

Rebecca T Ruck

List of Publications by Year in descending order

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Version: 2024-02-01

28
papers

1,068
citations

516215

16
h-index

500791

28
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all docs

31
docs citations

31
times ranked

1385
citing authors

#	ARTICLE	IF	CITATIONS
1	Harnessing the Power of Catalysis for the Synthesis of CRTH2 Antagonist MK-1029. <i>Organic Process Research and Development</i> , 2022, 26, 648-656.	1.3	12
2	Application of Machine Learning and Reaction Optimization for the Iterative Improvement of Enantioselectivity of Cinchona-Derived Phase Transfer Catalysts. <i>Organic Process Research and Development</i> , 2022, 26, 670-682.	1.3	14
3	A kinase-cGAS cascade to synthesize a therapeutic STING activator. <i>Nature</i> , 2022, 603, 439-444.	13.7	58
4	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. <i>Organic Process Research and Development</i> , 2021, 25, 405-410.	1.3	8
5	Efficient synthesis of antiviral agent uprifosbuvir enabled by new synthetic methods. <i>Chemical Science</i> , 2021, 12, 9031-9036.	3.7	14
6	Update to Editorial "Gender Diversity in Process Chemistry". <i>Organic Process Research and Development</i> , 2021, 25, 349-353.	1.3	6
7	Development of a Green and Sustainable Manufacturing Process for Gefapixant Citrate (MK-7264) Part 1: Introduction and Process Overview. <i>Organic Process Research and Development</i> , 2020, 24, 2445-2452.	1.3	25
8	Eric Jacobsen and Gender Diversity in Organic Chemistry. <i>Advanced Synthesis and Catalysis</i> , 2020, 362, 285-286.	2.1	0
9	Gender Diversity in Process Chemistry. <i>Organic Process Research and Development</i> , 2019, 23, 109-113.	1.3	28
10	Using an Automated Monitoring Platform for Investigations of Biphasic Reactions. <i>ACS Catalysis</i> , 2019, 9, 11484-11491.	5.5	27
11	Rhodium-Catalyzed Asymmetric Hydroamination of Allyl Amines. <i>Journal of the American Chemical Society</i> , 2019, 141, 739-742.	6.6	62
12	Discovery of MK-6169, a Potent Pan-Genotype Hepatitis C Virus NS5A Inhibitor with Optimized Activity against Common Resistance-Associated Substitutions. <i>Journal of Medicinal Chemistry</i> , 2018, 61, 3984-4003.	2.9	12
13	New reactions and processes for the efficient synthesis of a HCV NS5b prodrug. <i>Green Chemistry</i> , 2018, 20, 2519-2525.	4.6	10
14	Cobalt-catalyzed asymmetric hydrogenation of enamides enabled by single-electron reduction. <i>Science</i> , 2018, 360, 888-893.	6.0	219
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 Prevmis [®] (letermovir). <i>Chemical Science</i> , 2018, 9, 6922-6927.	3.7	22
16	A rational pre-catalyst design for bis-phosphine mono-oxide palladium catalyzed reactions. <i>Chemical Science</i> , 2017, 8, 2841-2851.	3.7	24
17	The protecting-group free selective 3 [′] -functionalization of nucleosides. <i>Chemical Science</i> , 2017, 8, 2804-2810.	3.7	10
18	A multifunctional catalyst that stereoselectively assembles prodrugs. <i>Science</i> , 2017, 356, 426-430.	6.0	116

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19	Asymmetric Synthesis of Functionalized <i>trans</i> -Cyclopropoxy Building Block for Grazoprevir. <i>Organic Letters</i> , 2017, 19, 5880-5883.	2.4	28
20	Asymmetric Hydrogen Bonding Catalysis for the Synthesis of Dihydroquinazoline-Containing Antiviral, Letemovir. <i>Journal of the American Chemical Society</i> , 2017, 139, 10637-10640.	6.6	28
21	A Modular Synthesis of 2-Alkyl- and 2-Arylchromans via a Three-Step Sequence. <i>Synthesis</i> , 2017, 49, 657-666.	1.2	21
22	Discovery of Ruzasvir (MK-8408): A Potent, Pan-Genotype HCV NS5A Inhibitor with Optimized Activity against Common Resistance-Associated Polymorphisms. <i>Journal of Medicinal Chemistry</i> , 2017, 60, 290-306.	2.9	42
23	Structure-activity relationships of proline modifications around the tetracyclic-indole class of NS5A inhibitors. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2016, 26, 5354-5360.	1.0	12
24	A Synthesis of a Spirocyclic Macrocyclic Protease Inhibitor for the Treatment of Hepatitis C. <i>Organic Letters</i> , 2016, 18, 1394-1397.	2.4	10
25	Merck's Reaction Review Policy: An Exercise in Process Safety. <i>Organic Process Research and Development</i> , 2013, 17, 1611-1616.	1.3	26
26	Route Development and Multikilogram GMP Delivery of a Somatostatin Receptor Antagonist. <i>Organic Process Research and Development</i> , 2012, 16, 1329-1337.	1.3	11
27	Palladium-Catalyzed Tandem Heck Reaction/ CH Functionalization Preparation of Spiroindane Oxindoles. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 4711-4714.	7.2	169
28	Green iodination of pyrazoles with iodine/hydrogen peroxide in water. <i>Tetrahedron Letters</i> , 2008, 49, 4026-4028.	0.7	46