

Rajenahally V Jagadeesh

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

55 papers	3,949 citations	24 h-index	62 g-index
62 ext. papers	4,858 ext. citations	13.8 avg, IF	5.64 L-index

#	Paper	IF	Citations
55	Nanoscale Fe ₂ O ₃ -based catalysts for selective hydrogenation of nitroarenes to anilines. <i>Science</i> , 2013 , 342, 1073-6	33.3	704
54	Heterogenized cobalt oxide catalysts for nitroarene reduction by pyrolysis of molecularly defined complexes. <i>Nature Chemistry</i> , 2013 , 5, 537-43	17.6	513
53	MOF-derived cobalt nanoparticles catalyze a general synthesis of amines. <i>Science</i> , 2017 , 358, 326-332	33.3	416
52	Selective oxidation of alcohols to esters using heterogeneous Co ₃ O ₄ -N@C catalysts under mild conditions. <i>Journal of the American Chemical Society</i> , 2013 , 135, 10776-82	16.4	286
51	Efficient and highly selective iron-catalyzed reduction of nitroarenes. <i>Chemical Communications</i> , 2011 , 47, 10972-4	5.8	179
50	Transition-Metal-Catalyzed Utilization of Methanol as a C Source in Organic Synthesis. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 6384-6394	16.4	159
49	Green synthesis of nitriles using non-noble metal oxides-based nanocatalysts. <i>Nature Communications</i> , 2014 , 5, 4123	17.4	152
48	Nitrogen-Doped Graphene-Activated Iron-Oxide-Based Nanocatalysts for Selective Transfer Hydrogenation of Nitroarenes. <i>ACS Catalysis</i> , 2015 , 5, 1526-1529	13.1	126
47	Convenient and mild epoxidation of alkenes using heterogeneous cobalt oxide catalysts. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 4359-63	16.4	122
46	Highly selective transfer hydrogenation of functionalised nitroarenes using cobalt-based nanocatalysts. <i>Green Chemistry</i> , 2015 , 17, 898-902	10	109
45	Hydrogenation using iron oxide-based nanocatalysts for the synthesis of amines. <i>Nature Protocols</i> , 2015 , 10, 548-57	18.8	106
44	Cobalt-based nanocatalysts for green oxidation and hydrogenation processes. <i>Nature Protocols</i> , 2015 , 10, 916-26	18.8	96
43	Palladium-Catalyzed Trifluoromethylation of (Hetero)Arenes with CF ₃ Br. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 2782-6	16.4	95
42	Catalytic reductive aminations using molecular hydrogen for synthesis of different kinds of amines. <i>Chemical Society Reviews</i> , 2020 , 49, 6273-6328	58.5	84
41	Simple ruthenium-catalyzed reductive amination enables the synthesis of a broad range of primary amines. <i>Nature Communications</i> , 2018 , 9, 4123	17.4	83
40	Convenient iron-catalyzed reductive aminations without hydrogen for selective synthesis of N-methylamines. <i>Nature Communications</i> , 2017 , 8, 1344	17.4	57
39	Efficient and convenient palladium-catalyzed amination of allylic alcohols with N-heterocycles. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 11556-60	16.4	53

38	Reusable Nickel Nanoparticles-Catalyzed Reductive Amination for Selective Synthesis of Primary Amines. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 5064-5068	16.4	52
37	Cobalt-based nanoparticles prepared from MOF-carbon templates as efficient hydrogenation catalysts. <i>Chemical Science</i> , 2018 , 9, 8553-8560	9.4	51
36	"Nanorust"-catalyzed benign oxidation of amines for selective synthesis of nitriles. <i>ChemSusChem</i> , 2015 , 8, 92-6	8.3	50
35	Nickel-Catalyzed Stereodivergent Synthesis of E- and Z-Alkenes by Hydrogenation of Alkynes. <i>ChemSusChem</i> , 2019 , 12, 3363-3369	8.3	38
34	Bergangsmetallkatalysierte Nutzung von Methanol als C1-Quelle in der organischen Synthese. <i>Angewandte Chemie</i> , 2017 , 129, 6482-6492	3.6	36
33	Stable and reusable nanoscale Fe ₂ O ₃ -catalyzed aerobic oxidation process for the selective synthesis of nitriles and primary amides. <i>Green Chemistry</i> , 2018 , 20, 266-273	10	33
32	Homogeneous cobalt-catalyzed reductive amination for synthesis of functionalized primary amines. <i>Nature Communications</i> , 2019 , 10, 5443	17.4	30
31	Reductive amination using cobalt-based nanoparticles for synthesis of amines. <i>Nature Protocols</i> , 2020 , 15, 1313-1337	18.8	24
30	Levulinic Acid Derived Reusable Cobalt-Nanoparticles-Catalyzed Sustainable Synthesis of Valerolactone. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 14756-14764	8.3	24
29	Single-Atom (Iron-Based) Catalysts: Synthesis and Applications. <i>Chemical Reviews</i> , 2021 , 121, 13620-13698	28.1	23
28	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	16.4	22
27	Expedient Synthesis of N-Methyl- and N-Alkylamines by Reductive Amination using Reusable Cobalt Oxide Nanoparticles. <i>ChemCatChem</i> , 2018 , 10, 1235-1240	5.2	22
26	Ultra-small cobalt nanoparticles from molecularly-defined Co-salen complexes for catalytic synthesis of amines. <i>Chemical Science</i> , 2020 , 11, 2973-2981	9.4	21
25	Cobalt-Nanoparticles Catalyzed Efficient and Selective Hydrogenation of Aromatic Hydrocarbons. <i>ACS Catalysis</i> , 2019 , 9, 8581-8591	13.1	21
24	Synthesis of nitriles from amines using nanoscale Co ₃ O ₄ -based catalysts via sustainable aerobic oxidation. <i>Organic and Biomolecular Chemistry</i> , 2016 , 14, 3356-9	3.9	20
23	Convenient and Mild Epoxidation of Alkenes Using Heterogeneous Cobalt Oxide Catalysts. <i>Angewandte Chemie</i> , 2014 , 126, 4448-4452	3.6	19
22	Monodisperse nickel-nanoparticles for stereo- and chemoselective hydrogenation of alkynes to alkenes. <i>Journal of Catalysis</i> , 2019 , 370, 372-377	7.3	17
21	Scalable preparation of stable and reusable silica supported palladium nanoparticles as catalysts for N-alkylation of amines with alcohols. <i>Journal of Catalysis</i> , 2020 , 382, 141-149	7.3	17

20	Synthesis of Functional Chemicals from Lignin-derived Monomers by Selective Organic Transformations. <i>Advanced Synthesis and Catalysis</i> , 2020 , 362, 5143-5169	5.6	17
19	Reusable Nickel Nanoparticles-Catalyzed Reductive Amination for Selective Synthesis of Primary Amines. <i>Angewandte Chemie</i> , 2019 , 131, 5118-5122	3.6	12
18	Silica-supported Fe/FeO nanoparticles for the catalytic hydrogenation of nitriles to amines in the presence of aluminium additives. <i>Nature Catalysis</i> , 2022 , 5, 20-29	36.5	11
17	General and selective synthesis of primary amines using Ni-based homogeneous catalysts. <i>Chemical Science</i> , 2020 , 11, 4332-4339	9.4	10
16	Ambient Hydrogenation and Deuteration of Alkenes Using a Nanostructured Ni-Core-Shell Catalyst. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 18591-18598	16.4	8
15	Reusable Co-nanoparticles for general and selective α -alkylation of amines and ammonia with alcohols. <i>Chemical Science</i> , 2021 , 13, 111-117	9.4	5
14	Base Metal-Catalyzed C-Methylation Reactions Using Methanol. <i>Advanced Synthesis and Catalysis</i> ,	5.6	5
13	A Universal Catalyst for aerobic oxidations to synthesize (hetero)aromatic aldehydes, ketones, esters, acids, nitriles, and amides. <i>Chem</i> , 2022 , 8, 508-531	16.2	4
12	Synergetic Bimetallic Oxidative Esterification of 5-Hydroxymethylfurfural under Mild Conditions. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 ,	8.3	3
11	Cobalt single-atom catalysts for domino reductive amination and amidation of levulinic acid and related molecules to N-heterocycles. <i>Chem Catalysis</i> , 2022 , 2, 178-178		3
10	Ambient Hydrogenation and Deuteration of Alkenes Using a Nanostructured Ni-Core-Shell Catalyst. <i>Angewandte Chemie</i> , 2021 , 133, 18739-18746	3.6	3
9	A General Catalyst Based on Cobalt Core-Shell Nanoparticles for the Hydrogenation of N-Heteroarenes Including Pyridines. <i>Angewandte Chemie</i> , 2020 , 132, 17561-17565	3.6	2
8	Recent developments in reductive N-methylation with base-metal catalysts. <i>Tetrahedron</i> , 2021 , 98, 13241-13244	1.4	2
7	Frontispiece: Ambient Hydrogenation and Deuteration of Alkenes Using a Nanostructured Ni-Core-Shell Catalyst. <i>Angewandte Chemie - International Edition</i> , 2021 , 60,	16.4	1
6	Expedient Synthesis of N-Methyl- and N-Alkylamines by Reductive Amination using Reusable Cobalt Oxide Nanoparticles. <i>ChemCatChem</i> , 2018 , 10, 1205-1205	5.2	
5	Catalysis with MNPs on N-Doped Carbon. <i>Molecular Catalysis</i> , 2020 , 199-219	0.3	
4	Reductive N-alkylation of primary amides using nickel-nanoparticles. <i>Tetrahedron</i> , 2021 , 132526	2.4	
3	Copper-Catalyzed Aminations 2020 , 239-259		

2 Amines By Reduction1-34

1 Surface-modified nanomaterials for synthesis of pharmaceuticals **2022**, 251-266