

# Kathiravan Murugesan

## List of Publications by Year in descending order

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Version: 2024-02-01

27  
papers

1,885  
citations

361296

20  
h-index

580701

25  
g-index

28  
all docs

28  
docs citations

28  
times ranked

2088  
citing authors

#	ARTICLE	IF	CITATIONS
1	MOF-derived cobalt nanoparticles catalyze a general synthesis of amines. <i>Science</i> , 2017, 358, 326-332.	6.0	604
2	Catalytic reductive aminations using molecular hydrogen for synthesis of different kinds of amines. <i>Chemical Society Reviews</i> , 2020, 49, 6273-6328.	18.7	240
3	Simple ruthenium-catalyzed reductive amination enables the synthesis of a broad range of primary amines. <i>Nature Communications</i> , 2018, 9, 4123.	5.8	132
4	Reusable Nickel Nanoparticles-Catalyzed Reductive Amination for Selective Synthesis of Primary Amines. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 5064-5068.	7.2	94
5	Cobalt-based nanoparticles prepared from MOF-carbon templates as efficient hydrogenation catalysts. <i>Chemical Science</i> , 2018, 9, 8553-8560.	3.7	87
6	Photocatalytic (Hetero)arylation of C(sp <sup>3</sup> )-H Bonds with Carbon Nitride. <i>ACS Catalysis</i> , 2021, 11, 1593-1603.	5.5	74
7	Nickel-Catalyzed Stereodivergent Synthesis of E- and Z-Alkenes by Hydrogenation of Alkynes. <i>ChemSusChem</i> , 2019, 12, 3363-3369.	3.6	59
8	A General Catalyst Based on Cobalt Core-Shell Nanoparticles for the Hydrogenation of N-Heteroarenes Including Pyridines. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 17408-17412.	7.2	58
9	Homogeneous cobalt-catalyzed reductive amination for synthesis of functionalized primary amines. <i>Nature Communications</i> , 2019, 10, 5443.	5.8	57
10	Reductive amination using cobalt-based nanoparticles for synthesis of amines. <i>Nature Protocols</i> , 2020, 15, 1313-1337.	5.5	56
11	Cobalt-Nanoparticles Catalyzed Efficient and Selective Hydrogenation of Aromatic Hydrocarbons. <i>ACS Catalysis</i> , 2019, 9, 8581-8591.	5.5	52
12	Stable and reusable nanoscale Fe <sub>2</sub> O <sub>3</sub> -catalyzed aerobic oxidation process for the selective synthesis of nitriles and primary amides. <i>Green Chemistry</i> , 2018, 20, 266-273.	4.6	47
13	Levulinic Acid Derived Reusable Cobalt-Nanoparticles-Catalyzed Sustainable Synthesis of <sup>13</sup> C-Valerolactone. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 14756-14764.	3.2	42
14	Visible-Light-Promoted Metal-Free Synthesis of (Hetero)Aromatic Nitriles from C(sp <sup>3</sup> )-H Bonds**. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 2439-2445.	7.2	39
15	Reusable Nickel Nanoparticles-Catalyzed Reductive Amination for Selective Synthesis of Primary Amines. <i>Angewandte Chemie</i> , 2019, 131, 5118-5122.	1.6	32
16	Monodisperse nickel-nanoparticles for stereo- and chemoselective hydrogenation of alkynes to alkenes. <i>Journal of Catalysis</i> , 2019, 370, 372-377.	3.1	30
17	Expedient Synthesis of N-Methyl- and N-Alkylamines by Reductive Amination using Reusable Cobalt Oxide Nanoparticles. <i>ChemCatChem</i> , 2018, 10, 1235-1240.	1.8	29
18	General and selective synthesis of primary amines using Ni-based homogeneous catalysts. <i>Chemical Science</i> , 2020, 11, 4332-4339.	3.7	29

#	ARTICLE	IF	CITATIONS
19	Photocatalytic Reductive Radicalâ€Polar Crossover for a Baseâ€Free Coreyâ€Seebach Reaction. Chemistry - A European Journal, 2020, 26, 12945-12950.	1.7	28
20	Decarboxylative Ritter-Type Amination by Cooperative Iodine (I/III)â€Boron Lewis Acid Catalysis. ACS Catalysis, 2022, 12, 809-817.	5.5	28
21	Photoredox-Catalyzed Site-Selective Generation of Carbanions from C(sp <sup>3</sup> )â€H Bonds in Amines. ACS Catalysis, 2022, 12, 3974-3984.	5.5	20
22	Synthesis of Unnatural Î±-Amino Acid Derivatives via Photoredox Activation of Inert C(sp <sup>3</sup> )â€H Bonds. Organic Letters, 2022, 24, 4793-4797.	2.4	19
23	C(sp <sup>3</sup> )â€H Ritter amination by excitation of <i>in situ</i> generated iodine( <i>scp</i> )â€BF <sub>3</sub> complexes. Chemical Communications, 2022, 58, 8778-8781.	2.2	18
24	A General Catalyst Based on Cobalt Coreâ€Shell Nanoparticles for the Hydrogenation of Nâ€Heteroarenes Including Pyridines. Angewandte Chemie, 2020, 132, 17561-17565.	1.6	8
25	Visibleâ€Lightâ€Promoted Metalâ€Free Synthesis of (Hetero)Aromatic Nitriles from C(sp <sup>3</sup> )â€H Bonds**. Angewandte Chemie, 2021, 133, 2469-2475.	1.6	3
26	Expedient Synthesis of N -Methyl- and N -Alkylamines by Reductive Amination using Reusable Cobalt Oxide Nanoparticles. ChemCatChem, 2018, 10, 1205-1205.	1.8	0
27	Reductive N-alkylation of primary amides using nickel-nanoparticles. Tetrahedron, 2021, , 132526.	1.0	0