

Anthony G Coyne

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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	Water: nature's reaction enforcer--comparative effects for organic synthesis "in-water" and "on-water". <i>Chemical Reviews</i> , 2010 , 110, 6302-37	68.1	878
53	Fragment-based approaches in drug discovery and chemical biology. <i>Biochemistry</i> , 2012 , 51, 4990-5003	3.2	315
52	Organic synthesis reactions on-water at the organic-liquid water interface. <i>Organic and Biomolecular Chemistry</i> , 2016 , 14, 9945-9960	3.9	128
51	Drugging challenging targets using fragment-based approaches. <i>Current Opinion in Chemical Biology</i> , 2010 , 14, 299-307	9.7	70
50	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. <i>Journal of the American Chemical Society</i> , 2004 , 126, 11923-9	16.4	66
49	Asymmetric electrocyclic reactions. <i>Chemical Society Reviews</i> , 2011 , 40, 4217-31	58.5	61
48	Trapping of palindromic ligands within native transthyretin prevents amyloid formation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 20483-8	11.5	50
47	The asymmetric synthesis of β -lactams: HETPHOX/Cu(I) mediated synthesis via the Kinugasa reaction. <i>Tetrahedron: Asymmetry</i> , 2007 , 18, 199-207		45
46	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 2Edipolarophiles. <i>Journal of Organic Chemistry</i> , 2015 , 80, 2271-81	4.2	42
45	Fragment-Based Approaches to the Development of Mycobacterium tuberculosis CYP121 Inhibitors. <i>Journal of Medicinal Chemistry</i> , 2016 , 59, 3272-302	8.3	41
44	Organic synthesis in water: 1,3-dipolar cycloaddition reactions at ambient temperature with aqueous suspensions of solid reactants. <i>Tetrahedron Letters</i> , 2007 , 48, 3501-3503	2	40
43	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. <i>Perkin Transactions II RSC</i> , 2002 , 1807-1815		36
42	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 H ₂ O versus on D ₂ O for Huisgen cycloadditions. <i>Journal of Organic Chemistry</i> , 2015 , 80, 1809-17	4.2	35
41	Fragment-Based Approach to Targeting Inosine-5Smonophosphate Dehydrogenase (IMPDH) from Mycobacterium tuberculosis. <i>Journal of Medicinal Chemistry</i> , 2018 , 61, 2806-2822	8.3	32
40	Small-molecule inhibitors that target protein-protein interactions in the RAD51 family of recombinases. <i>ChemMedChem</i> , 2015 , 10, 296-303	3.7	31
39	Overcoming the limitations of fragment merging: rescuing a strained merged fragment series targeting Mycobacterium tuberculosis CYP121. <i>ChemMedChem</i> , 2013 , 8, 1451-6	3.7	25
38	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. <i>Journal of the Chemical Society, Perkin Transactions 1</i> , 2001 , 1331-1337		25

37	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 Benzyldene Acetones. <i>Helvetica Chimica Acta</i> , 2005 , 88, 1611-1629	2	24
36	Effect of DMSO on Protein Structure and Interactions Assessed by Collision-Induced Dissociation and Unfolding. <i>Analytical Chemistry</i> , 2017 , 89, 9976-9983	7.8	22
35	Structure-guided fragment-based drug discovery at the synchrotron: screening binding sites and correlations with hotspot mapping. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2019 , 377, 20180422	3	18
34	The kinetic profile of phthalazinium-2-dicyanomethanide 1,3-dipole with 2Edipolarophiles: U-shaped dipolarophilic activity and classic type II dipole behaviour. Reaction rates and DFT calculations. <i>Perkin Transactions II RSC</i> , 2001 , 1781-1784		17
33	Structural insights into the EthR-DNA interaction using native mass spectrometry. <i>Chemical Communications</i> , 2017 , 53, 3527-3530	5.8	15
32	Development of Inhibitors against tRNA (mG37) Methyltransferase (TrmD) Using Fragment-Based Approaches. <i>Journal of Medicinal Chemistry</i> , 2019 , 62, 7210-7232	8.3	15
31	Rhodium-catalysed asymmetric hydrosilylation of ketones using HETPHOX ligands. <i>Tetrahedron Letters</i> , 2007 , 48, 747-750	2	15
30	Fragment-Based Design of InhA Inhibitors. <i>Journal of Medicinal Chemistry</i> , 2020 , 63, 4749-4761	8.3	14
29	Fragment-based approaches to TB drugs. <i>Parasitology</i> , 2018 , 145, 184-195	2.7	13
28	Substrate Fragmentation for the Design of M. tuberculosis CYP121 Inhibitors. <i>ChemMedChem</i> , 2016 , 11, 1924-35	3.7	13
27	Spirooxindoles as novel 3D-fragment scaffolds: Synthesis and screening against CYP121 from M. tuberculosis. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2016 , 26, 3735-40	2.9	13
26	Mass spectrometry for fragment screening. <i>Essays in Biochemistry</i> , 2017 , 61, 465-473	7.6	12
25	Structural Characterization and Ligand/Inhibitor Identification Provide Functional Insights into the Mycobacterium tuberculosis Cytochrome P450 CYP126A1. <i>Journal of Biological Chemistry</i> , 2017 , 292, 1310-1329	5.4	11
24	Fragment Screening against the EthR-DNA Interaction by Native Mass Spectrometry. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 7488-7491	16.4	10
23	Fragment-based discovery of a new class of inhibitors targeting mycobacterial tRNA modification. <i>Nucleic Acids Research</i> , 2020 , 48, 8099-8112	20.1	10
22	Regioselective conversion of arenes to N-aryl-1,2,3-triazoles using C-H borylation. <i>Chemistry - A European Journal</i> , 2014 , 20, 11680-4	4.8	10
21	The Development and Application of Rhodium-Catalyzed Hydroboration of Alkenes		10
20	Allosteric Small-Molecule Serine/Threonine Kinase Inhibitors. <i>Advances in Experimental Medicine and Biology</i> , 2019 , 1163, 253-278	3.6	10

19	Uncharacteristic thione behavior in a Huisgen cycloaddition reaction: a kinetic and theoretical study. <i>Tetrahedron Letters</i> , 2007 , 48, 6684-6687	2	8
18	Targeting of Fumarate Hydratase from Using Allosteric Inhibitors with a Dimeric-Binding Mode. <i>Journal of Medicinal Chemistry</i> , 2019 , 62, 10586-10604	8.3	6
17	Insight into Protein Conformation and Subcharging by DMSO from Native Ion Mobility Mass Spectrometry. <i>ChemistrySelect</i> , 2016 , 1, 5686-5690	1.8	6
16	Fragment Profiling Approach to Inhibitors of the Orphan M. tuberculosis P450 CYP144A1. <i>Biochemistry</i> , 2017 , 56, 1559-1572	3.2	5
15	meta-Nitration of Arenes Bearing ortho/para Directing Group(s) Using C-H Borylation. <i>Chemistry - A European Journal</i> , 2019 , 25, 8018-8023	4.8	5
14	Ligand Design for Intermolecular Asymmetric Mizoroki-Hickel Reactions	405-431	5
13	A fragment-based approach to assess the ligandability of ArgB, ArgC, ArgD and ArgF in the L-arginine biosynthetic pathway of. <i>Computational and Structural Biotechnology Journal</i> , 2021 , 19, 3491-3506	6.8	5
12	Allosteric Targeting of Aurora A Kinase Using Small Molecules: A Step Forward Towards Next Generation Medicines?. <i>Current Medicinal Chemistry</i> , 2019 , 26, 2234-2242	4.3	4
11	A small-molecule inhibitor of the BRCA2-RAD51 interaction modulates RAD51 assembly and potentiates DNA damage-induced cell death. <i>Cell Chemical Biology</i> , 2021 , 28, 835-847.e5	8.2	4
10	Inhibiting Mycobacterium tuberculosis CoaBC by targeting an allosteric site. <i>Nature Communications</i> , 2021 , 12, 143	17.4	4
9	Structural insights into Escherichia coli phosphopantothienoylcysteine synthetase by native ion mobility-mass spectrometry. <i>Biochemical Journal</i> , 2019 , 476, 3125-3139	3.8	3
8	Using a Fragment-Based Approach to Identify Alternative Chemical Scaffolds Targeting Dihydrofolate Reductase from. <i>ACS Infectious Diseases</i> , 2020 , 6, 2192-2201	5.5	2
7	Inhibiting Mycobacterium tuberculosis CoaBC by targeting a new allosteric site		2
6	Covalent inactivation of Mycobacterium thermoresistibile inosine-5Smonophosphate dehydrogenase (IMPDH). <i>Bioorganic and Medicinal Chemistry Letters</i> , 2020 , 30, 126792	2.9	2
5	Fragment Screening against the EthR-DNA Interaction by Native Mass Spectrometry. <i>Angewandte Chemie</i> , 2017 , 129, 7596-7599	3.6	1
4	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).. <i>European Journal of Medicinal Chemistry</i> , 2022 , 230, 114105	6.8	1
3	Targeting CoaBC through Chemical Inhibition of 4SPhosphopantothienoyl-L-cysteine Synthetase (CoaB) Activity. <i>ACS Infectious Diseases</i> , 2021 , 7, 1666-1679	5.5	0
2	Potential therapeutic targets from Mycobacterium abscessus (Mab): recently reported efforts towards the discovery of novel antibacterial agents to treat Mab infections. <i>RSC Medicinal Chemistry</i> ,	3.5	0

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