Anthony G Coyne

List of Publications by Year in Descending Order

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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.

54 papers	2,238 citations	19 h-index	47 g-index
78 ext. papers	2,522 ext. citations	8 avg, IF	5.35 L-index

#	Paper	IF	Citations
54	A new strategy for hit generation: Novel in cellulo active inhibitors of CYP121A1 from Mycobacterium tuberculosis via a combined X-ray crystallographic and phenotypic screening approach (XP screen).. *European Journal of Medicinal Chemistry*, **2022**, 230, 114105	6.8	1
53	Targeting CoaBC through Chemical Inhibition of 4SPhosphopantothenoyl-l-cysteine Synthetase (CoaB) Activity. *ACS Infectious Diseases*, **2021**, 7, 1666-1679	5.5	0
52	A small-molecule inhibitor of the BRCA2-RAD51 interaction modulates RAD51 assembly and potentiates DNA damage-induced cell death. *Cell Chemical Biology*, **2021**, 28, 835-847.e5	8.2	4
51	Chris Abell 1957–2020. *Biochemist*, **2021**, 43, 45-45	0.5	
50	A fragment-based approach to assess the ligandability of ArgB, ArgC, ArgD and ArgF in the L-arginine biosynthetic pathway of. *Computational and Structural Biotechnology Journal*, **2021**, 19, 3491-3506	6.8	5
49	Inhibiting Mycobacterium tuberculosis CoaBC by targeting an allosteric site. *Nature Communications*, **2021**, 12, 143	17.4	4
48	Fragment-Based Design of InhA Inhibitors. *Journal of Medicinal Chemistry*, **2020**, 63, 4749-4761	8.3	14
47	Using a Fragment-Based Approach to Identify Alternative Chemical Scaffolds Targeting Dihydrofolate Reductase from. *ACS Infectious Diseases*, **2020**, 6, 2192-2201	5.5	2
46	Fragment-based discovery of a new class of inhibitors targeting mycobacterial tRNA modification. *Nucleic Acids Research*, **2020**, 48, 8099-8112	20.1	10
45	Covalent inactivation of Mycobacterium thermoresistibile inosine-5Smonophosphate dehydrogenase (IMPDH). *Bioorganic and Medicinal Chemistry Letters*, **2020**, 30, 126792	2.9	2
44	Targeting of Fumarate Hydratase from Using Allosteric Inhibitors with a Dimeric-Binding Mode. *Journal of Medicinal Chemistry*, **2019**, 62, 10586-10604	8.3	6
43	Structure-guided fragment-based drug discovery at the synchrotron: screening binding sites and correlations with hotspot mapping. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2019**, 377, 20180422	3	18
42	meta-Nitration of Arenes Bearing ortho/para Directing Group(s) Using C-H Borylation. *Chemistry - A European Journal*, **2019**, 25, 8018-8023	4.8	5
41	Development of Inhibitors against tRNA (mG37) Methyltransferase (TrmD) Using Fragment-Based Approaches. *Journal of Medicinal Chemistry*, **2019**, 62, 7210-7232	8.3	15
40	Allosteric Targeting of Aurora A Kinase Using Small Molecules: A Step Forward Towards Next Generation Medicines?. *Current Medicinal Chemistry*, **2019**, 26, 2234-2242	4.3	4
39	Allosteric Small-Molecule Serine/Threonine Kinase Inhibitors. *Advances in Experimental Medicine and Biology*, **2019**, 1163, 253-278	3.6	10
38	Structural insights into Escherichia coli phosphopantothenoylcysteine synthetase by native ion mobility-mass spectrometry. *Biochemical Journal*, **2019**, 476, 3125-3139	3.8	3

37	Fragment-Based Approach to Targeting Inosine-5Smonophosphate Dehydrogenase (IMPDH) from Mycobacterium tuberculosis. *Journal of Medicinal Chemistry*, **2018**, 61, 2806-2822	8.3	32
36	Fragment-based approaches to TB drugs. *Parasitology*, **2018**, 145, 184-195	2.7	13
35	Structural insights into the EthR-DNA interaction using native mass spectrometry. *Chemical Communications*, **2017**, 53, 3527-3530	5.8	15
34	Fragment Profiling Approach to Inhibitors of the Orphan M. tuberculosis P450 CYP144A1. *Biochemistry*, **2017**, 56, 1559-1572	3.2	5
33	Fragment Screening against the EthR-DNA Interaction by Native Mass Spectrometry. *Angewandte Chemie - International Edition*, **2017**, 56, 7488-7491	16.4	10
32	Fragment Screening against the EthRDNA Interaction by Native Mass Spectrometry. *Angewandte Chemie*, **2017**, 129, 7596-7599	3.6	1
31	Structural Characterization and Ligand/Inhibitor Identification Provide Functional Insights into the Mycobacterium tuberculosis Cytochrome P450 CYP126A1. *Journal of Biological Chemistry*, **2017**, 292, 1310-1329	5.4	11
30	Effect of DMSO on Protein Structure and Interactions Assessed by Collision-Induced Dissociation and Unfolding. *Analytical Chemistry*, **2017**, 89, 9976-9983	7.8	22
29	Mass spectrometry for fragment screening. *Essays in Biochemistry*, **2017**, 61, 465-473	7.6	12
28	Substrate Fragmentation for the Design of M. tuberculosis CYP121 Inhibitors. *ChemMedChem*, **2016**, 11, 1924-35	3.7	13
27	Insight into Protein Conformation and Subcharging by DMSO from Native Ion Mobility Mass Spectrometry. *ChemistrySelect*, **2016**, 1, 5686-5690	1.8	6
26	Spirooxindoles as novel 3D-fragment scaffolds: Synthesis and screening against CYP121 from M. tuberculosis. *Bioorganic and Medicinal Chemistry Letters*, **2016**, 26, 3735-40	2.9	13
25	Fragment-Based Approaches to the Development of Mycobacterium tuberculosis CYP121 Inhibitors. *Journal of Medicinal Chemistry*, **2016**, 59, 3272-302	8.3	41
24	Organic synthesis reactions on-water at the organic-liquid water interface. *Organic and Biomolecular Chemistry*, **2016**, 14, 9945-9960	3.9	128
23	Small-molecule inhibitors that target protein-protein interactions in the RAD51 family of recombinases. *ChemMedChem*, **2015**, 10, 296-303	3.7	31
22	Understanding "on-water" catalysis of organic reactions. Effects of H+ and Li+ ions in the aqueous phase and nonreacting competitor H-bond acceptors in the organic phase: on H2O versus on D2O for Huisgen cycloadditions. *Journal of Organic Chemistry*, **2015**, 80, 1809-17	4.2	35
21	Regioselective conversion of arenes to N-aryl-1,2,3-triazoles using C-H borylation. *Chemistry - A European Journal*, **2014**, 20, 11680-4	4.8	10
20	Water and organic synthesis: a focus on the in-water and on-water border. Reversal of the in-water Breslow hydrophobic enhancement of the normal endo-effect on crossing to on-water conditions for Huisgen cycloadditions with increasingly insoluble organic liquid and solid 2dipolarophiles. *Journal of Organic Chemistry*, **2013**, 78, 3276-91	4.2	42

19	Overcoming the limitations of fragment merging: rescuing a strained merged fragment series targeting Mycobacterium tuberculosis CYP121. *ChemMedChem*, **2013**, 8, 1451-6	3.7	25
18	Fragment-based approaches in drug discovery and chemical biology. *Biochemistry*, **2012**, 51, 4990-5003	3.2	315
17	Asymmetric electrocyclic reactions. *Chemical Society Reviews*, **2011**, 40, 4217-31	58.5	61
16	Trapping of palindromic ligands within native transthyretin prevents amyloid formation. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 20483-8	11.5	50
15	Water: nature's reaction enforcer--comparative effects for organic synthesis "in-water" and "on-water". *Chemical Reviews*, **2010**, 110, 6302-37	68.1	878
14	Drugging challenging targets using fragment-based approaches. *Current Opinion in Chemical Biology*, **2010**, 14, 299-307	9.7	70
13	Rhodium-catalysed asymmetric hydrosilylation of ketones using HETPHOX ligands. *Tetrahedron Letters*, **2007**, 48, 747-750	2	15
12	Organic synthesis in water: 1,3-dipolar cycloaddition reactions at ambient temperature with aqueous suspensions of solid reactants. *Tetrahedron Letters*, **2007**, 48, 3501-3503	2	40
11	Uncharacteristic thione behavior in a Huisgen cycloaddition reaction: a kinetic and theoretical study. *Tetrahedron Letters*, **2007**, 48, 6684-6687	2	8
10	The asymmetric synthesis of β-lactams: HETPHOX/Cu(I) mediated synthesis via the Kinugasa reaction. *Tetrahedron: Asymmetry*, **2007**, 18, 199-207		45
9	Water and the Huisgen Cycloaddition Reaction: A Focus on Polar Contributions to the Transition State in the Reactions of Dicyano(phthalazinium)methanide with Substituted Styrenes and Benzylidene Acetones. *Helvetica Chimica Acta*, **2005**, 88, 1611-1629	2	24
8	The influence of water on the rates of 1,3-dipolar cycloaddition reactions: trigger points for exponential rate increases in water-organic solvent mixtures. Water-super versus water-normal dipolarophiles. *Journal of the American Chemical Society*, **2004**, 126, 11923-9	16.4	66
7	Kinetic and synthetic influences of water and solvent-free conditions on 1,3-dipolar cycloaddition reactions: the phthalazinium and pyridazinium dicyanomethanide 1,3-dipoles: surprisingly successful synthetic methods. *Perkin Transactions II RSC*, **2002**, 1807-1815		36
6	The kinetic profile of phthalazinium-2-dicyanomethanide 1,3-dipole with 2-dipolarophiles: U-shaped dipolarophilic activity and classic type II dipole behaviour. Reaction rates and DFT calculations. *Perkin Transactions II RSC*, **2001**, 1781-1784		17
5	Regioselectivity and endo/exo selectivity in the cycloadditions of the phthalazinium dicyanomethanide 1,3-dipole with unsymmetrical alkene and alkyne dipolarophiles. Unexpected reversals of regiochemistry: a combined experimental and DFT theoretical study. *Journal of the Chemical Society, Perkin Transactions 1*, **2001**, 1391-1397		25
4	Ligand Design for Intermolecular Asymmetric Mizoroki-Heck Reactions405-431		5
3	The Development and Application of Rhodium-Catalyzed Hydroboration of Alkenes65-86		10
2	InhibitingMycobacterium tuberculosisCoaBC by targeting a new allosteric site		2

1	Potential therapeutic targets from Mycobacterium abscessus (Mab): recently reported efforts towards the discovery of novel antibacterial agents to treat Mab infections. *RSC Medicinal Chemistry*,	3.5	0