed cycloaddition of azides. *Organic Letters*, **2014**, 16, 5286-9	6.2	25
37	Microwave accelerated Glaser-Hay macrocyclizations at high concentrations. *Chemical Communications*, **2012**,	5.8	23
36	Heterocoupling of 2-naphthols enabled by a copper-N-heterocyclic carbene complex. *Chemical Communications*, **2013**, 49, 1835-7	5.8	22
35	Heteroleptic Copper(I)-Based Complexes for Photocatalysis: Combinatorial Assembly, Discovery, and Optimization. *Angewandte Chemie*, **2018**, 130, 5575-5579	3.6	21
34	Direct Macrolactonization of Seco Acids via Hafnium(IV) Catalysis. *ACS Catalysis*, **2015**, 5, 1462-1467	13.1	21
33	Exploiting quadrupolar interactions in the synthesis of the macrocyclic portion of longithorone C. *Organic Letters*, **2008**, 10, 2927-30	6.2	21
32	Continuous flow macrocyclization at high concentrations: synthesis of macrocyclic lipids. *Green Chemistry*, **2013**, 15, 1962	10	20
31	Synthesis of a Carprofen Analogue Using a Continuous Flow UV-Reactor. *Organic Process Research and Development*, **2014**, 18, 1571-1574	3.9	19
30	Exploitation of Perfluorophenyl-Phenyl Interactions for Achieving Difficult Macrocyclizations by Using Ring-Closing Metathesis. *Angewandte Chemie*, **2006**, 118, 982-987	3.6	17

29	Synthesis of a Renewable Macrocyclic Musk: Evaluation of Batch, Microwave, and Continuous Flow Strategies. *Organic Process Research and Development*, **2019**, 23, 283-287	3.9	16
28	Catalytic Macrocyclization Strategies Using Continuous Flow: Formal Total Synthesis of Ivorenolide A. *Journal of Organic Chemistry*, **2016**, 81, 6750-6	4.2	12
27	Introduction of axial chirality in a planar aromatic ligand results in chiral recognition with DNA. *Journal of Molecular Recognition*, **2011**, 24, 288-94	2.6	12
26	Continuous Flow Science in an Undergraduate Teaching Laboratory: Photocatalytic Thiol-Ene Reaction Using Visible Light. *Journal of Chemical Education*, **2018**, 95, 1073-1077	2.4	12
25	Photochemical Dual-Catalytic Synthesis of Alkynyl Sulfides. *Angewandte Chemie*, **2017**, 129, 12423-12427	3.6	11
24	Phase Separation Macrocyclization in a Complex Pharmaceutical Setting: Application toward the Synthesis of Vaniprevir. *Journal of Organic Chemistry*, **2017**, 82, 7576-7582	4.2	11
23	Direct synthesis of macrodiolides via hafnium(IV) catalysis. *Chemical Communications*, **2015**, 51, 10471-4	5.8	11
22	Development of quadrupolar engaging auxiliaries as novel gearing elements for macrocyclization. *Pure and Applied Chemistry*, **2006**, 78, 783-789	2.1	11
21	Influence of Poly(ethylene glycol) Structure in Catalytic Macrocyclization Reactions. *ACS Catalysis*, **2013**, 3, 773-782	13.1	10
20	Exploiting aggregation to achieve phase separation in macrocyclization. *Chemistry - A European Journal*, **2013**, 19, 2108-13	4.8	10
19	Photocatalyic Appel reaction enabled by copper-based complexes in continuous flow. *Beilstein Journal of Organic Chemistry*, **2018**, 14, 2730-2736	2.5	9
18	Exploiting Photochemical Processes in Multi-Step Continuous Flow: Derivatization of the Natural Product Clausine C. *ChemPhotoChem*, **2018**, 2, 855-859	3.3	9
17	Total Synthesis of Neomarchantin A: Key Bond Constructions Performed Using Continuous Flow Methods. *Organic Letters*, **2017**, 19, 2889-2892	6.2	8
16	Continuous Flow Science in an Undergraduate Teaching Laboratory: Bleach-Mediated Oxidation in a Biphasic System. *Journal of Chemical Education*, **2018**, 95, 1069-1072	2.4	8
15	Enantioselective Olefin Metathesis **2014**, 233-267		8
14	General Cu-Catalyzed C-S Coupling. *Organic Letters*, **2020**, 22, 5905-5909	6.2	8
13	Efficient continuous-flow synthesis of macrocyclic triazoles. *Journal of Flow Chemistry*, **2015**, 5, 142-144	3.3	6
12	A synthetic guide to alkynyl sulfides. *Organic and Biomolecular Chemistry*, **2020**, 18, 4885-4893	3.9	5

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11	Macrocyclic olefin metathesis at high concentrations by using a phase-separation strategy. *Chemistry - A European Journal*, **2014**, 20, 12763-7	4.8	5
10	Heteroleptic Copper-Based Complexes for Energy-Transfer Processes: E -uZ Isomerization and Tandem Photocatalytic Sequences. *ACS Catalysis*, **2021**, 11, 8829-8836	13.1	5
9	Evaluating heteroleptic copper(I)-based complexes bearing extended diimines in different photocatalytic processes. *Canadian Journal of Chemistry*, **2020**, 98, 461-465	0.9	4
8	Synthesis and Diversification of Macrocyclic Alkynediyl Sulfide Peptides. *Chemistry - A European Journal*, **2020**, 26, 14575-14579	4.8	3
7	Solvent and Additive Effects on Olefin Metathesis **2015**, 343-377		2
6	Alternative Strategies for the Construction of Macrocycles **2017**, 307-337		2
5	Synthesis of Chiral C 1-Symmetric N-Heterocyclic Carbene Ligands: Application toward Copper-Catalyzed Homocoupling of 2-Naphthols. *Synthesis*, **2014**, 46, 375-380	2.9	2
4	Computational Insight into Cu-Catalyzed C-S Coupling to Form a Macrocyclic Alkynyl Sulfide. *Journal of Organic Chemistry*, **2021**, 86, 5120-5128	4.2	0
3	Decomposition of Lignin Models Enabled by Copper-Based Photocatalysis Under Biphasic Conditions. *Green Chemistry*,	10	0
2	Cu(Xantphos)(dmp)BF4 **2014**, 1-3		
1	Implementing flow chemistry in education: the NSERC CREATE program in continuous flow science. *Journal of Flow Chemistry*, **2021**, 11, 13-17	3.3	