Katherine S Ryan

List of Publications by Year
in descending order

38 papers	1,677 citations	430754 18 h-index	330025 37 g-index
42 all docs	42 docs citations	42 times ranked	1995 citing authors

#	Article	IF	Citations
1	Synthetic and biosynthetic routes to nitrogenâ€“nitrogen bonds. Chemical Society Reviews, 2022, 51, 2991-3046.	18.7	37
2	Dentigerumycin F and G: Dynamic structures retrieved through a genome-mining/nitrogen-NMR methodology. Tetrahedron Letters, 2022, 94, 153688.	0.7	3
3	Natural Products Produced in Culture by Biosynthetically Talented Salinispora arenicola Strains Isolated from Northeastern and South Pacific Marine Sediments. Molecules, 2022, 27, 3569.	1.7	1
4	An engineered biosynthaticâ€“synthetic platform for production of halogenated indolmycin antibiotics. Chemical Science, 2021, 12, 8817-8821.	3.7	2
5	Glycine-derived nitronates bifurcate to O-methylation or denitrification in bacteria. Nature Chemistry, 2021, 13, 599-606.	6.6	10
6	N-Glycan Degradation Pathways in Gut- and Soil-Dwelling Actinobacteria Share Common Core Genes. ACS Chemical Biology, 2021, 16, 701-711.	1.6	6
7	Generating a fucose permease deletion mutant in Bifidobacterium longum subspecies infantis ATCC 15697. Anaerobe, 2021, 68, 102320.	1.0	3
8	Biocatalysis. Nature Reviews Methods Primers, 2021, 1, .	11.8	255
9	A shared mechanistic pathway for pyridoxal phosphateâ€“dependent arginine oxidases. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	7
10	The Biosynthetic Gene Cluster of Pyrazomycinâ€”A Câ€Nucleoside Antibiotic with a Rare Pyrazole Moiety. ChemBioChem, 2020, 21, 644-649.	1.3	38
11	Biosynthetic Pathways to Nonproteinogenic Î±-Amino Acids. Chemical Reviews, 2020, 120, 3161-3209.	23.0	94
12	Biosynthesis of the Nâ€“Nâ€Bondâ€Containing Compound <scp>l</scp>â€Alanosine. Angewandte Chemie - International Edition, 2020, 59, 3881-3885.	7.2	35
13	Biosynthesis of the Nâ€“Nâ€Bondâ€Containing Compound l â€Alanosine. Angewandte Chemie, 2020, 132, 3909-3913.	1.6	9
14	Expansion of Gamma-Butyrolactone Signaling Molecule Biosynthesis to Phosphotriester Natural Products. ACS Chemical Biology, 2020, 15, 3253-3261.	1.6	8
15	Editorial: Mechanistic biology in the biosynthesis of specialized metabolites. Current Opinion in Chemical Biology, 2020, 59, A1-A3.	2.8	0
16	Comparative Genomics Identified a Genetic Locus in Plant-Associated Pseudomonas spp. That Is Necessary for Induced Systemic Susceptibility. MBio, 2020, 11, .	1.8	9
17	Emergence of oxygenâ€•and pyridoxal phosphateâ€•dependent reactions. FEBS Journal, 2020, 287, 1403-1428.	2.2	29
18	Incarnatapeptins A and B, Nonribosomal Peptides Discovered Using Genome Mining and ¹H/¹⁵N HSQC-TOCSY. Organic Letters, 2020, 22, 4053-4057.	2.4	14

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19	Convergent biosynthetic transformations to a bacterial specialized metabolite. Nature Chemical Biology, 2019, 15, 1043-1048.	3.9	10
20	An Asymmetric Reductase That Intercepts Acyclic Imino Acids Produced in Situ by a Partner Oxidase. Journal of the American Chemical Society, 2019, 141, 12258-12267.	6.6	5
21	Inâ€...vitro Reconstitution of the Biosynthetic Pathway to the Nitroimidazole Antibiotic Azomycin. Angewandte Chemie - International Edition, 2019, 58, 11647-11651.	7.2	36
22	Inâ€...vitro Reconstitution of the Biosynthetic Pathway to the Nitroimidazole Antibiotic Azomycin. Angewandte Chemie, 2019, 131, 11773-11777.	1.6	2
23	Piperazic acid-containing natural products: structures and biosynthesis. Natural Product Reports, 2019, 36, 1628-1653.	5.2	53
24	Two-Enzyme Pathway Links <scp>l</scp>-Arginine to Nitric Oxide in N-Nitroso Biosynthesis. Journal of the American Chemical Society, 2019, 141, 4026-4033.	6.6	64
25	Pyridoxal phosphate-dependent reactions in the biosynthesis of natural products. Natural Product Reports, 2019, 36, 430-457.	5.2	75
26	Snapshots of the Catalytic Cycle of an O₂, Pyridoxal Phosphate-Dependent Hydroxylase. ACS Chemical Biology, 2018, 13, 965-974.	1.6	12
27	Metalloenzymes in natural product biosynthetic pathways. Natural Product Reports, 2018, 35, 612-614.	5.2	4
28	Snapshots of the catalytic cycle of an O 2 , pyridoxal phosphateâ€dependent hydroxylase. FASEB Journal, 2018, 32, 796.35.	0.2	0
29	A heme-dependent enzyme forms the nitrogenâ€“nitrogen bond in piperazate. Nature Chemical Biology, 2017, 13, 836-838.	3.9	108
30	A pyridoxal phosphateâ€“dependent enzyme that oxidizes an unactivated carbon-carbon bond. Nature Chemical Biology, 2016, 12, 194-199.	3.9	37
31	Catalytic repertoire of bacterial bisindole formation. Current Opinion in Chemical Biology, 2016, 31, 74-81.	2.8	14
32	Reduced deformability of parasitized red blood cells as a biomarker for anti-malarial drug efficacy. Malaria Journal, 2015, 14, 428.	0.8	17
33	In vitro reconstitution of indolmycin biosynthesis reveals the molecular basis of oxazolinone assembly. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 2717-2722.	3.3	51
34	Expansion of Bisindole Biosynthetic Pathways by Combinatorial Construction. ACS Synthetic Biology, 2015, 4, 682-688.	1.9	22
35	Biosynthetic Manipulation of Tryptophan in Bacteria: Pathways and Mechanisms. Chemistry and Biology, 2015, 22, 317-328.	6.2	142
36	Direct cloning and refactoring of a silent lipopeptide biosynthetic gene cluster yields the antibiotic taromycin A. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 1957-1962.	3.3	403

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37	N-Carbamoylation of 2,4-Diaminobutyrate Reroutes the Outcome in Padanamide Biosynthesis. Chemistry and Biology, 2013, 20, 1002-1011.	6.2	24
38	Biosynthetic Gene Cluster for the Cladoniamides, Bis-Indoles with a Rearranged Scaffold. PLoS ONE, 2011, 6, e23694.	1.1	34