Rebecca T Ruck

List of Publications by Year
in descending order

28 papers	1,068 citations	516215 16 h-index	500791 28 g-index
31 all docs	31 docs citations	31 times ranked	1385 citing authors

#	Article	IF	Citations
1	Cobalt-catalyzed asymmetric hydrogenation of enamides enabled by single-electron reduction. Science, 2018, 360, 888-893.	6.0	219
2	Palladiumâ€Catalyzed Tandem Heck Reaction/Cï£¿H Functionalizationâ€"Preparation of Spiroâ€Indaneâ€Oxindoles. Angewandte Chemie - International Edition, 2008, 47, 4711-4714.	7.2	169
3	A multifunctional catalyst that stereoselectively assembles prodrugs. Science, 2017, 356, 426-430.	6.0	116
4	Rhodium-Catalyzed Asymmetric Hydroamination of Allyl Amines. Journal of the American Chemical Society, 2019, 141, 739-742.	6.6	62
5	A kinase-cGAS cascade to synthesize a therapeutic STING activator. Nature, 2022, 603, 439-444.	13.7	58
6	Green iodination of pyrazoles with iodine/hydrogen peroxide in water. Tetrahedron Letters, 2008, 49, 4026-4028.	0.7	46
7	Discovery of Ruzasvir (MK-8408): A Potent, Pan-Genotype HCV NS5A Inhibitor with Optimized Activity against Common Resistance-Associated Polymorphisms. Journal of Medicinal Chemistry, 2017, 60, 290-306.	2.9	42
8	Asymmetric Synthesis of Functionalized trans-Cyclopropoxy Building Block for Grazoprevir. Organic Letters, 2017, 19, 5880-5883.	2.4	28
9	Asymmetric Hydrogen Bonding Catalysis for the Synthesis of Dihydroquinazoline-Containing Antiviral, Letermovir. Journal of the American Chemical Society, 2017, 139, 10637-10640.	6.6	28
10	Gender Diversity in Process Chemistry. Organic Process Research and Development, 2019, 23, 109-113.	1.3	28
11	Using an Automated Monitoring Platform for Investigations of Biphasic Reactions. ACS Catalysis, 2019, 9, 11484-11491.	5.5	27
12	Merckâ€™s Reaction Review Policy: An Exercise in Process Safety. Organic Process Research and Development, 2013, 17, 1611-1616.	1.3	26
13	Development of a Green and Sustainable Manufacturing Process for Gefapixant Citrate (MK-7264) Part 1: Introduction and Process Overview. Organic Process Research and Development, 2020, 24, 2445-2452.	1.3	25
14	A rational pre-catalyst design for bis-phosphine mono-oxide palladium catalyzed reactions. Chemical Science, 2017, 8, 2841-2851.	3.7	24
15	Combining traditional 2D and modern physical organic-derived descriptors to predict enhanced enantioselectivity for the key aza-Michael conjugate addition in the synthesis of Prevymisâ„¢ (letermovir). Chemical Science, 2018, 9, 6922-6927.	3.7	22
16	A Modular Synthesis of 2-Alkyl- and 2-Arylchromans via a Three-Step Sequence. Synthesis, 2017, 49, 657-666.	1.2	21
17	Efficient synthesis of antiviral agent uprifosbuvir enabled by new synthetic methods. Chemical Science, 2021, 12, 9031-9036.	3.7	14
18	Application of Machine Learning and Reaction Optimization for the Iterative Improvement of Enantioselectivity of Cinchona-Derived Phase Transfer Catalysts. Organic Process Research and Development, 2022, 26, 670-682.	1.3	14

#	Article	IF	Citations
19	Structureâ€“activity relationships of proline modifications around the tetracyclic-indole class of NS5A inhibitors. Bioorganic and Medicinal Chemistry Letters, 2016, 26, 5354-5360.	1.0	12
20	Discovery of MK-6169, a Potent Pan-Genotype Hepatitis C Virus NS5A Inhibitor with Optimized Activity against Common Resistance-Associated Substitutions. Journal of Medicinal Chemistry, 2018, 61, 3984-4003.	2.9	12
21	Harnessing the Power of Catalysis for the Synthesis of CRTH2 Antagonist MK-1029. Organic Process Research and Development, 2022, 26, 648-656.	1.3	12
22	Route Development and Multikilogram GMP Delivery of a Somatostatin Receptor Antagonist. Organic Process Research and Development, 2012, 16, 1329-1337.	1.3	11
23	A Synthesis of a Spirocyclic Macrocyclic Protease Inhibitor for the Treatment of Hepatitis C. Organic Letters, 2016, 18, 1394-1397.	2.4	10
24	The protecting-group free selective 3â€²-functionalization of nucleosides. Chemical Science, 2017, 8, 2804-2810.	3.7	10
25	New reactions and processes for the efficient synthesis of a HCV NS5b prodrug. Green Chemistry, 2018, 20, 2519-2525.	4.6	10
26	Bio- and Chemocatalysis for the Synthesis of Late Stage SAR-Enabling Intermediates for ROMK Inhibitors and MK-7145 for the Treatment of Hypertension and Heart Failure. Organic Process Research and Development, 2021, 25, 405-410.	1.3	8
27	Update to Editorial â€œGender Diversity in Process Chemistryâ€. Organic Process Research and Development, 2021, 25, 349-353.	1.3	6
28	Eric Jacobsen and Gender Diversity in Organic Chemistry. Advanced Synthesis and Catalysis, 2020, 362, 285-286.	2.1	0