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Nitrile reductase as a biocatalyst: opportunities and challenges

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Catalysis Science and Technology, 2014, 4, 2871-2876.

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#	Paper	IF	Citations
20	The Nitrile-Forming Enzyme 7-Cyano-7-Deazaguanine Synthase from <i>Geobacillus kaustophilus</i> : A Reverse Nitrilase?. <i>ChemBioChem</i> , 2015 , 16, 2373-8	3.8	4
19	Insight into Enzymatic Nitrile Reduction: QM/MM Study of the Catalytic Mechanism of QueF Nitrile Reductase. <i>ACS Catalysis</i> , 2015 , 5, 3740-3751	13.1	28
18	A convenient synthetic route to substituted pyrrolo[2,3-b]pyridines via a novel ethylene-bridged compound. <i>Tetrahedron Letters</i> , 2015 , 56, 6606-6609	2	4
17	Enantioselective conjugate addition of cyanide to chalcones catalyzed by a magnesium-Py-BINMOL complex. <i>Catalysis Science and Technology</i> , 2015 , 5, 4755-4759	5.5	15
16	Substrate and cofactor binding to nitrile reductase: a mass spectrometry based study. <i>Catalysis Science and Technology</i> , 2016 , 6, 7391-7397	5.5	5
15	Recyclable bifunctional aluminum salen catalyst for CO ₂ fixation: the efficient formation of five-membered heterocyclic compounds. <i>Science China Chemistry</i> , 2017 , 60, 979-989	7.9	21
14	Iron-Catalyzed Ring-Opening/Allylation of Cyclobutanone Oxime Esters with Allylic Sulfones. <i>Advanced Synthesis and Catalysis</i> , 2018 , 360, 1775-1779	5.6	53
13	Redox-Neutral Cyanoalkylation/Cyclization of Olefinic 1,3-Dicarbonyls with Cycloketone Oxime Esters: Access to Cyanoalkylated Dihydrofurans. <i>Journal of Organic Chemistry</i> , 2018 , 83, 4239-4249	4.2	38
12	A Single Mutation Increases the Activity and Stability of <i>Pectobacterium carotovorum</i> Nitrile Reductase. <i>ChemBioChem</i> , 2018 , 19, 521-526	3.8	3
11	A photoredox catalyzed iminyl radical-triggered C-C bond cleavage/addition/Kornblum oxidation cascade of oxime esters and styrenes: synthesis of ketonitriles. <i>Chemical Communications</i> , 2018 , 54, 12262-12265	5.8	62
10	Generation of novel family of reductases from PCR based library for the synthesis of chiral alcohols and amines. <i>Enzyme and Microbial Technology</i> , 2018 , 118, 83-91	3.8	
9	Design and Development of a Heterogeneous Catalyst for the Michael Addition of Malononitrile to 2-Enoylpyridines: Influence of the Primary Amide Decorated Framework on Catalytic Activity and Selectivity. <i>Inorganic Chemistry</i> , 2019 , 58, 12547-12554	5.1	6
8	Interplay of nucleophilic catalysis with proton transfer in the nitrile reductase QueF from <i>Escherichia coli</i> . <i>Catalysis Science and Technology</i> , 2019 , 9, 842-853	5.5	2
7	Broadening the Scope of Biocatalysis in Sustainable Organic Synthesis. <i>ChemSusChem</i> , 2019 , 12, 2859-2881	8.1	140
6	A Novel Ketonitrile Synthesis by Palladium-Catalyzed Carbonylative Coupling Reactions of Amides with Arylboronic Acids. <i>European Journal of Organic Chemistry</i> , 2019 , 2019, 7814-7819	3.2	1
5	New Role for a Commercially Available Bioinsecticide: Berliner Biodegrades the Pyrethroid Cypermethrin. <i>Environmental Science & Technology</i> , 2021 , 55, 4792-4803	10.3	7
4	Synthesis of Phenanthridine and Quinoxaline Derivatives via Copper-Catalyzed Radical Cyanoalkylation of Cyclobutanone Oxime Esters and Vinyl Azides. <i>Chinese Journal of Chemistry</i> , 2021 , 39, 1948-1952	4.9	2

3	A copper-catalyzed three-component reaction of alkenes, cycloketone oximes and DABCO[(SO ₂) ₂]: Direct C(sp ²)-H cyanoalkylsulfonylation. <i>Chinese Chemical Letters</i> , 2021 ,	8.1	3
2	Development of an Operationally Simple, Scalable, and HCN-Free Transfer Hydrocyanation Protocol Using an Air-Stable Nickel Precatalyst. <i>Organic Process Research and Development</i> ,	3.9	1
1	A GFET Nitrile Sensor Using a Graphene-Binding Fusion Protein. 2207669		1