

CITATION REPORT

List of articles citing

Heterogenized cobalt oxide catalysts for nitroarene reduction by pyrolysis of molecularly defined complexes

DOI: 10.1038/nchem.1645

Nature Chemistry, 2013, 5, 537-43.

Source: <https://exaly.com/paper-pdf/55947115/citation-report.pdf>

Version: 2024-04-20

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

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

#	Paper	IF	Citations
579	Isolated Iron Single-Atomic Site-Catalyzed Chemoselective Transfer Hydrogenation of Nitroarenes to Arylamines.		
578	Ultradispersed Nickel Phosphide on Phosphorus-Doped Carbon with Tailored dBand Center for Efficient and Chemoselective Hydrogenation of Nitroarenes.		
577	Co,N-Codoped Porous Carbon-Supported CoyZnS with Superior Activity for Nitroarene Hydrogenation.		
576	Hydrogenation of nitroarenes using defined iron-phosphine catalysts. 2013 , 49, 9089-91		66
575	Cobalt precursors for high-throughput discovery of base metal asymmetric alkene hydrogenation catalysts. 2013 , 342, 1076-80		285
574	Nanoscale Fe ₂ O ₃ -based catalysts for selective hydrogenation of nitroarenes to anilines. 2013 , 342, 1073-6		704
573	Selective oxidation of alcohols to esters using heterogeneous Co ₃ O ₄ -N@C catalysts under mild conditions. 2013 , 135, 10776-82		286
572	Platinum N-Heterocyclic Carbene Nanoparticles as New and Effective Catalysts for the Selective Hydrogenation of Nitroaromatics. <i>ChemCatChem</i> , 2014 , 6, 87-90	5.2	78
571	Photochemically engineering the metal-semiconductor interface for room-temperature transfer hydrogenation of nitroarenes with formic acid. <i>Chemistry - A European Journal</i> , 2014 , 20, 16732-7	4.8	40
570	Aerobic oxidation of hydroxymethylfurfural and furfural by using heterogeneous Cox Oy -N@C catalysts. 2014 , 7, 3334-40		87
569	FeOx-supported platinum single-atom and pseudo-single-atom catalysts for chemoselective hydrogenation of functionalized nitroarenes. 2014 , 5, 5634		708
568	Bio-inspired noble metal-free reduction of nitroarenes using NiS ₂ +x/g-C ₃ N ₄ . 2014 , 4, 60873-60877		15
567	Room-temperature chemoselective reduction of nitro groups using non-noble metal nanocatalysts in water. 2014 , 53, 2904-9		92
566	Cobalt-modified molybdenum carbide as an efficient catalyst for chemoselective reduction of aromatic nitro compounds. <i>Green Chemistry</i> , 2014 , 16, 1274-1281	10	105
565	Mild and Selective Hydrogenation of Nitro Compounds using Palladium Nanoparticles Supported on Amino-Functionalized Mesocellular Foam. <i>ChemCatChem</i> , 2014 , 6, 3153-3159	5.2	52
564	Synergistic effect from Lewis acid and the NiW ₂ C/AC catalyst for highly active and selective hydrogenation of aryl nitro to aryl amine. 2014 , 4, 22669-22677		17
563	Direct vs. indirect pathway for nitrobenzene reduction reaction on a Ni catalyst surface: a density functional study. 2014 , 16, 26365-74		81

562	Direct self-condensation of bio-alcohols in the aqueous phase. <i>Green Chemistry</i> , 2014 , 16, 3971-3977	10	45
561	Room-temperature transfer hydrogenation and fast separation of unsaturated compounds over heterogeneous catalysts in an aqueous solution of formic acid. <i>Green Chemistry</i> , 2014 , 16, 3746-3751	10	68
560	General and selective reductive amination of carbonyl compounds using a core-shell structured Co ₃ O ₄ /NGr@C catalyst. <i>Green Chemistry</i> , 2014 , 16, 4535-4540	10	83
559	Polymer supported palladium nanocrystals as efficient and recyclable catalyst for the reduction of nitroarenes to anilines under mild conditions in water. 2014 , 395, 307-314		51
558	Palladium(0)-catalyzed intramolecular decarboxylative allylation of ortho nitrobenzoic esters. 2014 , 16, 3934-7		15
557	Iron-catalyzed synthesis of secondary amines: on the way to green reductive aminations. 2014 , 7, 3012-6		64
556	Polymethylhydrosiloxane derived palladium nanoparticles for chemo- and regioselective hydrogenation of aliphatic and aromatic nitro compounds in water. 2014 , 4, 22567-22574		18
555	Iron and Palladium(II) Phthalocyanines as Recyclable Catalysts for Reduction of Nitroarenes. <i>Catalysis Letters</i> , 2014 , 144, 1258-1267	2.8	22
554	Selective synthesis of Rh ₅ carbonyl clusters within a polyamine dendrimer for chemoselective reduction of nitro aromatics. 2014 , 50, 6526-9		13
553	Active catalysts based on cobalt oxide@cobalt/N-C nanocomposites for oxygen reduction reaction in alkaline solutions. <i>Nano Research</i> , 2014 , 7, 1054-1064	10	65
552	Convenient and mild epoxidation of alkenes using heterogeneous cobalt oxide catalysts. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 4359-63	16.4	122
551	Green synthesis of nitriles using non-noble metal oxides-based nanocatalysts. 2014 , 5, 4123		152
550	Convenient and Mild Epoxidation of Alkenes Using Heterogeneous Cobalt Oxide Catalysts. <i>Angewandte Chemie</i> , 2014 , 126, 4448-4452	3.6	19
549	N-doped carbon networks: alternative materials tracing new routes for activating molecular hydrogen. <i>Chemistry - A European Journal</i> , 2015 , 21, 3806-14	4.8	10
548	Fabrication of Ruthenium Nanoparticles in Porous Organic Polymers: Towards Advanced Heterogeneous Catalytic Nanoreactors. <i>Chemistry - A European Journal</i> , 2015 , 21, 19016-27	4.8	64
547	A Mild and Chemoselective Reduction of Nitro and Azo Compounds Catalyzed by a Well-Defined Mo ₃ S ₄ Cluster Bearing Diamine Ligands. <i>ChemCatChem</i> , 2015 , 7, 2675-2681	5.2	32
546	Gold-Catalyzed Reductive Transformation of Nitro Compounds Using Formic Acid: Mild, Efficient, and Versatile. 2015 , 8, 3029-35		77
545	Magnetically Separable and Sustainable Nanostructured Catalysts for Heterogeneous Reduction of Nitroaromatics. <i>Catalysts</i> , 2015 , 5, 534-560	4	141

544	A new redox strategy for low-temperature formation of strong basicity on mesoporous silica. 2015 , 51, 10058-61		24
543	Cobalt-based nanocatalysts for green oxidation and hydrogenation processes. 2015 , 10, 916-26		96
542	Design and fabrication of mesoporous heterogeneous basic catalysts. 2015 , 44, 5092-147		271
541	Hydrogenation of nitroarenes with palladium nanoparticles stabilized by alkyne derivatives in homogeneous phase. 2015 , 56, 3913-3915		16
540	Syngas Production via Steam-CO ₂ Dual Reforming of Methane over LA-Ni/ZrO ₂ Catalyst Prepared by l-Arginine Ligand-Assisted Strategy: Enhanced Activity and Stability. 2015 , 3, 3461-3476		52
539	Base-Free Oxidation of Alcohols to Esters at Room Temperature and Atmospheric Conditions using Nanoscale Co-Based Catalysts. <i>ACS Catalysis</i> , 2015 , 5, 1850-1856	13.1	247
538	Encapsulation of Mono- or Bimetal Nanoparticles Inside Metal-Organic Frameworks via In situ Incorporation of Metal Precursors. 2015 , 11, 2642-8		73
537	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
536	The Hydroxylation of Aromatics with Oxygen by Vanadium Catalysts Supported on N-doped Carbon Materials. <i>Catalysis Letters</i> , 2015 , 145, 1014-1021	2.8	13
535	Chemoselective Transfer Hydrogenation of Aldehydes and Ketones with a Heterogeneous Iridium Catalyst in Water. <i>Catalysis Letters</i> , 2015 , 145, 1008-1013	2.8	22
534	High performance catalytic distillation using CNTs-based holistic catalyst for production of high quality biodiesel. 2014 , 4, 4021		17
533	Nanostructuring gold wires as highly durable nanocatalysts for selective reduction of nitro compounds and azides with organosilanes. <i>Nano Research</i> , 2015 , 8, 1365-1372	10	27
532	Cobalt and Iron Complexes with N-heterocyclic Ligands as Pyrolysis Precursors for Oxygen Reduction Catalysts. 2015 , 174, 66-77		39
531	Design of N-doped graphene-coated cobalt-based nanoparticles supported on ceria. 2015 , 3, 17728-17737		17
530	Synthesis and Characterization of Iron-Nitrogen-Doped Graphene/Core-Shell Catalysts: Efficient Oxidative Dehydrogenation of N-Heterocycles. 2015 , 137, 10652-8		223
529	A green and facile method toward synthesis of waste paper-derived 3D functional porous graphene via in situ activation of cobalt(II). 2015 , 3, 16072-16078		24
528	In Situ-Generated Co ₀ -Co ₃ O ₄ /N-Doped Carbon Nanotubes Hybrids as Efficient and Chemoselective Catalysts for Hydrogenation of Nitroarenes. <i>ACS Catalysis</i> , 2015 , 5, 4783-4789	13.1	290
527	Selective and recyclable rhodium nanocatalysts for the reductive N-alkylation of nitrobenzenes and amines with aldehydes. 2015 , 5, 56936-56941		20

526	Hydrogel-derived non-precious electrocatalysts for efficient oxygen reduction. 2015 , 5, 11739		21
525	Dual Optimization Approach to Bimetallic Nanoparticle Catalysis: Impact of M1/M2 Ratio and Supporting Polymer Structure on Reactivity. <i>ACS Catalysis</i> , 2015 , 5, 3457-3462	13.1	31
524	One-pot tandem catalysis over Pd@MIL-101: boosting the efficiency of nitro compound hydrogenation by coupling with ammonia borane dehydrogenation. 2015 , 51, 10419-22		137
523	Designing versatile heterogeneous catalysts based on Ag and Au nanoparticles decorated on chitosan functionalized graphene oxide. 2015 , 17, 11329-40		76
522	Iron oxide nanoparticles supported on activated carbon fibers catalyze chemoselective reduction of nitroarenes under mild conditions. <i>Catalysis Today</i> , 2015 , 249, 45-51	5.3	35
521	Co ^{III} Catalyst for C ^{II} Coupling Reactions: On the Catalytic Performance and Active Sites. <i>ACS Catalysis</i> , 2015 , 5, 6563-6572	13.1	205
520	Trinuclear {Co(2+)-M(3+)-Co(2+)} complexes catalyze reduction of nitro compounds. 2015 , 44, 17453-61		21
519	Nickel embedded in N-doped porous carbon for the hydrogenation of nitrobenzene to p-aminophenol in sulphuric acid. 2015 , 51, 17712-5		31
518	Transfer hydrogenation of nitroarenes into anilines by palladium nanoparticles via dehydrogenation of dimethylamine borane complex. 2015 , 5, 86529-86535		25
517	Oxygen-Deficient Tungsten Oxide as Versatile and Efficient Hydrogenation Catalyst. <i>ACS Catalysis</i> , 2015 , 5, 6594-6599	13.1	189
516	Selective Catalytic Hydrogenation of Heteroarenes with N-Graphene-Modified Cobalt Nanoparticles (Co ₃ O ₄ -Co/NGr@r-Al ₂ O ₃). 2015 , 137, 11718-24		176
515	Advancement in methodologies for reduction of nitroarenes. 2015 , 5, 83391-83407		194
514	Transfer hydrogenation of unsaturated bonds in the absence of base additives catalyzed by a cobalt-based heterogeneous catalyst. 2015 , 51, 2331-4		82
513	Palladium nanocrystals stabilized by cucurbit[6]uril as efficient heterogeneous catalyst for direct C ^{II} functionalization of polyfluoroarenes. 2015 , 321, 62-69		20
512	Synthesis of Amines by Reductive Amination of Aldehydes and Ketones using Co ₃ O ₄ /NGr@C Catalyst. <i>ChemCatChem</i> , 2015 , 7, 62-64	5.2	56
511	"Nanorust"-catalyzed benign oxidation of amines for selective synthesis of nitriles. 2015 , 8, 92-6		50
510	A simple method for the preparation of ultra-small palladium nanoparticles and their utilization for the hydrogenation of terminal alkyne groups to alkanes. 2015 , 7, 872-6		17
509	Highly selective transfer hydrogenation of functionalised nitroarenes using cobalt-based nanocatalysts. <i>Green Chemistry</i> , 2015 , 17, 898-902	10	109

508	Solvent-Free Selective Hydrogenation of Nitroarenes Using Nanoclusters of Palladium Supported on Nitrogen-Doped Ordered Mesoporous Carbon. <i>ChemCatChem</i> , 2016 , 8, 1485-1489	5.2	22
507	Recyclable and Selective Nitroarene Hydrogenation Catalysts Based on Carbon-Coated Cobalt Oxide Nanoparticles. <i>ChemCatChem</i> , 2016 , 8, 1132-1138	5.2	28
506	A Rhodium Nanoparticle-Lewis Acidic Ionic Liquid Catalyst for the Chemoselective Reduction of Heteroarenes. <i>Angewandte Chemie</i> , 2016 , 128, 300-304	3.6	28
505	A Rhodium Nanoparticle-Lewis Acidic Ionic Liquid Catalyst for the Chemoselective Reduction of Heteroarenes. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 292-6	16.4	84
504	Non-noble metal catalysts for hydrogenation: A facile method for preparing Co nanoparticles covered with thin layered carbon. 2016 , 340, 1-9		135
503	Preparation of a magnetically recoverable nanocatalyst via cobalt-doped Fe ₃ O ₄ nanoparticles and its application in the hydrogenation of nitroarenes. <i>Nano Research</i> , 2016 , 9, 1879-1890	10	33
502	Reduction of selective polyaromatic nitrotriptycene via an azoxytriptycene intermediate under ambient conditions using a cobalt/cobalt oxide nanocomposite (CoNC). 2016 , 6, 60602-60608		10
501	Sustainable Synthesis of 2-Arylbenzoxazoles over a Cobalt-Based Nanocomposite Catalyst. 2016 , 20, 1093-1096		15
500	Ni-based structured catalyst for selective 3-phase hydrogenation of nitroaromatics. <i>Catalysis Today</i> , 2016 , 273, 244-251	5.3	16
499	Iron Oxide as a Catalyst for Nitroarene Hydrogenation: Important Role of Oxygen Vacancies. 2016 , 55, 8527-8533		36
498	Activity and Selectivity in Nitroarene Hydrogenation over Au Nanoparticles on the Edge/Corner of Anatase. <i>ACS Catalysis</i> , 2016 , 6, 4110-4116	13.1	65
497	Immobilized ruthenium metal-containing ionic liquid-catalyzed dehydrogenation of dimethylamine borane complex for the reduction of olefins and nitroarenes. 2016 , 6, 52347-52352		11
496	Periodic density functional theory study of ethylene hydrogenation over Co ₃ O ₄ (1 1 1) surface: The critical role of oxygen vacancies. 2016 , 371, 61-66		21
495	Metal-Free Reduction of Aromatic Nitro Compounds to Aromatic Amines with B ₂ pin ₂ in Isopropanol. 2016 , 18, 2774-6		62
494	Nitrogen-doped porous carbon materials: promising catalysts or catalyst supports for heterogeneous hydrogenation and oxidation. <i>Catalysis Science and Technology</i> , 2016 , 6, 3670-3693	5.5	202
493	Chemoselective hydrogenation of functionalized nitroarenes using MOF-derived co-based catalysts. 2016 , 420, 56-65		67
492	High catalytic activity of mesoporous Co ₃ N/C catalysts for aerobic oxidative synthesis of nitriles. <i>Catalysis Science and Technology</i> , 2016 , 6, 5746-5753	5.5	42
491	Sustainable iron-catalyzed direct imine formation by acceptorless dehydrogenative coupling of alcohols with amines. <i>Green Chemistry</i> , 2016 , 18, 3232-3238	10	36

- 490 Spiers Memorial Lecture. Heterogeneous catalysis: understanding the fundamentals for catalyst design. **2016**, 188, 9-20
- 489 Synthesis, Characterization, and Application of Metal Nanoparticles Supported on Nitrogen-Doped Carbon: Catalysis beyond Electrochemistry. *Angewandte Chemie - International Edition*, **2016**, 55, 12582-94 ^{16.4} 385
- 488 Single Co atom catalyst stabilized in C/N containing matrix. **2016**, 37, 1443-1445 13
- 487 Chemoselective transfer hydrogenation to nitroarenes mediated by oxygen-implanted MoS₂. **2016**, 37, 1569-1577 12
- 486 Nitrogen-doped carbon supported iron oxide as efficient catalysts for chemoselective hydrogenation of nitroarenes. **2016**, 6, 96431-96435 14
- 485 Pd-Supported on N-doped carbon: improved heterogeneous catalyst for base-free alkoxy carbonylation of aryl iodides. **2016**, 52, 12729-12732 17
- 484 A highly active non-precious metal catalyst based on FeNi@CNTs for nitroarene reduction. **2016**, 6, 96203-96209 7
- 483 An efficient hydrogenation catalyst in sulfuric acid for the conversion of nitrobenzene to p-aminophenol: N-doped carbon with encapsulated molybdenum carbide. **2016**, 52, 10672-5 17
- 482 N-Doped Sub-3 nm Co Nanoparticles as Highly Efficient and Durable Aerobic Oxidative Coupling Catalysts. **2016**, 11, 2594-601 10
- 481 Encapsulated Cobalt Oxide on Carbon Nanotube Support as Catalyst for Selective Continuous Hydrogenation of the Showcase Substrate 1-Iodo-4-nitrobenzene. **2016**, 358, 2903-2911 19
- 480 Pd nanoparticles supported on Fe₃O₄@C: An effective heterogeneous catalyst for the transfer hydrogenation of nitro compounds into amines. **2016**, 41, 17960-17966 26
- 479 Synthese, Charakterisierung und Anwendungen von Metall-Nanopartikeln nach Fixierung auf N-dotiertem Kohlenstoff: Katalyse jenseits der Elektrochemie. *Angewandte Chemie*, **2016**, 128, 12770-12783 ^{3.6} 53
- 478 Highly efficient electrochemical and chemical hydrogenation of 4-nitrophenol using recyclable narrow mesoporous magnetic CoPt nanowires. **2016**, 4, 15676-15687 25
- 477 Template-induced in situ dispersion of enhanced basic-sites on sponge-like mesoporous silica and its improved catalytic property. **2016**, 6, 91968-91980 7
- 476 Cobalt Encapsulated in N-Doped Graphene Layers: An Efficient and Stable Catalyst for Hydrogenation of Quinoline Compounds. *ACS Catalysis*, **2016**, 6, 5816-5822 ^{13.1} 147
- 475 A Reusable Mesoporous Nickel Nanocomposite Catalyst for the Selective Hydrogenation of Nitroarenes in the Presence of Sensitive Functional Groups. *ChemCatChem*, **2016**, 8, 2461-2465 ^{5.2} 37
- 474 Direct Synthesis and Catalytic Application of Ordered Mesoporous Ru/C Composites with Homogeneously Dispersed Ruthenium Nanoclusters. **2016**, 81, 908-912 4
- 473 Transfer hydrogenation of nitroarenes to arylamines catalysed by an oxygen-implanted MoS₂ catalyst. **2016**, 525, 85-93 26

472	Catalytic transfer hydrogenation of nitro compounds into amines over magnetic graphene oxide supported Pd nanoparticles. 2016 , 41, 15218-15224		25
471	Efficient transfer hydrogenation of nitro compounds over a magnetic palladium catalyst. 2016 , 41, 22983-22990		3
470	Highly selective hydrogenation of arenes using nanostructured ruthenium catalysts modified with a carbon-nitrogen matrix. 2016 , 7, 11326		124
469	Ein wiederverwendbarer Cobaltkatalysator für die selektive Hydrierung von funktionalisierten Nitroarenen und die direkte Synthese von Iminen und Benzimidazolen aus Nitroarenen und Aldehyden. <i>Angewandte Chemie</i> , 2016 , 128, 15400-15404	3.6	31
468	A Reusable Co Catalyst for the Selective Hydrogenation of Functionalized Nitroarenes and the Direct Synthesis of Imines and Benzimidazoles from Nitroarenes and Aldehydes. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 15175-15179	16.4	139
467	Stable and Inert Cobalt Catalysts for Highly Selective and Practical Hydrogenation of C=N and C=O Bonds. 2016 , 138, 8781-8		99
466	Pyrite nanoparticles: an Earth-abundant mineral catalyst for activation of molecular hydrogen and hydrogenation of nitroaromatics. 2016 , 6, 55220-55224		14
465	A covalent organic framework-based route to the encapsulation of metal nanoparticles in N-rich hollow carbon spheres. 2016 , 7, 6015-6020		80
464	Heterogenized Bimetallic Pd-Pt-Fe ₃ O ₄ Nanoflakes as Extremely Robust, Magnetically Recyclable Catalysts for Chemoselective Nitroarene Reduction. 2016 , 8, 14637-47		59
463	Single-atom dispersed Co-N-C catalyst: structure identification and performance for hydrogenative coupling of nitroarenes. 2016 , 7, 5758-5764		455
462	Selective upgrading of ethanol with methanol in water for the production of improved biofuel isobutanol. <i>Green Chemistry</i> , 2016 , 18, 2811-2818	10	25
461	Transfer hydrogenation of nitroarenes with hydrazine at near-room temperature catalysed by a MoO ₂ catalyst. <i>Green Chemistry</i> , 2016 , 18, 2435-2442	10	57
460	Synthesis of Nickel Nanoparticles with N-Doped Graphene Shells for Catalytic Reduction Reactions. <i>ChemCatChem</i> , 2016 , 8, 129-134	5.2	52
459	Reactivity and mechanism investigation of selective hydrogenation of 2,3,5-trimethylbenzoquinone on in situ generated metallic cobalt. <i>Catalysis Science and Technology</i> , 2016 , 6, 4503-4510	5.5	14
458	Alloying Gold with Copper Makes for a Highly Selective Visible-Light Photocatalyst for the Reduction of Nitroaromatics to Anilines. <i>ACS Catalysis</i> , 2016 , 6, 1744-1753	13.1	127
457	Mesoporous RuO ₂ /TiO ₂ composites prepared by cyclodextrin-assisted colloidal self-assembly: towards efficient catalysts for the hydrogenation of methyl oleate. 2016 , 6, 14570-14579		15
456	Fe ₂ O ₃ /NGr@C- and Co ₃ O ₄ /NGr@C-catalysed hydrogenation of nitroarenes under mild conditions. <i>Catalysis Science and Technology</i> , 2016 , 6, 4473-4477	5.5	47
455	Synthesis of nitriles from amines using nanoscale Co ₃ O ₄ -based catalysts via sustainable aerobic oxidation. 2016 , 14, 3356-9		20

454	Immobilized Iron Metal-Containing Ionic Liquid-Catalyzed Chemoselective Transfer Hydrogenation of Nitroarenes into Anilines. 2016 , 4, 429-436		52
453	Oxidative coupling of anilines to azobenzenes using heterogeneous manganese oxide catalysts. <i>Catalysis Science and Technology</i> , 2016 , 6, 1940-1945	5.5	17
452	Identifying active sites of CoNC/CNT from pyrolysis of molecularly defined complexes for oxidative esterification and hydrogenation reactions. <i>Catalysis Science and Technology</i> , 2016 , 6, 1007-1015	5.5	65
451	In situ synthesis of cotton-derived Ni/C catalysts with controllable structures and enhanced catalytic performance. <i>Green Chemistry</i> , 2016 , 18, 3594-3599	10	29
450	Using the hydrogen and oxygen in water directly for hydrogenation reactions and glucose oxidation by photocatalysis. 2016 , 7, 463-468		30
449	Selective Hydrogenation of Halogenated Nitroaromatics to Haloanilines in Batch and Flow. 2016 , 20, 452-464		39
448	Carbon-coated Cu-Co bimetallic nanoparticles as selective and recyclable catalysts for production of biofuel 2,5-dimethylfuran. <i>Applied Catalysis B: Environmental</i> , 2017 , 200, 192-199	21.8	154
447	Oxygen surface groups of activated carbon steer the chemoselective hydrogenation of substituted nitroarenes over nickel nanoparticles. 2017 , 53, 1969-1972		45
446	CuNi Nanoparticles Assembled on Graphene for Catalytic Methanolysis of Ammonia Borane and Hydrogenation of Nitro/Nitrile Compounds. 2017 , 29, 1413-1418		115
445	MOF-derived Ni-based nanocomposites as robust catalysts for chemoselective hydrogenation of functionalized nitro compounds. 2017 , 7, 1531-1539		44
444	Fabrication of ordered mesoporous solid super base with high thermal stability from mesoporous carbons. 2017 , 242, 18-24		29
443	Selective Semihydrogenation of Alkynes with N-Graphitic-Modified Cobalt Nanoparticles Supported on Silica. <i>ACS Catalysis</i> , 2017 , 7, 1526-1532	13.1	84
442	Effective Hydrodeoxygenation of Stearic Acid and Cyperus Esculentus Oil into Liquid Alkanes over Nitrogen-Modified Carbon Nanotube-Supported Ruthenium Catalysts. <i>ChemistrySelect</i> , 2017 , 2, 33-41	1.8	16
441	Chemoselective three-phase hydrogenation of an Ombrabulin nitro-stilbene intermediate in a continuous-flow mobile platform. <i>Chemical Engineering Journal</i> , 2017 , 316, 1069-1077	14.7	4
440	Well-organized Co-Ni@NC material derived from hetero-dinuclear MOFs as efficient electrocatalysts for oxygen reduction. 2017 , 95, 31-35		35
439	Selective hydrogenation of nitroarenes to aminoarenes using a MoO ₃ -modified Ru/SiO ₂ catalyst under mild conditions. 2017 , 53, 3377-3380		43
438	Metal-Organic Framework Mediated Cobalt/Nitrogen-Doped Carbon Hybrids as Efficient and Chemoselective Catalysts for the Hydrogenation of Nitroarenes. <i>ChemCatChem</i> , 2017 , 9, 1854-1862	5.2	63
437	High performance of a cobalt-nitrogen complex for the reduction and reductive coupling of nitro compounds into amines and their derivatives. 2017 , 3, e1601945		146

436	Nanolayered CoMoS Catalysts for the Chemoselective Hydrogenation of Nitroarenes. <i>ACS Catalysis</i> , 2017 , 7, 2698-2708	13.1	77
435	A versatile cobalt catalyst for the reductive amination of carbonyl compounds with nitro compounds by transfer hydrogenation. <i>Applied Catalysis B: Environmental</i> , 2017 , 210, 522-532	21.8	87
434	Polymer Encapsulated Cobalt-Based Catalysts (Co EnCat™) for Selective Continuous Hydrogenation of 1-Iodo-4-nitrobenzene. <i>ChemCatChem</i> , 2017 , 9, 3210-3217	5.2	11
433	Palladium/Phosphorus-Doped Porous Organic Polymer as Recyclable Chemoselective and Efficient Hydrogenation Catalyst under Ambient Conditions. 2017 , 359, 2280-2287		48
432	A Pd@Zeolite Catalyst for Nitroarene Hydrogenation with High Product Selectivity by Sterically Controlled Adsorption in the Zeolite Micropores. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 9747-9751	16.4	184
431	A Pd@Zeolite Catalyst for Nitroarene Hydrogenation with High Product Selectivity by Sterically Controlled Adsorption in the Zeolite Micropores. <i>Angewandte Chemie</i> , 2017 , 129, 9879-9883	3.6	64
430	Water as a hydrogen source in palladium-catalyzed reduction and reductive amination of nitroarenes mediated by diboronic acid. 2017 , 73, 3898-3904		36
429	Remarkable effect of alkalis on the chemoselective hydrogenation of functionalized nitroarenes over high-loading Pt/FeO catalysts. 2017 , 8, 5126-5131		65
428	Single-Site Cobalt Catalysts at New Zr(EO)(EOH)(EOH) Metal-Organic Framework Nodes for Highly Active Hydrogenation of Nitroarenes, Nitriles, and Isocyanides. 2017 , 139, 7004-7011		166
427	Active and efficient Co-N/C catalysts derived from cobalt porphyrin for selective oxidation of alkylaromatics. 2017 , 419, 98-106		38
426	Co-based heterogeneous catalysts from well-defined diimine complexes: Discussing the role of nitrogen. 2017 , 351, 79-89		52
425	Selective oxidation of arylalkanes with N-Graphitic-Modified cobalt nanoparticles in water. 2017 , 97, 130-133		8
424	A new strategy to transform mono and bimetallic non-noble metal nanoparticles into highly active and chemoselective hydrogenation catalysts. 2017 , 350, 218-225		70
423	Highly chemoselective reduction of nitroarenes over non-noble metal nickel-molybdenum oxide catalysts. <i>Green Chemistry</i> , 2017 , 19, 809-815	10	29
422	Graphene-supported CoS ₂ particles: an efficient photocatalyst for selective hydrogenation of nitroaromatics in visible light. <i>Catalysis Science and Technology</i> , 2017 , 7, 2805-2812	5.5	26
421	A Biomass-Derived Non-Noble Cobalt Catalyst for Selective Hydrodehalogenation of Alkyl and (Hetero)Aryl Halides. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 11242-11247	16.4	64
420	One-pot reductive amination of carbonyl compounds with nitro compounds with CO/H ₂ O as the hydrogen donor over non-noble cobalt catalyst. 2017 , 352, 264-273		54
419	Palladium Nanoparticles Immobilized on Cross-Linked Polymeric Ionic Liquid Material: Application as Efficient and Recoverable Catalyst for the Hydrogenation of Nitroarenes. <i>ChemistrySelect</i> , 2017 , 2, 4545-4556	1.8	13

4 ¹⁸	Palladium nanoparticles stabilized by aqueous vesicles self-assembled from a PEGylated surfactant ionic liquid for the chemoselective reduction of nitroarenes. 2017 , 99, 57-60		10
4 ¹⁷	A Biomass-Derived Non-Noble Cobalt Catalyst for Selective Hydrodehalogenation of Alkyl and (Hetero)Aryl Halides. <i>Angewandte Chemie</i> , 2017 , 129, 11394-11399	3.6	18
4 ¹⁶	Heterostructured Ni/NiO composite as a robust catalyst for the hydrogenation of levulinic acid to Valerolactone. <i>Applied Catalysis B: Environmental</i> , 2017 , 217, 115-124	21.8	122
4 ¹⁵	Predesigned Metal-Anchored Building Block for In Situ Generation of Pd Nanoparticles in Porous Covalent Organic Framework: Application in Heterogeneous Tandem Catalysis. 2017 , 9, 13785-13792		119
4 ¹⁴	Chemoselective hydrogenation of 3-nitrostyrene to 3-aminostyrene over Pt-Bi/TiO ₂ catalysts. 2017 , 432, 23-30		17
4 ¹³	One-step encapsulation of Pt-Co bimetallic nanoparticles within MOFs for advanced room temperature nanocatalysis. 2017 , 433, 77-83		26
4 ¹²	Bulk iron pyrite as a catalyst for the selective hydrogenation of nitroarenes. 2017 , 53, 4807-4810		28
4 ¹¹	Chemoselective Hydrazine-mediated Transfer Hydrogenation of Nitroarenes by Co O Nanoparticles Immobilized on an Al/Si-mixed Oxide Support. 2017 , 12, 785-791		20
4 ¹⁰	Nitrogen-Doped Carbon-Encapsulated Nickel/Cobalt Nanoparticle Catalysts for Olefin Migration in Allylarenes. <i>ChemCatChem</i> , 2017 , 9, 2930-2934	5.2	6
4 ⁰⁹	An Fe-modified CoB amorphous alloy supported on carbon nanotubes for the hydrogenation of m-chloronitrobenzene. 2017 , 120, 651-662		5
4 ⁰⁸	One-pot Reductive Amination of carbonyl Compounds with Nitro Compounds by Transfer Hydrogenation over Co-N as catalyst. 2017 , 10, 1892-1897		52
4 ⁰⁷	Iron Nanoparticles Embedded in Graphitic Carbon Matrix as Heterogeneous Catalysts for the Oxidative C-N Coupling of Aromatic N-Compounds and Amides. <i>ChemCatChem</i> , 2017 , 9, 3003-3012	5.2	8
4 ⁰⁶	Synthesis of Self-Assembled Co ₃ O ₄ Nanoparticles with Porous Sea Urchin-Like Morphology and their Catalytic and Electrochemical Applications. 2017 , 70, 908		11
4 ⁰⁵	Gold-Ligand-Catalyzed Selective Hydrogenation of Alkynes into cis-Alkenes via H ₂ Heterolytic Activation by Frustrated Lewis Pairs. <i>ACS Catalysis</i> , 2017 , 7, 2973-2980	13.1	79
4 ⁰⁴	Size Dependent Catalytic Activity of Actinodaphne madraspatana Bedd Leaves Mediated Silver Nanoparticles. 2017 , 28, 1837-1856		5
4 ⁰³	Towards the atomic-scale characterization of isolated iron sites confined in a nitrogen-doped graphene matrix. 2017 , 410, 111-116		18
4 ⁰²	In situ mosaic strategy generated Co-based N-doped mesoporous carbon for highly selective hydrogenation of nitroaromatics. 2017 , 348, 212-222		74
4 ⁰¹	Bimetallic Au-Cu alloy nanoparticles on reduced graphene oxide support: Synthesis, catalytic activity and investigation of synergistic effect by DFT analysis. 2017 , 538, 107-122		65

400	Encapsulation of Bimetallic Metal Nanoparticles into Robust Zirconium-Based Metal-Organic Frameworks: Evaluation of the Catalytic Potential for Size-Selective Hydrogenation. <i>Chemistry - A European Journal</i> , 2017 , 23, 3583-3594	4.8	28
399	Activating Cobalt Nanoparticles via the Mott-Schottky Effect in Nitrogen-Rich Carbon Shells for Base-Free Aerobic Oxidation of Alcohols to Esters. 2017 , 139, 811-818		266
398	Cobalt complexes of pyrrolicarboxamide ligands as catalysts in nitro reduction reactions: influence of electronic substituents on catalysis and mechanistic insights. 2017 , 4, 324-335		9
397	Unique P?Co?N Surface Bonding States Constructed on g-C3N4 Nanosheets for Drastically Enhanced Photocatalytic Activity of H2 Evolution. 2017 , 27, 1604328		266
396	Different active sites in a bifunctional Co@N-doped graphene shells based catalyst for the oxidative dehydrogenation and hydrogenation reactions. 2017 , 355, 53-62		79
395	Co ^{II} supported on SiO2: a facile, efficient catalyst for aerobic oxidation of amines to imines. 2017 , 7, 47366-47372		23
394	Metal/Porous Carbon Composites for Heterogeneous Catalysis: Old Catalysts with Improved Performance Promoted by N-Doping. <i>ACS Catalysis</i> , 2017 , 7, 8090-8112	13.1	265
393	Converting MOFs into amination catalysts. 2017 , 358, 304-305		56
392	Magnetically Recoverable Heterobimetallic Co2Mn3O8: Selective and Sustainable Oxidation and Reduction Reactions. 2017 , 5, 11504-11515		13
391	Highly Stable and Recyclable Graphene Layers Protected Nickel/Cobalt Bimetallic Nanoparticles as Tunable Hydrotreating Catalysts for Phenylpropane Linkages in Lignin. <i>Catalysis Letters</i> , 2017 , 147, 2877-2885	2.8	7
390	Cobalt Complexes Catalyze Reduction of Nitro Compounds: Mechanistic Studies. <i>ChemistrySelect</i> , 2017 , 2, 8197-8206	1.8	8
389	Conformal Coating of Co/N-Doped Carbon Layers into Mesoporous Silica for Highly Efficient Catalytic Dehydrogenation-Hydrogenation Tandem Reactions. 2017 , 13, 1702243		42
388	Continuous Platinum-Mediated Hydrogenation of Refametinib Iodo-nitroaniline Key Intermediate DIM-NA: The Combined Challenges of Selectivity and Catalyst Deactivation. 2017 , 2017, 3921-3928		3
387	Phosphorus-Doped and Lattice-Defective Carbon as Metal-like Catalyst for the Selective Hydrogenation of Nitroarenes. <i>ChemCatChem</i> , 2017 , 9, 4287-4294	5.2	38
386	Design of Efficient Bifunctional Oxygen Reduction/Evolution Electrocatalyst: Recent Advances and Perspectives. 2017 , 7, 1700544		407
385	Efficient and Selective N-Methylation of Nitroarenes under Mild Reaction Conditions. <i>Chemistry - A European Journal</i> , 2017 , 23, 13205-13212	4.8	26
384	Three-Component Cascade Reaction in a Tube: In Situ Synthesis of Pd Nanoparticles Supported on mpg-C3N4, Dehydrogenation of Ammonia Borane and Hydrogenation of Nitroarenes. <i>ChemistrySelect</i> , 2017 , 2, 6344-6349	1.8	19
383	Greener Synthesis of Reduced Graphene Oxide-Nickel Nanocomposite: Rapid and Sustainable Catalyst for the Reduction of Nitroaromatics. <i>ChemistrySelect</i> , 2017 , 2, 6916-6928	1.8	11

382	Synthesis of Onion-Like EMoN Catalyst for Selective Hydrogenation. 2017 , 121, 19451-19460		21
381	High Performance and Active Sites of a Ceria-Supported Palladium Catalyst for Solvent-Free Chemoselective Hydrogenation of Nitroarenes. <i>ChemCatChem</i> , 2017 , 9, 3743-3751	5.2	30
380	Discriminating Catalytically Active FeN Species of Atomically Dispersed Fe-N-C Catalyst for Selective Oxidation of the C-H Bond. 2017 , 139, 10790-10798		499
379	Iron-based nanocatalyst for the acceptorless dehydrogenation reactions. 2017 , 8, 2147		62
378	Robust Hydrogenation of Nitrile and Nitro Groups to Primary Amines Using Ni ₂ P as a Catalyst and Ammonia Borane under Ambient Conditions. 2017 , 6, 1589-1593		17
377	A Stable Nanocobalt Catalyst with Highly Dispersed Co _{Nx} Active Sites for the Selective Dehydrogenation of Formic Acid. <i>Angewandte Chemie</i> , 2017 , 129, 16843-16847	3.6	27
376	A Stable Nanocobalt Catalyst with Highly Dispersed Co _N Active Sites for the Selective Dehydrogenation of Formic Acid. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 16616-16620	16.4	87
375	Copper-Based Intermetallic Electride Catalyst for Chemoselective Hydrogenation Reactions. 2017 , 139, 17089-17097		67
374	Biomass-Derived Catalysts for Selective Hydrogenation of Nitroarenes. 2017 , 10, 3035-3039		52
373	Selective cobalt nanoparticles for catalytic transfer hydrogenation of N-heteroarenes. 2017 , 8, 6239-6246		55
372	High-efficiency oxidative esterification of furfural to methylfuroate with a non-precious metal Co-N-C/MgO catalyst. 2017 , 38, 1148-1154		15
371	Controlled synthesis of carbon-supported Co catalysts from single-sites to nanoparticles: characterization of the structural transformation and investigation of their oxidation catalysis. 2017 , 19, 4967-4974		30
370	Highly efficient (CoO _x -N@C, PANI) nanopowder derived from pyrolysis of polyaniline grafted cobalt acetate for oxidative methyl esterification of benzyl alcohols. 2017 , 427, 31-38		5
369	Pd nanoparticles supported on N-doped porous carbons derived from ZIF-67: Enhanced catalytic performance in phenol hydrogenation. <i>Journal of Industrial and Engineering Chemistry</i> , 2017 , 46, 258-265 ^{6.3}		48
368	Review on selective hydrogenation of nitroarene by catalytic, photocatalytic and electrocatalytic reactions. <i>Applied Catalysis B: Environmental</i> , 2018 , 227, 386-408	21.8	226
367	Investigation of hollow bimetal oxide nanomaterial and their catalytic activity for selective oxidation of alcohol. 2018 , 448, 63-70		8
366	Chemoselective hydrogenation of phenol to cyclohexanol using heterogenized cobalt oxide catalysts. 2018 , 29, 815-818		24
365	Nitrogen-doped graphene-activated metallic nanoparticle-incorporated ordered mesoporous carbon nanocomposites for the hydrogenation of nitroarenes.. 2018 , 8, 8898-8909		25

364	Controllable synthesis of carbon encapsulated iron phosphide nanoparticles for the chemoselective hydrogenation of aromatic nitroarenes to anilines. 2018 , 5, 1094-1099		19
363	Ultra-Stable and High-Cobalt-Loaded Cobalt@Ordered Mesoporous Carbon Catalysts: All-in-One Deoxygenation of Ketone into Alkylbenzene. <i>ChemCatChem</i> , 2018 , 10, 3299-3304	5.2	13
362	Metal Catalysts for Heterogeneous Catalysis: From Single Atoms to Nanoclusters and Nanoparticles. 2018 , 118, 4981-5079		1947
361	The Direct Synthesis of Imines, Benzimidazoles and Quinoxalines from Nitroarenes and Carbonyl Compounds by Selective Nitroarene Hydrogenation Employing a Reusable Iron Catalyst. <i>Chemistry - A European Journal</i> , 2018 , 24, 8989-8993	4.8	22
360	Universal molecular-confined synthesis of interconnected porous metal oxides-N-C frameworks for electrocatalytic water splitting. 2018 , 48, 600-606		50
359	Single-site catalyst promoters accelerate metal-catalyzed nitroarene hydrogenation. 2018 , 9, 1362		111
358	High Catalytic Performance of a CeO-Supported Ni Catalyst for Hydrogenation of Nitroarenes, Fabricated via Coordination-Assisted Strategy. 2018 , 10, 14698-14707		70
357	Nitrogen-doped mesoporous SiC materials with catalytically active cobalt nanoparticles for the efficient and selective hydrogenation of nitroarenes. 2018 , 8, 2567		17
356	Synthesis of PtCo nanoflowers and its catalytic activity towards nitrobenzene hydrogenation. 2018 , 109, 33-37		11
355	Covalent triazine framework catalytic oxidative cleavage of lignin models and organosolv lignin. <i>Green Chemistry</i> , 2018 , 20, 1270-1279	10	44
354	AgPd nanoparticles supported on reduced graphene oxide: A high catalytic activity catalyst for the transfer hydrogenation of nitroarenes. 2018 , 108, 103-107		8
353	Heterogenization of cobalt nanoparticles on hollow carbon capsules: Lab-in-capsule for catalytic transfer hydrogenation of carbonyl compounds. 2018 , 448, 153-161		8
352	The role and fate of capping ligands in colloiddally prepared metal nanoparticle catalysts. 2018 , 47, 5889-5915		150
351	Synthesis of Mesoporous γ -Alumina-Supported Co-Based Catalysts and Their Catalytic Performance for Chemoselective Reduction of Nitroarenes. 2018 , 10, 5413-5428		25
350	Nitrogen-rich graphitic-carbon stabilized cobalt nanoparticles for chemoselective hydrogenation of nitroarenes at milder conditions. 2018 , 5, 806-813		24
349	Kinetic and catalytic analysis of mesoporous metal oxides on the oxidation of Rhodamine B. 2018 , 440, 1130-1142		5
348	MOF-Derived Cobalt Phosphide/Carbon Nanocubes for Selective Hydrogenation of Nitroarenes to Anilines. <i>Chemistry - A European Journal</i> , 2018 , 24, 4234-4238	4.8	53
347	Photocatalytic hydrogenation of nitroarenes using Cu _{1.94} S-Zn _{0.23} Cd _{0.77} S heteronanorods. <i>Nano Research</i> , 2018 , 11, 3730-3738	10	17

346	The synergic effects at the molecular level in CoS ₂ for selective hydrogenation of nitroarenes. <i>Green Chemistry</i> , 2018 , 20, 671-679	10	39
345	N-doped graphitic carbon-improved CoMoO ₃ catalysts on ordered mesoporous SBA-15 for chemoselective reduction of nitroarenes. 2018 , 559, 127-137		19
344	Accessing Frustrated Lewis Pair Chemistry through Robust Gold@N-Doped Carbon for Selective Hydrogenation of Alkynes. <i>ACS Catalysis</i> , 2018 , 8, 3516-3524	13.1	66
343	Co-Ag alloy protected by nitrogen doped carbon as highly efficient and chemoselective catalysts for the hydrogenation of halogenated nitrobenzenes. 2018 , 522, 217-227		21
342	Ordered mesoporous N-doped carbon supported Ru for selective adsorption and hydrogenation of quinoline. 2018 , 256, 10-17		29
341	3D Porous Carbon Framework Stabilized Ultra-Uniform Nano Fe ₃ O ₄ : A Useful Catalyst System. 2018 , 13, 89-98		19
340	Co-N-doped carbon nanotubes supported on diatomite for highly efficient catalysis oxidative carbonylation of amines with CO and air. 2018 , 549, 112-116		12
339	Chemo-selective reduction of nitro and nitrile compounds using Ni nanoparticles immobilized on hyperbranched polymer-functionalized magnetic nanoparticles. 2018 , 32, e3975		20
338	Egg-like magnetically immobilized nanospheres: A long-lived catalyst model for the hydrogen transfer reaction in a continuous-flow reactor. <i>Nano Research</i> , 2018 , 11, 287-299	10	38
337	Supported Single Atom and Pseudo-Single Atom of Metals as Sustainable Heterogeneous Nanocatalysts. <i>ChemCatChem</i> , 2018 , 10, 881-906	5.2	27
336	Selective hydrogenation of phenol to cyclohexanone over Pd@CN (N-doped porous carbon): Role of catalyst reduction method. 2018 , 435, 649-655		30
335	Synthesis of cobalt nanoparticles by pyrolysis of vitamin B12: a non-noble-metal catalyst for efficient hydrogenation of nitriles. <i>Catalysis Science and Technology</i> , 2018 , 8, 499-507	5.5	25
334	Synergistic effects in Fe nanoparticles doped with ppm levels of (Pd + Ni). A new catalyst for sustainable nitro group reductions. <i>Green Chemistry</i> , 2018 , 20, 130-135	10	47
333	Single cobalt sites in mesoporous N-doped carbon matrix for selective catalytic hydrogenation of nitroarenes. 2018 , 357, 20-28		156
332	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
331	Studying the Three-Phase Hydrogenation of Nitrobenzene to Aniline in the Presence of a Ruthenium Catalyst. 2018 , 10, 328-334		2
330	Application of Silver Nanoparticles in the Multicomponent Reaction Domain: A Combined Catalytic Reduction Methodology to Efficiently Access Potential Hypertension or Inflammation Inhibitors. <i>ACS Omega</i> , 2018 , 3, 16005-16013	3.9	9
329	Room-Temperature Chemoselective Reduction of 3-Nitrostyrene to 3-Vinylaniline by Ammonia Borane over Cu Nanoparticles. 2018 , 140, 16460-16463		51

328	Nitrogen-Doped Carbon Materials for the Metal-Free Reduction of Nitro Compounds. 2018 , 10, 44421-44429	38
327	Hydrogenation of terminal and internal olefins using a biowaste-derived heterogeneous cobalt catalyst. 2018 , 4, eaau1248	27
326	Site-Specific Oxidative C-H Chalcogenation of (Hetero)Aryl-Fused Cyclic Amines Enabled by Nanocobalt Oxides. 2018 , 20, 6554-6558	14
325	Encapsulation of C-N-decorated metal sub-nanoclusters/single atoms into a metal-organic framework for highly efficient catalysis. 2018 , 9, 8962-8968	22
324	Superaerophilic Materials Are Surprising Catalysts: Wettability-Induced Excellent Hydrogenation Activity under Ambient H ₂ Pressure. 2018 , 5, 1801259	11
323	Synthesis of Rare-Earth-Based Metallic Electride Nanoparticles and Their Catalytic Applications to Selective Hydrogenation and Ammonia Synthesis. <i>ACS Catalysis</i> , 2018 , 8, 11054-11058	13.1 28
322	ORR Activity and Stability of Co-N/C Catalysts Based on Silicon Carbide Derived Carbon and the Impact of Loading in Acidic Media. 2018 , 165, F1217-F1223	9
321	Selective deoxygenation of carbonyl groups at room temperature and atmospheric hydrogen pressure over nitrogen-doped carbon supported Pd catalyst. 2018 , 368, 207-216	27
320	A robust iron catalyst for the selective hydrogenation of substituted (iso)quinolones. 2018 , 9, 8134-8141	39
319	Amorphous Flowerlike Goethite FeOOH Hierarchical Supraparticles: Superior Capability for Catalytic Hydrogenation of Nitroaromatics in Water. 2018 , 10, 32180-32191	24
318	Solvent-free aerobic selective oxidation of hydrocarbons catalyzed by porous graphitic carbon encapsulated cobalt composites. 2018 , 42, 16829-16835	10
317	Cobalt-based nanoparticles prepared from MOF-carbon templates as efficient hydrogenation catalysts. 2018 , 9, 8553-8560	51
316	Structure and Activity Transition from Oxidized to Metallic Tungsten for Catalytic Hydrogenation: A Density Functional Theory Study. 2018 , 122, 23053-23061	4
315	Palladium-Catalyzed O-Arylation Reaction Using Different Heterogeneous Catalyst Systems: The Role of Support. <i>ChemistrySelect</i> , 2018 , 3, 9857-9864	1.8 2
314	Molybdenum Carbide Catalysts for Chemoselective Transfer Hydrogenation of Nitroarenes. <i>ChemistrySelect</i> , 2018 , 3, 5165-5168	1.8 6
313	Visible-Light-Driven Chemoselective Hydrogenation of Nitroarenes to Anilines in Water through Graphitic Carbon Nitride Metal-Free Photocatalysis. 2018 , 13, 1950	15
312	A new molecular pathway allows the chemoselective reduction of nitroaromatics on non-noble metal catalysts. 2018 , 364, 19-30	49
311	Development of a Palladium-Catalyzed Process for the Synthesis of Z-Alkenes by Sequential Sonogashira Hydrogenation Reaction. 2018 , 2018, 5253-5259	1

310	Surfactant Assembly within Pickering Emulsion Droplets for Fabrication of Interior-Structured Mesoporous Carbon Microspheres. <i>Angewandte Chemie</i> , 2018 , 130, 11065-11070	3.6	13
309	Surfactant Assembly within Pickering Emulsion Droplets for Fabrication of Interior-Structured Mesoporous Carbon Microspheres. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 10899-10904	16.4	46
308	Metallo-supramolecular polymer engineered porous carbon framework encapsulated stable ultra-small nanoparticles: a general approach to construct highly dispersed catalysts. 2018 , 6, 16680-16689		20
307	Highly Stable COF-Supported Co/Co(OH) Nanoparticles Heterogeneous Catalyst for Reduction of Nitrile/Nitro Compounds under Mild Conditions. 2018 , 14, e1801233		50
306	Transition metal-assisted carbonization of small organic molecules toward functional carbon materials. 2018 , 4, eaat0788		106
305	N-doped mesoporous carbon embedded Co nanoparticles for highly efficient and stable H ₂ generation from hydrolysis of ammonia borane. 2018 , 399, 89-97		20
304	Single-atom catalyst: a rising star for green synthesis of fine chemicals. 2018 , 5, 653-672		134
303	Metal-Organic-Framework-Derived Co S Hollow Nanoboxes for the Selective Reduction of Nitroarenes. 2018 , 11, 3131-3138		28
302	Superior performance of Co-N/m-C for direct oxidation of alcohols to esters under air. 2018 , 39, 1249-1257		4
301	Cobalt nanocomposites on N-doped hierarchical porous carbon for highly selective formation of anilines and imines from nitroarenes. <i>Green Chemistry</i> , 2018 , 20, 4629-4637	10	80
300	Magnetically Recyclable Catalytic Carbon Nanoreactors. 2018 , 28, 1802869		13
299	Enhanced catalytic performance of cobalt nanoparticles coated with a N,P-codoped carbon shell derived from biomass for transfer hydrogenation of functionalized nitroarenes. <i>Green Chemistry</i> , 2018 , 20, 2821-2828	10	78
298	Cobalt nanoparticles encapsulated in nitrogen-doped carbon for room-temperature selective hydrogenation of nitroarenes. 2018 , 39, 664-672		23
297	Development of N-Doped Carbon-Supported Cobalt/Copper Bimetallic Nanoparticle Catalysts for Aerobic Oxidative Esterifications Based on Polymer Incarceration Methods. 2018 , 20, 5172-5176		21
296	A route to support Pt sub-nanoparticles on TiO ₂ and catalytic hydrogenation of quinoline to 1,2,3,4-tetrahydroquinoline at room temperature. <i>Catalysis Science and Technology</i> , 2018 , 8, 4314-4317	5.5	13
295	Solid-state nanocasting synthesis of ordered mesoporous CoN-carbon catalysts for highly efficient hydrogenation of nitro compounds. 2018 , 10, 16839-16847		22
294	Intermetallic nickel silicide nanocatalyst-A non-noble metal-based general hydrogenation catalyst. 2018 , 4, eaat0761		72
293	Significance of surface oxygen-containing groups and heteroatom P species in switching the selectivity of Pt/C catalyst in hydrogenation of 3-nitrostyrene. 2018 , 364, 297-307		13

292	Synergistic Effect of Segregated Pd and Au Nanoparticles on Semiconducting SiC for Efficient Photocatalytic Hydrogenation of Nitroarenes. 2018 , 10, 23029-23036		52
291	Shape Engineering of Biomass-Derived Nanoparticles from Hollow Spheres to Bowls through Solvent-Induced Buckling. 2018 , 11, 2540-2546		23
290	A novel approach towards chemoselective reduction of nitro to amine. 2019 , 60, 151028		7
289	Competitive adsorption on single-atom catalysts: Mechanistic insights into the aerobic oxidation of alcohols over CoNC. 2019 , 377, 283-292		22
288	Hydrogenation of Functionalized Nitroarenes Catalyzed by Single-Phase Pyrite FeS Nanoparticles on N,S-Codoped Porous Carbon. 2019 , 12, 4636-4644		29
287	A switchable-selectivity multiple-interface Ni-WC hybrid catalyst for efficient nitroarene reduction. 2019 , 377, 174-182		14
286	Studying the Three-Phase Hydrogenation of Nitrobenzene to Aniline in the Presence of a Ruthenium Catalyst. 2019 , 11, 147-153		1
285	On the catalytic transfer hydrogenation of nitroarenes by a cubane-type MoS cluster hydride: disentangling the nature of the reaction mechanism. 2019 , 21, 17221-17231		4
284	A strategy of two-step tandem catalysis towards direct N-alkylation of nitroarenes with ethanol via facile fabricated novel Co-based catalysts derived from coordination polymers. 2019 , 376, 106-118		13
283	Cobalt nanoparticles anchoring on nitrogen doped carbon with excellent performances for transfer hydrogenation of nitrocompounds to primary amines and N-substituted formamides with formic acid. 2019 , 129, 105747		17
282	In situ synthesis of Fe-N-C catalysts from cellulose for hydrogenation of nitrobenzene to aniline. 2019 , 40, 1557-1565		6
281	Highly Efficient and Chemoselective Reduction of Nitroarenes Using Hybrid Ni@g-C ₃ N ₄ as Reusable Catalyst. <i>ChemistrySelect</i> , 2019 , 4, 9556-9561	1.8	10
280	Nitrogen doped carbon supported iron catalysts for highly selective production of 4,4'-diamino-2,2'-stilbenedisulfonic acid. 2019 , 132, 105822		2
279	Enhanced Hydrogenation Performance over Hollow Structured Co-CoO@N-C Capsules. 2019 , 6, 1900807		58
278	Magnetically recyclable Sm ₂ Co ₁₇ /Cu catalyst to chemoselectively reduce the 3-nitrostyrene into 3-vinylaniline under room temperature. <i>Nano Research</i> , 2019 , 12, 3085-3088	10	12
277	Zinc single atoms on N-doped carbon: An efficient and stable catalyst for CO ₂ fixation and conversion. 2019 , 40, 1679-1685		15
276	Solvent-Free Melting-Assisted Pyrolysis Strategy Applied on the Co/N Codoped Porous Carbon Catalyst. 2019 , 7, 19474-19482		9
275	Influence of graphene surface chemistry on Ir-catalyzed hydrogenation of p-chloronitrobenzene and cinnamaldehyde: Weak molecule-support interactions. 2019 , 377, 524-533		6

274	Cobalt Nanoparticles Apically Encapsulated by Nitrogen-doped Carbon Nanotubes for Oxidative Dehydrogenation and Transfer Hydrogenation of N-Heterocycles. <i>ChemCatChem</i> , 2019 , 11, 5475-5486	5-2	15
273	Biomolecule-derived supported cobalt nanoparticles for hydrogenation of industrial olefins, natural oils and more in water. <i>Green Chemistry</i> , 2019 , 21, 5104-5112	10	6
272	Heterogenization of Trinuclear Palladium Complex into an Anionic Metal-Organic Framework through Postsynthetic Cation Exchange. 2019 , 38, 3460-3465		14
271	Isolated Iron Single-Atomic Site-Catalyzed Chemoselective Transfer Hydrogenation of Nitroarenes to Arylamines. 2019 , 11, 33819-33824		42
270	Interfacing Anatase with Carbon Layers for Photocatalytic Nitroarene Hydrogenation. 2019 , 7, 16190-16199		5
269	Marine Algae-Derived Porous Carbons as Robust Electrocatalysts for ORR. <i>Catalysts</i> , 2019 , 9, 730	4	2
268	Selective Hydrogenation by Carbocatalyst: The Role of Radicals. 2019 , 21, 8164-8168		12
267	Heterogeneous iron containing carbon catalyst (Fe-N/C) for epoxidation with molecular oxygen. 2019 , 370, 357-363		12
266	Single-Atom Fe-N _x -C as an Efficient Electrocatalyst for Zinc-Air Batteries. 2019 , 29, 1808872		221
265	Graphitic N-dominated nitrogen-doped carbon nanotubes as efficient metal-free catalysts for hydrogenation of nitroarenes. 2019 , 146, 60-69		31
264	In Situ Preparation of Ru@N-Doped Carbon Catalyst for the Hydrogenolysis of Lignin To Produce Aromatic Monomers. <i>ACS Catalysis</i> , 2019 , 9, 5828-5836	13-1	54
263	MOF-derived Ni@NC catalyst: synthesis, characterization, and application in one-pot hydrogenation and reductive amination. <i>Catalysis Science and Technology</i> , 2019 , 9, 3726-3734	5-5	20
262	Recent advances in heterogeneous catalytic hydrogenation and dehydrogenation of N-heterocycles. 2019 , 40, 980-1002		43
261	Porous Organic Polymer-Driven Evolution of High-Performance Cobalt Phosphide Hybrid Nanosheets as Vanillin Hydrodeoxygenation Catalyst. 2019 , 11, 24140-24153		35
260	Rational design of hydrogenation catalysts using nitrogen-doped porous carbon. 2019 , 40, 971-979		34
259	Copper-catalyzed demethylative esterification of arylmethylketones: a new route for the synthesis of benzocaine. 2019 , 16, 2327-2332		4
258	Synergetic Bimetallic Oxidative Esterification of 5-Hydroxymethylfurfural under Mild Conditions. 2019 ,		3
257	Single Pt atom decorated graphitic carbon nitride as an efficient photocatalyst for the hydrogenation of nitrobenzene into aniline. <i>Nano Research</i> , 2019 , 12, 1817-1823	10	61

256	Cobalt in N-doped carbon matrix catalyst for chemoselective hydrogenation of nitroarenes. 2019 , 580, 158-166		18
255	Organic acid-assisted preparation of highly dispersed Co/ZrO ₂ catalysts with superior activity for CO ₂ methanation. <i>Applied Catalysis B: Environmental</i> , 2019 , 254, 531-540	21.8	66
254	Ammonia borane dehydrogenation and selective hydrogenation of functionalized nitroarene over a porous nickel-cobalt bimetallic catalyst.. 2019 , 9, 14580-14585		8
253	Effect of Bases on Catalytic Properties of Cobalt-Nitrogen-Carbon Composites in Oxidative Esterification of Benzyl Alcohol with Methanol. 2019 , 92, 295-299		4
252	N-Doped Hierarchical Porous Carbon Embedded Synergistic Bimetallic CoCu NPs with Unparalleled Catalytic Performance. <i>ChemCatChem</i> , 2019 , 11, 2415-2422	5.2	9
251	Cobalt single atoms anchored on N-doped ultrathin carbon nanosheets for selective transfer hydrogenation of nitroarenes. 2019 , 62, 1306-1314		34
250	Co based N, S co-doped carbon hybrids for catalytic hydrogenation: Role of cobalt salt and doped S. 2019 , 579, 99-105		22
249	Creating Coordination Mismatch in MOFs: Tuning from Pore Structure of the Derived Supported Catalysts to Their Catalytic Performance. 2019 , 58, 5543-5551		16
248	Magnetic ethyl-based organosilica supported Schiff-base/indium: A very efficient and highly durable nanocatalyst. 2019 , 790, 783-791		18
247	Selective reduction of nitro group using CuNi bimetallic nanoparticles. 2019 , 1, 1		3
246	Nitrogen and sulfur co-doped cobalt carbon catalysts for ethylbenzene oxidation with synergistically enhanced performance.. 2019 , 9, 9462-9467		4
245	Ultrahigh-Content Nitrogen-doped Carbon Encapsulating Cobalt NPs as Catalyst for Oxidative Esterification of Furfural. 2019 , 14, 1515-1522		8
244	A Cobalt Catalyst Permits the Direct Hydrogenative Synthesis of 1H-Perimidines from a Dinitroarene and an Aldehyde. 2019 , 12, 3013-3017		13
243	General and Chemoselective Copper Oxide Catalysts for Hydrogenation Reactions. <i>ACS Catalysis</i> , 2019 , 9, 4302-4307	13.1	32
242	Heterogeneous nickel-catalysed reversible, acceptorless dehydrogenation of N-heterocycles for hydrogen storage. 2019 , 55, 4969-4972		30
241	Selective catalytic hydrogenation of phenol to cyclohexanone over Pd@CN: Role of CN precursor separation mode. 2019 , 97, 1506-1514		7
240	Supported Cobalt Nanoparticles for Hydroformylation Reactions. <i>Chemistry - A European Journal</i> , 2019 , 25, 5534-5538	4.8	23
239	Bio-based Aromatic Amines from Lignin-Derived Monomers. 2019 , 7, 6906-6916		30

238	Utilization of a Hydrogen Source from Renewable Lignocellulosic Biomass for Hydrogenation of Nitroarenes. <i>ChemCatChem</i> , 2019 , 11, 4189-4195	5.2	5
237	General and selective deoxygenation by hydrogen using a reusable earth-abundant metal catalyst. 2019 , 5, eaav3680		14
236	Ru nanoclusters confined in porous organic cages for catalytic hydrolysis of ammonia borane and tandem hydrogenation reaction. 2019 , 11, 21513-21521		32
235	Defect-mediated selective hydrogenation of nitroarenes on nanostructured WS. 2019 , 10, 10310-10317		14
234	Synergistic catalysis on Fe-N sites and Fe nanoparticles for efficient synthesis of quinolines and quinazolinones oxidative coupling of amines and aldehydes. 2019 , 10, 10283-10289		50
233	Chemoselective Hydrogenation of α,β -Unsaturated Carbonyls Catalyzed by Biomass-Derived Cobalt Nanoparticles in Water. <i>ChemCatChem</i> , 2019 , 11, 1313-1319	5.2	22
232	Three-Shell Cu@Co@Ni Nanoparticles Stabilized with a Metal-Organic Framework for Enhanced Tandem Catalysis. 2019 , 11, 940-947		40
231	General synthesis of primary amines via reductive amination employing a reusable nickel catalyst. 2019 , 2, 71-77		94
230	Catalysis with Two-Dimensional Materials Confining Single Atoms: Concept, Design, and Applications. 2019 , 119, 1806-1854		442
229	Lignin Valorization by Cobalt-Catalyzed Fractionation of Lignocellulose to Yield Monophenolic Compounds. 2019 , 12, 404-408		44
228	Chlorella-derived porous heteroatom-doped carbons as robust catalysts for oxygen reduction reaction in direct glucose alkaline fuel cell. 2019 , 44, 2823-2831		13
227	Cobalt Entrapped in N,S-Codoped Porous Carbon: Catalysts for Transfer Hydrogenation with Formic Acid. 2019 , 12, 487-494		39
226	Synthesis of cobalt/nitrogen-doped mesoporous carbon from chitosan and its performance for pollutant degradation as Fenton-like catalysts. 2019 , 45, 907-918		16
225	Modulating the catalytic behavior of non-noble metal nanoparticles by inter-particle interaction for chemoselective hydrogenation of nitroarenes into corresponding azoxy or azo compounds. 2019 , 369, 312-323		26
224	Reduction of Nitro Compounds Using 3d-Non-Noble Metal Catalysts. 2019 , 119, 2611-2680		280
223	Metal Nanoparticles Supported on Biomass-Derived Hierarchical Porous Heteroatom-Doped Carbon from Bamboo Shoots: Design, Synthesis and Applications. 2019 , 19, 1283-1301		7
222	Facile synthesis of monodispersed Pd nanocatalysts decorated on graphene oxide for reduction of nitroaromatics in aqueous solution. 2019 , 45, 599-611		57
221	Selective Hydrogenation over Supported Metal Catalysts: From Nanoparticles to Single Atoms. 2020 , 120, 683-733		419

220	Selective hydrogenation of furfural to furfuryl alcohol without external hydrogen over N-doped carbon confined Co catalysts. 2020 , 197, 106205		31
219	Fe(0)-embedded thermally reduced graphene oxide as efficient nanocatalyst for reduction of nitro compounds to amines. <i>Chemical Engineering Journal</i> , 2020 , 382, 122469	14.7	28
218	Constructing Co@N-doped graphene shell catalyst via Mott-Schottky effect for selective hydrogenation of 5-hydroxymethylfurfural. <i>Applied Catalysis B: Environmental</i> , 2020 , 263, 118339	21.8	34
217	Transfer Hydrogenation of Nitroarenes Catalyzed by CoCu Anchored on Nitrogen-doped Porous Carbon. 2020 , 34, e5438		2
216	Composites of palladium nanoparticles and graphene oxide as a highly active and reusable catalyst for the hydrogenation of nitroarenes. 2020 , 296, 110014		25
215	Designing Atomic Active Centers for Hydrogen Evolution Electrocatalysts. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 20794-20812	16.4	136
214	Charge separation and molecule activation promoted by Pd/MIL-125-NH ₂ hybrid structures for selective oxidation reactions. <i>Catalysis Science and Technology</i> , 2020 , 10, 138-146	5.5	31
213	Intermetallic Ni ₂ Si/SiCN as a highly efficient catalyst for the one-pot tandem synthesis of imines and secondary amines. 2020 , 7, 82-90		8
212	An unconventional DCO _x favored Co/N-C catalyst for efficient conversion of fatty acids and esters to liquid alkanes. 2020 , 591, 117385		6
211	Hollow and Yolk-Shell Co-N-C@SiO ₂ Nanoreactors: Controllable Synthesis with High Selectivity and Activity for Nitroarene Hydrogenation. 2020 , 12, 3624-3630		27
210	Pd Nanoparticles Assembled on Metalporphyrin-Based Microporous Organic Polymer as Efficient Catalyst for Tandem Dehydrogenation of Ammonia Borane and Hydrogenation of Nitro Compounds. <i>Catalysis Letters</i> , 2020 , 150, 1277-1286	2.8	10
209	Novel cake-like FeNi hybrid for H ₂ activation. 2020 , 45, 1649-1657		3
208	Single-Atom Catalysts across the Periodic Table. 2020 , 120, 11703-11809		237
207	Confinement of Cobalt Species in Mesoporous N-Doped Carbons and the Impact on Nitroarene Hydrogenation. 2020 , 8, 11171-11182		5
206	Novel CoNi-metal-organic framework crystal-derived CoNi@C: synthesis and effective cascade catalysis. 2020 , 49, 10567-10573		3
205	Reduction of Nitroarenes via Catalytic Transfer Hydrogenation Using Formic Acid as Hydrogen Source: A Comprehensive Review. <i>ChemistrySelect</i> , 2020 , 5, 13054-13075	1.8	11
204	Nanocomposite Based on Organic Framework-Loading Transition-Metal Co Ion and Cationic Pillar[6]arene and Its Application for Electrochemical Sensing of L-Ascorbic Acid. <i>Langmuir</i> , 2020 , 36, 14676-14685		8
203	Single-Atom Catalysts for Thermal Heterogeneous Catalysis in Liquid: Recent Progress and Future Perspective. 2020 , 2, 1653-1661		7

202	Cascade Synthesis of Pyrroles from Nitroarenes with Benign Reductants Using a Heterogeneous Cobalt Catalyst. <i>Angewandte Chemie</i> , 2020 , 132, 18838-18844	3.6	3
201	Cascade Synthesis of Pyrroles from Nitroarenes with Benign Reductants Using a Heterogeneous Cobalt Catalyst. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 18679-18685	16.4	10
200	Highly Dispersed Ni/Silica by Carbonization/Calcination of a Chelated Precursor for Coke-Free Dry Reforming of Methane. 2020 , 3, 7719-7735		22
199	Synthesis of Functional Chemicals from Lignin-derived Monomers by Selective Organic Transformations. 2020 , 362, 5143-5169		17
198	Graphitic phosphorus coordinated single Fe atoms for hydrogenative transformations. 2020 , 11, 4074		51
197	Facile Synthesis of Iron-Titanate Nanocomposite as a Sustainable Material for Selective Amination of Substituted Nitro-Arenes. <i>Catalysts</i> , 2020 , 10, 871	4	0
196	Metal Nanoparticles for Redox Reactions. 2020 , 49-75		
195	Composites Based on Nanodispersed Nickel, Graphene-Like Carbon, and Aerosil for Catalytic Hydrogenation of Furfural and Quinoline. 2020 , 56, 261-267		4
194	Carbon-Supported Cobalt Nanoparticles as Catalysts for the Selective Hydrogenation of Nitroarenes to Arylamines and Pharmaceuticals. 2020 , 3, 11070-11079		19
193	A NiRhS fuel cell catalyst - lessons from hydrogenase. 2020 , 56, 11787-11790		
192	New microsphere cobalt complex: preparation and catalytic consideration for the synthesis of some heterocyclic compounds. <i>ChemistrySelect</i> , 2020 , 5, 15130-15136	1.8	0
191	Catalytically Active Co ^{II} Species Stabilized on Nitrogen-doped Porous Carbon for Efficient Hydrogenation and Dehydrogenation of N-heteroarenes. <i>ChemCatChem</i> , 2020 , 12, 4406-4415	5.2	1
190	Actinyl-Modified g-CN as CO Activation Materials for Chemical Conversion and Environmental Remedy via an Artificial Photosynthetic Route. 2020 , 59, 8369-8379		3
189	Palladium Nanoparticles Incorporated Thiazoline Functionalized Periodic Mesoporous Organosilica: Efficient Catalyst for Selective Hydrogenation & Csp ² -Csp ² Bond Formation Reactions. <i>ChemistrySelect</i> , 2020 , 5, 6131-6140	1.8	2
188	Effect of Nanoporous Structure on the Catalytic Activity of Nanoporous Palladium for Hydrogenation of Nitro Compounds. <i>ChemistrySelect</i> , 2020 , 5, 7086-7092	1.8	1
187	Biomass-derived Fe-NC hybrid for hydrogenation with formic acid: control of Fe-based nanoparticle distribution.. 2020 , 10, 10689-10694		6
186	Integration of Metal Single Atoms on Hierarchical Porous Nitrogen-Doped Carbon for Highly Efficient Hydrogenation of Large-Sized Molecules in the Pharmaceutical Industry. 2020 , 12, 17651-17658		17
185	In situ synthesis of highly dispersed Co ^{II} catalysts with carbon-coated sandwich structures based on defect anchoring. 2020 , 44, 5404-5409		9

184	Chemoselective Hydrogenation of Functionalized Nitroarenes into Anilines by Supported Molybdenum Catalysts. <i>ChemistrySelect</i> , 2020 , 5, 7249-7253	1.8	2
183	Highly Efficient Hydrogenation of Nitroarenes by N-Doped Carbon-Supported Cobalt Single-Atom Catalyst in Ethanol/Water Mixed Solvent. 2020 , 12, 34021-34031		23
182	Bio-waste chitosan-derived N-doped CNT-supported Ni nanoparticles for selective hydrogenation of nitroarenes. 2020 , 49, 10431-10440		20
181	Zn(0)-Catalysed mild and selective hydrogenation of nitroarenes. <i>Green Chemistry</i> , 2020 , 22, 4640-4644	10	3
180	N-Graphitic Modified Cobalt Nanoparticles Supported on Graphene for Tandem Dehydrogenation of Ammonia Borane and Semihydrogenation of Alkynes. 2020 , 8, 11058-11068		7
179	Effective and selective direct aminoformylation of nitroarenes utilizing palladium nanoparticles assisted by fibrous-structured silica nanospheres. 2020 , 46, 4279-4295		1
178	In-situ Construction of Graphite-Supported Magnetic Carbocatalysts from a Metallo-Supramolecular Polymer: High Performance for Catalytic Transfer Hydrogenation. 2020 , 6, 629-638		1
177	Commercially Available CuO Catalyzed Hydrogenation of Nitroarenes Using Ammonia Borane as a Hydrogen Source. <i>ChemCatChem</i> , 2020 , 12, 2426-2430	5.2	13
176	Selective reductive annulation reaction for direct synthesis of functionalized quinolines by a cobalt nanocatalyst. 2020 , 383, 239-243		11
175	High performance of nitrogen-doped carbon-supported cobalt catalyst for the mild and selective synthesis of primary amines. 2020 , 13, 4916-4925		7
174	Hierarchical nitrogen-doped porous carbon incorporating cobalt nanocrystal sites for nitrophenol reduction. 2020 , 217, 115525		12
173	Selective Acceptorless Dehydrogenation of Primary Amines to Imines by Core-Shell Cobalt Nanoparticles. <i>Angewandte Chemie</i> , 2020 , 132, 7571-7577	3.6	5
172	Selective Acceptorless Dehydrogenation of Primary Amines to Imines by Core-Shell Cobalt Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 7501-7507	16.4	19
171	Tandem selective reduction of nitroarenes catalyzed by palladium nanoclusters. <i>Green Chemistry</i> , 2020 , 22, 1301-1307	10	17
170	Pd nanoparticles stabilized with phosphine-functionalized porous ionic polymer for efficient catalytic hydrogenation of nitroarenes in water. 2020 , 44, 3681-3689		11
169	Towards a practical perfluoroalkylation of (hetero)arenes with perfluoroalkyl bromides using cobalt nanocatalysts. <i>Catalysis Science and Technology</i> , 2020 , 10, 1731-1738	5.5	5
168	Differences in the selective reduction mechanism of 4-nitroacetophenone catalysed by rutile- and anatase-supported ruthenium catalysts. <i>Catalysis Science and Technology</i> , 2020 , 10, 1518-1528	5.5	3
167	Design aktiver atomarer Zentren für HER-Elektrokatalysatoren. <i>Angewandte Chemie</i> , 2020 , 132, 20978-20988	9	9

166	Chemoenzymatic Synthesis of 5-Hydroxymethylfurfural (HMF)-Derived Plasticizers by Coupling HMF Reduction with Enzymatic Esterification. 2020 , 13, 1864-1875		13
165	In situ-formed cobalt embedded into N-doped carbon as highly efficient and selective catalysts for the hydrogenation of halogenated nitrobenzenes under mild conditions. 2020 , 592, 117434		17
164	Metal-Organic Framework-Based Catalysts with Single Metal Sites. 2020 , 120, 12089-12174		291
163	Co,N-Codoped Porous Carbon-Supported CoyZnS with Superior Activity for Nitroarene Hydrogenation. 2020 , 8, 6118-6126		21
162	The Synthesis of Primary Amines through Reductive Amination Employing an Iron Catalyst. 2020 , 13, 3110-3114		25
161	Metallo-aerogels derived from chitosan with encapsulated metal nanoparticles as robust, efficient and selective nanocatalysts towards reduction of nitroarenes. <i>Nano Research</i> , 2021 , 14, 59-65	10	7
160	Understanding the Catalytic Sites of Metal-Nitrogen-Carbon Oxygen Reduction Electrocatalysts. <i>Chemistry - A European Journal</i> , 2021 , 27, 145-157	4.8	12
159	Magnetite (Fe ₃ O ₄) nanoparticles-supported dodecylbenzenesulfonic acid as a highly efficient and green heterogeneous catalyst for the synthesis of substituted quinolines and 1-amidoalkyl-2-naphthol derivatives. 2021 , 18, 805-816		5
158	Confining isolated atoms and clusters in crystalline porous materials for catalysis. 2021 , 6, 244-263		75
157	MIL-53 (Al) derived single-atom Rh catalyst for the selective hydrogenation of m-chloronitrobenzene into m-chloroaniline. 2021 , 42, 824-834		3
156	Production of aromatic amines via catalytic co-pyrolysis of lignin and phenol-formaldehyde resins with ammonia over commercial HZSM-5 zeolites. 2021 , 320, 124252		9
155	Single-atom Fe with Fe ₁ N ₃ structure showing superior performances for both hydrogenation and transfer hydrogenation of nitrobenzene. 2021 , 64, 642-650		59
154	Hydrogenation of substituted nitroaromatics on non-noble metal catalysts: mechanistic insights to improve selectivity. 2021 , 229, 297-317		4
153	Cobalt-Based Metal Organic Frameworks as Solids Catalysts for Oxidation Reactions. <i>Catalysts</i> , 2021 , 11, 95	4	4
152	Cobalt nanoclusters coated with N-doped carbon for chemoselective nitroarene hydrogenation and tandem reactions in water. <i>Green Chemistry</i> , 2021 , 23, 4490-4501	10	12
151	Palladium nanoparticles in situ synthesized on <i>Cyclea barbata</i> pectin as a heterogeneous catalyst for Heck coupling in water, the reduction of nitrophenols and alkynes. 2021 , 45, 4746-4755		4
150	Transition-Metal- and Nitrogen-Doped Carbide-Derived Carbon/Carbon Nanotube Composites as Cathode Catalysts for Anion-Exchange Membrane Fuel Cells.. <i>ACS Catalysis</i> , 2021 , 11, 1920-1931	13.1	33
149	Nitrogen-Doped Mixed-Phase Cobalt Nanocatalyst Derived From a Trinuclear Mixed-Valence Cobalt(III)/Cobalt(II) Complex for High-Performance Oxygen Evolution Reaction. 2021 , 60, 2333-2346		5

148	Heterolytic cleavage of dihydrogen (HCD) in metal nanoparticle catalysis. <i>Catalysis Science and Technology</i> , 2021 , 11, 1157-1185	5.5	4
147	A highly efficient LaOCl supported FeFe ₃ C-based catalyst for hydrogenation of nitroarenes fabricated by coordination-assisted pyrolysis. <i>Catalysis Science and Technology</i> , 2021 , 11, 4627-4635	5.5	3
146	Bimetallic CuFe nanoparticles as active and stable catalysts for chemoselective hydrogenation of biomass-derived platform molecules. <i>Catalysis Science and Technology</i> , 2021 , 11, 3353-3363	5.5	2
145	Reductive electrophilic C-H alkylation of quinolines by a reusable iridium nanocatalyst. 2021 , 12, 13802-13808		5
144	Oxidative esterification of renewable furfural on cobalt dispersed on ordered porous nitrogen-doped carbon.. 2021 , 11, 3280-3287		2
143	Ceria-promoted Co@NC catalyst for biofuel upgrade: synergy between ceria and cobalt species. 2021 , 9, 8541-8553		7
142	Synthesis of Nickel-Containing Sapropel Based Catalysts and Their Study in the Liquid-Phase Hydrogenation of Nitrobenzene. 2021 , 94, 223-229		0
141	Origin of the Activity of Co ^{II} Catalysts for Chemoselective Hydrogenation of Nitroarenes. <i>ACS Catalysis</i> , 2021 , 11, 3026-3039	13.1	32
140	Carbon-Supported Nitrogen-Doped Graphene-Wrapped Copper Nanoparticles: An Effective Catalyst for the Oxidative Carbonylation of Methanol. 2021 , 60, 2944-2953		0
139	Unraveling a Biomass-Derived Multiphase Catalyst for the Dehydrogenative Coupling of Silanes with Alcohols under Aerobic Conditions. 2021 , 9, 2912-2928		6
138	Metal-based Heterogeneous Catalysts for One-Pot Synthesis of Secondary Anilines from Nitroarenes and Aldehydes. <i>Molecules</i> , 2021 , 26,	4.8	3
137	Recent Advancements of Porphyrin-Like Single-Atom Catalysts: Synthesis and Applications. 2021 , 2, 2100007		34
136	Sustainable Carbon Materials toward Emerging Applications.. 2021 , 5, e2001250		12
135	Protein-Zn(II) networks derived N-doped porous carbon-supported ZnS for photothermally catalytic CO ₂ conversion. 2021 , 45, 101431		4
134	Development and Application of Efficient Ag-based Hydrogenation Catalysts Prepared from Rice Husk Waste. <i>ChemCatChem</i> , 2021 , 13, 2583-2591	5.2	1
133	Electron-Enriched Pd Nanoparticles for Selective Hydrogenation of Halonitrobenzenes to Haloanilines. <i>Catalysts</i> , 2021 , 11, 543	4	2
132	Self-Template Construction of High-Performance Co, N-Decorated Carbon Nanotubes from a Novel Cobalt Dicyandiamide Molecule. <i>ChemCatChem</i> , 2021 , 13, 2609-2617	5.2	0
131	Synthesis of flow-compatible Ru-Me/Al ₂ O ₃ catalysts and their application in hydrogenation of 1-iodo-4-nitrobenzene. 1		0

130	ZIF-67 derived Co _{Sx} /NC catalysts for selective reduction of nitro compounds. 2021 , 28, 1279-1290		0
129	Chemoselective Hydrogenation of Olefins Using a Nanostructured Nickel Catalyst.		1
128	Applications of single-atom catalysts. <i>Nano Research</i> , 1	10	24
127	Tuning the coordination environment of single-atom catalyst M-N-C towards selective hydrogenation of functionalized nitroarenes. <i>Nano Research</i> , 1	10	15
126	Rhodium nanoparticles supported on 2-(aminomethyl)phenols-modified Fe ₃ O ₄ spheres as a magnetically recoverable catalyst for reduction of nitroarenes and the degradation of dyes in water. <i>Catalysis Letters</i> , 1	2.8	0
125	Tuning the Catalytic Performance of Cobalt Nanoparticles by Tungsten Doping for Efficient and Selective Hydrogenation of Quinolines under Mild Conditions. <i>ACS Catalysis</i> , 2021 , 11, 8197-8210	13.1	13
124	A suitable modified Palladium Immobilized on Imidazolium supported Ionic liquid Catalysed Transfer Hydrogenation of Nitroarenes. 2021 , 121935		2
123	Single-atomic-site iron on N-doped carbon for chemoselective reduction of nitroarenes. <i>Nano Research</i> , 2022 , 15, 603	10	11
122	Catalytic production of anilines by nitro-compounds hydrogenation over highly recyclable platinum nanoparticles supported on halloysite nanotubes. <i>Catalysis Today</i> , 2021 ,	5.3	3
121	Ni Nanoparticles Grown on SiO ₂ Supports Using a Carbon Interlayer Sacrificial Strategy for Chemoselective Hydrogenation of Nitrobenzene and m-Cresol. 2021 , 4, 9353-9360		2
120	Combined Spectroscopic and Computational Study of Nitrobenzene Activation on Non-Noble Metals-Based Mono- and Bimetallic Catalysts. 2021 , 11,		1
119	Efficient hydrogenation catalyst designing via preferential adsorption sites construction towards active copper. 2021 , 400, 397-406		1
118	Co/N-codoped porous carbons derived from poly(Schiff base)/Co(II) complex as ultrahighly efficient catalysts for CTH of nitroarenes. 2021 , 623, 118249		1
117	Melamine-supported nickel oxide nanoparticles as a good alternative to conventional copper catalysts for the regioselective synthesis of triazole derivatives in water. 1		0
116	Cascade Reaction of β -Unsaturated Ketones and 2-Aminoaryl Alcohols for the Synthesis of 3-Acylquinolines by a Copper Nanocatalyst. 2021 , 363, 4422-4429		1
115	Carbon Deposition on Heterogeneous Pt Catalysts Promotes the Selective Hydrogenation of Halogenated Nitroaromatics. 2021 ,		3
114	Amines By Reduction. 1-34		
113	Solid catalysts for environmentally benign synthesis. 2022 , 23-80		

112	Hydrogenation of 4-nitrochlorobenzene catalysed by cobalt nanoparticles supported on nitrogen-doped activated carbon. <i>Catalysis Science and Technology</i> , 2021 , 11, 3845-3854	5.5	1
111	Bimetallic AuPd nanoparticles supported on silica with a tunable core@shell structure: enhanced catalytic activity of Pd(core)Au(shell) over Au(core)Pd(shell). 2021 , 3, 5399-5416		0
110	Recent Advances in Catalytic Transfer Hydrogenation with Formic Acid over Heterogeneous Transition Metal Catalysts. <i>ACS Catalysis</i> , 2021 , 11, 1071-1095	13.1	33
109	Progress in batch preparation of single-atom catalysts and application in sustainable synthesis of fine chemicals. <i>Green Chemistry</i> ,	10	7
108	Facile Fabrication of the Cu-N-C Catalyst with Atomically Dispersed Unsaturated Cu-N ₂ Active Sites for Highly Efficient and Selective Glaser-Hay Coupling. 2020 , 12, 27210-27218		22
107	Architectural and catalytic aspects of designer materials built using metalloligands of pyridine-2,6-dicarboxamide based ligands. 2020 , 49, 14731-14748		7
106	Studies of Three-Phase Hydrogenation of Nitrobenzene to Aniline in the Presence of a Ruthenium Catalyst. 2018 , 18, 41-47		1
105	A Pt ₃ cluster anchored on a C ₂ N monolayer as an efficient catalyst for electrochemical reduction of nitrobenzene to aniline: a computational study.		1
104	Nitrogen doped carbon for Pd-catalyzed hydropurification of crude terephthalic acid: roles of nitrogen species.. 2021 , 11, 33646-33652		1
103	Highly Selective Hydrogenation of Phenols to Cyclohexanone Derivatives Using a Carbon/SiO ₂ Catalyst.		1
102	Recent advances in selective catalytic hydrogenation of nitriles to primary amines. 2021 , 404, 475-475		4
101	Base-free catalytic aerobic oxidation of mercaptans over MOF-derived Co/CN catalyst with controllable composition and structure. 2022 , 607, 1836-1848		0
100	Preparation of highly dispersed supported Ni-Based catalysts and their catalytic performance in low temperature for CO methanation. 2020 , 3, 164-172		1
99	Catalysis with MNPs on N-Doped Carbon. 2020 , 199-219		
98	Highly efficient hydrogenation reduction of aromatic nitro compounds using MOF derivative CoNi/C catalyst.		0
97	Recent Developments and Aspects of Industrial Fluoroalkylation. 2021 , 75, 923-935		0
96	A novel and efficient N-doping carbon supported cobalt catalyst derived from the fermentation broth solid waste for the hydrogenation of ketones via MeerweinPonndorfVerley reaction. 2021 , 630, 118436		0
95	Nitrogen-Doped Carbon Supported Co/Ni Bimetallic Catalyst for Selectively Reductive N-Formylation of Nitroso in Guanine Synthesis. <i>Catalysis Letters</i> , 1	2.8	0

94	Chemo-, site-selective reduction of nitroarenes under blue-light, catalyst-free conditions. 2021 ,		3
93	Catalytic Hydrogenation of Substituted Quinolines on Co/graphene Composites. 2021 , 2021, 6616		6
92	Facile synthesis of hexagonal β -Co(OH) nanosheets and their superior activity in the selective reduction of nitro compounds. 2021 ,		0
91	Metal-Free, Rapid, and Highly Chemoselective Reduction of Aromatic Nitro Compounds at Room Temperature.. 2022 ,		5
90	A Pod-like Core-Shell Catalyst with High Reduction Performance Under Mild Conditions. e202100996		0
89	hcp-phased Ni nanoparticles with generic catalytic hydrogenation activities toward different functional groups. 2022 , 65, 1252		1
88	Metal-free C ₂ N doped with sp ² hybridized B atom as high efficiency photocatalyst for nitrobenzene reduction reaction: A density functional theory study. 2022 , 518, 112080		0
87	Facile Synthesis of a Novel Heterogeneous Rh/COF Catalyst and Its Application in Tandem Selective Transfer Hydrogenation and Monomethylation of Nitro Compounds with Methanol. 2022 , 61, 1066-1077		2
86	Preparation of Heteroatom-Doped Carbon Materials and Applications in Selective Hydrogenation. <i>ChemistrySelect</i> , 2022 , 7,	1.8	0
85	Transition metal and nitrogen-doped mesoporous carbons as cathode catalysts for anion-exchange membrane fuel cells. <i>Applied Catalysis B: Environmental</i> , 2022 , 306, 121113	21.8	6
84	ZIF-Derived Metal/N-Doped Porous Carbon Nanocomposites: Efficient Catalysts for Organic Transformations. <i>Catalysis Science and Technology</i> ,	5.5	5
83	Unprecedentedly high activity and selectivity for hydrogenation of nitroarenes with single atomic Co-NP sites.. 2022 , 13, 723		11
82	Atomically Dispersed Cu Catalyst for Efficient Chemoselective Hydrogenation Reaction. 2021 ,		34
81	Highly active heterogeneous hydrogenation catalysts prepared from cobalt complexes and rice husk waste. <i>Catalysis Science and Technology</i> ,	5.5	1
80	A Trojan horse strategy towards robust Co ₁₄ active sites accommodated in micropore defect-rich carbon nanosheets for boosting selective hydrogenation of nitroarenes.		0
79	MOF-derived NiFe ₂ O ₄ nanoparticles on molybdenum disulfide: Magnetically reusable nanocatalyst for the reduction of nitroaromatics in aqueous media. <i>Journal of Industrial and Engineering Chemistry</i> , 2022 , 107, 428-435	6.3	2
78	Fast and selective reduction of nitroarenes under visible light with an earth-abundant plasmonic photocatalyst.. <i>Nature Nanotechnology</i> , 2022 ,	28.7	9
77	Latest Advances in Waste Plastic Pyrolytic Catalysis. <i>Processes</i> , 2022 , 10, 683	2.9	1

76	A suitable modified high-rate cobalt immobilized on acid supported ionic liquid catalysed transfer hydrogenation of nitroarenes. <i>Sustainable Chemistry and Pharmacy</i> , 2022 , 27, 100668	3.9	
75	Generation of Cobalt-Containing Nanoparticles on Carbon via Pyrolysis of a Cobalt Corrole and Its Application in the Hydrogenation of Nitroarenes. <i>Catalysts</i> , 2022 , 12, 11	4	0
74	Hierarchical Graphitic Carbon-Encapsulating Cobalt Nanoparticles for Catalytic Hydrogenation of 2,4-Dinitrophenol. <i>Catalysts</i> , 2022 , 12, 39	4	1
73	Highly efficient and anti-poisoning single-atom cobalt catalyst for selective hydrogenation of nitroarenes. <i>Nano Research</i> ,	10	0
72	Selective transfer hydrogenation coupling of nitroaromatics to azoxy/azo compounds by electron-enriched single Ni-N4 sites on mesoporous N-doped carbon. <i>Chemical Engineering Journal</i> , 2022 , 443, 136416	14.7	4
71	Recent Advances in the Catalytic N-Methylation and N-Trideuteromethylation Reactions Using Methanol and Deuterated Methanol. <i>SSRN Electronic Journal</i> ,	1	1
70	ZIF-8@ZIF-67 Derived Co/NPHC Catalysts for Efficient and Selective Hydrogenation of Nitroarenes. <i>Catalysis Letters</i> ,	2.8	0
69	Atomically Dispersed Co ^{II} Active Sites Anchored on Hierarchically Porous Carbon for Efficient Catalytic Hydrogenation of Nitro Compounds. <i>ACS Catalysis</i> , 5786-5794	13.1	4
68	Precisely tailoring selectivity via target group-steered adsorption on Cu ₂ O/tantalate catalysts for hydrogenation of 3-nitrostyrene. <i>ChemCatChem</i> ,	5.2	
67	Switching of support materials for the hydrogenation of nitroarenes: A review. <i>Catalysis Reviews - Science and Engineering</i> , 1-84	12.6	0
66	Nickel Carbide (Ni ₃ C) Nanoparticles for Catalytic Hydrogenation of Model Compounds in Solvent. <i>Catalysis Science and Technology</i> ,	5.5	1
65	A Highly Active Nitrogen-Doped Mixed-Phase Mixed-Valence Cobalt Nanocatalyst for Olefins and Nitroarenes Hydrogenation. <i>ChemistrySelect</i> , 2022 , 7,	1.8	1
64	Selective Hydrogenation of Aromatic Nitro Compounds Using Unsupported Nickel Catalysts. <i>ChemistrySelect</i> , 2022 , 7,	1.8	0
63	Photo Enhanced Catalytic Activity for Hydrogenation of Nitrobenzene Over Pt-Au/TiO ₂ Heterojunction. <i>SSRN Electronic Journal</i> ,	1	
62	Synthesis of 3,4-Dihydro-2H-pyrroles from Ketones, Aldehydes, and Nitro Alkanes via Hydrogenative Cyclization. <i>Chemistry - A European Journal</i> ,	4.8	0
61	Very rapid synthesis of highly efficient and biocompatible Ag ₂ Se QD photocatalysts using ultrasonic irradiation for aqueous/sustainable reduction of toxic nitroarenes to anilines with excellent yield/selectivity at room temperature. <i>Ultrasonics Sonochemistry</i> , 2022 , 106037	8.9	1
60	Lignin Residue-Derived Carbon-Supported Nanoscale Iron Catalyst for the Selective Hydrogenation of Nitroarenes and Aromatic Aldehydes. <i>ACS Omega</i> ,	3.9	1
59	A Career in Catalysis: Avelino Corma. <i>ACS Catalysis</i> , 7054-7123	13.1	1

58	N-Doped holey graphene assembled on fibrous aluminum silicate for efficient carbocatalysis in fixed-bed systems. <i>Green Chemistry</i> ,	10	1
57	Runi Nanoparticles Embedded in N-Doped Carbon Nanofibers as a Bimetallic Catalyst for the Hydrogenolysis of Peanut Shell Lignin. <i>SSRN Electronic Journal</i> ,	1	
56	Synthesis of Sub-4 nm Rh-Based Intermetallic Catalyst Libraries by Sulfur-Anchoring Strategy. 1350-1357		3
55	Water acting as a catalytic promoter for electron-proton transfer in the Pt single atom catalyzed environmental reduction reactions. <i>Applied Catalysis B: Environmental</i> , 2022 , 316, 121641	21.8	1
54	An Adaptive Rhodium Catalyst to Control the Hydrogenation Network of Nitroarenes. <i>Angewandte Chemie</i> ,	3.6	
53	High-density atomically dispersed Co _{Nx} catalysts supported on nitrogen-doped mesoporous carbon materials for efficient hydrogenation of nitro compounds. <i>Catalysis Today</i> , 2022 ,	5.3	
52	Immobilized iron functionalised imidazolium-based ionic liquid: Solvent-free and recoverable heterogeneous catalytic application for the synthesis of amines under green conditions. <i>Green Synthesis and Catalysis</i> , 2022 ,	9.3	
51	An Adaptive Rhodium Catalyst to Control the Hydrogenation Network of Nitroarenes. <i>Angewandte Chemie - International Edition</i> ,	16.4	0
50	Sustainable Coordination Polymer-Based Catalyst and Its Application in the Nitroaromatic Hydrogenation under Mild Conditions. <i>Langmuir</i> , 2022 , 38, 8686-8695	4	2
49	Supported Gold Nanoparticle-Catalyzed Selective Reduction of Multifunctional, Aromatic Nitro Precursors into Amines and Synthesis of 3,4-Dihydroquinoxalin-2-Ones. <i>Molecules</i> , 2022 , 27, 4395	4.8	0
48	Boosting the epoxidation of long-chain linear Olefins via bimetallic CoIr composite. <i>Fuel</i> , 2022 , 326, 125050	7.1	0
47	Solvent-free synthesis of Co@NC catalyst with Co ^{II} species as active sites for chemoselective hydrogenation of nitro compounds.		
46	Designing a Green Replacement for the Lindlar Catalyst for Alkyne Semi-hydrogenation Using Silica-Supported Nickel Nanoparticles Modified by N-Doped Carbon. 2022 , 10, 9787-9797		1
45	Synthesis of Ag nanoparticles by Celery leaves extract supported on magnetic biochar substrate, as a catalyst for the reduction reactions. 2022 , 12,		1
44	Mild and Efficient Heterogeneous Hydrogenation of Nitroarenes Facilitated by a Pyrolytically Activated Dinuclear Ni(II)-Ce(III) Diimine Complex. 2022 , 23, 8742		
43	Selective hydrogenation of phenylacetylene over non-precious bimetallic Ni ₂ Zn/SiO ₂ and Ni ₂ Co/SiO ₂ catalysts prepared by glucose pyrolysis.		
42	Single Atom Catalysts in Liquid Phase Selective Hydrogenations.		
41	Direct Construction of Julolidines via Reductive Annulation of Quinolines and Conjugated Enones by a MOF-Derived Hierarchically Porous Iridium Catalyst. 2022 , 12, 10294-10303		0

- 40 Covalent organic frameworks and their composites as multifunctional photocatalysts for efficient visible-light induced organic transformations. **2022**, 472, 214774 3
- 39 Atomically distributed asymmetrical five-coordinated Co_NS moieties on N-rich doped C enabling enhanced redox kinetics for advanced LIB batteries. 0
- 38 The development of a lead-free replacement for the Lindlar catalyst for alkyne semi-hydrogenation using silica supported, N-doped carbon modified cobalt nanoparticles. **2022**, 24, 6912-6922 0
- 37 Metal Sites in Zeolites: Synthesis, Characterization, and Catalysis. 9
- 36 Photo enhanced catalytic activity for hydrogenation of nitrobenzene over Pt-Au/TiO₂ heterojunction. **2022**, 645, 118840 0
- 35 Recent Insight in Transition Metal Anchored on Nitrogen-Doped Carbon Catalysts: Preparation and Catalysis Application. **2022**, 3, 520-537 0
- 34 Environment Molecules Boost the Chemoselective Hydrogenation of Nitroarenes on Cobalt Single-Atom Catalysts. **2022**, 12, 11960-11973 0
- 33 Lignin Linkages Cleavage Beginning with C_α-C_β, C_α-C_γ, or C_α-C_δ Bond Non-ionized Activation. **2022**, 277-361 0
- 32 Heterogeneous M-N-C Catalysts for Aerobic Oxidation Reactions: Lessons from Oxygen Reduction Electrocatalysts. 2
- 31 Ultrasmall Palladium Nanoparticles Anchored on N-Doped Nestlike Carbon Nanosheets for Selective Hydrogenation of Quinolines. **2022**, 10, 14011-14023 0
- 30 MnO Enabling Highly Efficient and Stable Co-N_x/C for Oxygen Reduction Reaction in both Acidic and Alkaline Media. 2210143 4
- 29 RuNi nanoparticles embedded in N-doped carbon nanofibers as a bimetallic catalyst for the hydrogenolysis of peanut shell lignin. **2022**, 238, 107519 0
- 28 Recent advances in the catalytic N-methylation and N-trideuteromethylation reactions using methanol and deuterated methanol. **2023**, 474, 214827 2
- 27 Influence of catalase encapsulation on Cobalt@Nanoporous carbon with multiwall shell for supercapacitor and polyurethane synthesis using carbon dioxide. **2023**, 453, 139874 0
- 26 Room-temperature hydrogenation of halogenated nitrobenzenes over metal-organic-framework-derived ultra-dispersed Ni stabilized by N-doped carbon nanoneedles. 0
- 25 NiO_x-promoted Cu-based catalysts supported on ALSBA-15 for chemoselective hydrogenation of nitroarenes. **2022**, 1 1
- 24 In situ S-doped Co@NC Catalyst for Efficient and Selective Catalytic Hydrogenation of Nitroarenes. **2022**, 155722 0
- 23 Cobalt-, iron- and nitrogen-containing ordered mesoporous carbon-based catalysts for anion-exchange membrane fuel cell cathode. **2023**, 439, 141676 3

- 22 Direct Access to Functional Phenazines via Oxidative Annulation of Anilines and o-Phenylenediamines with a Reusable Cobalt Catalyst. ○
- 21 Activation of Molecular Oxygen for Alcohol Oxidation over Vanadium Carbon Catalysts Synthesized via the Heterogeneous Ligand Strategy. **2022**, 12, 15249-15258 ○
- 20 Construction of N, O co-doped carbon anchored with Co nanoparticles as efficient catalyst for furfural hydrodeoxygenation in ethanol. **2022**, ○
- 19 Using Density Functional Theory To Unravel the Size-Dependent Effect of Au Nanoparticles and Au Single Atoms Adsorbed on Carbon Nitride for the Hydrogenation of Nitrobenzene. **2022**, 5, 18753-18760 ○
- 18 Upgrading heterogeneous nickel catalysts with thiol modification. **2022**, 100362 ○
- 17 Optical signature for distinguishing between Mott-Hubbard, intermediate, and charge-transfer insulators. **2022**, 106, ○
- 16 Atenolol oxidation by Zeolite X encapsulated Cu (II)-L complex (L = a Schiff base ligand). ○
- 15 In-situ utilization of photogenerated hydrogen for hydrogenation reaction over covalent organic framework. ○
- 14 Reduction of Electron-Rich Nitro Heteroarenes; A Comprehensive Review. **2022**, 26, 1626-1637 ○
- 13 Electrochemical etching induced high-valence cobalt with defects site for boosting electrochemical water splitting. **2023**, 463, 142224 1
- 12 A metallic nickel site in a complex multimetallic design for controlled CO₂ reduction and symmetric supercapacitor device. **2023**, 28, 101374 ○
- 11 CN-Doped Cobalt Oxide Composite: An Economic and Reusable Catalyst with Multitasking Catalytic Capability for Alkyne and Nitrile Hydrations and Nitro Reductions. **2023**, 07, 121-129 ○
- 10 Reductive Oligomerization of Nitroaniline Catalyzed by Fe₃O₄ Spheres Decorated with Group 11 Metal Nanoparticles. **2023**, 8, 7459-7469 ○
- 9 Catalytic Reductive Amination of Aromatic Aldehydes on Co-Containing Composites. **2023**, 5, 281-293 1
- 8 Catalytic and Electrocatalytic Hydrogenation of Nitroarenes. **2023**, 127, 4375-4386 ○
- 7 Selective Catalytic Hydrogenation of Nitroarenes to Anilines. **2023**, 1479-1524 ○
- 6 Cobalt-Based Hydrotalcite: A Potential Non-Noble Metal-Based Heterogeneous Catalyst for Selective Hydrogenation of Aromatic Aldehydes. **2023**, 62, 4976-4986 ○
- 5 Synthesis of Mesoporous Silica-Supported NiCo Bimetallic Nanocatalysts and Their Enhanced Catalytic Hydrogenation Performance. **2023**, 8, 12339-12347 ○

- 4 Air-Stable Efficient Nickel Catalyst for Hydrogenation of Organic Compounds. **2023**, 13, 706 ○
- 3 Robust Ruthenium Phosphide Catalyst for Hydrogenation of Sulfur-Containing Nitroarenes. **2023**, 13, 5744-5751 ○
- 2 Novel binary composite of manganese ferrite/tungsten disulfide as a superior photocatalyst and ultra-reusability in reduction of nitroarenes. **2023**, 178, 106671 ○
- 1 Co-oxide nanostructured catalysts tailored from layered double hydroxides for highly efficient hydrogenation of nitroarenes. **2023**, 239, 106948 ○