

Denis A Chusov

List of Publications by Year in descending order

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304743

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times ranked

1308
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhancing the efficiency of the ruthenium catalysts in the reductive amination without an external hydrogen source. <i>Journal of Catalysis</i> , 2022, 405, 404-409.	6.2	8
2	Syngas Instead of Hydrogen Gas as a Reducing Agent – A Strategy To Improve the Selectivity and Efficiency of Organometallic Catalysts. <i>ACS Catalysis</i> , 2022, 12, 5145-5154.	11.2	8
3	Asymmetric cyclopropanation of electron-rich alkenes by the racemic diene rhodium catalyst: the chiral poisoning approach. <i>Chemical Communications</i> , 2022, 58, 6709-6712.	4.1	2
4	Borrowing Hydrogen Amination Reactions: A Complex Analysis of Trends and Correlations of the Various Reaction Parameters. <i>ACS Catalysis</i> , 2022, 12, 7142-7198.	11.2	42
5	Symmetrical Tertiary Amines: Applications and Synthetic Approaches. <i>European Journal of Organic Chemistry</i> , 2021, 2021, 543-586.	2.4	18
6	Carbon monoxide-driven osmium catalyzed reductive amination harvesting WGS power. <i>Catalysis Science and Technology</i> , 2021, 11, 4922-4930.	4.1	8
7	Phosphine ligands in the ruthenium-catalyzed reductive amination without an external hydrogen source. <i>Journal of Organometallic Chemistry</i> , 2021, 941, 121806.	1.8	4
8	Easy Access to Versatile Catalytic Systems for C-H Activation and Reductive Amination Based on Tetrahydrofuryl Rhodium(III) Complexes. <i>Chemistry - A European Journal</i> , 2021, 27, 10903-10912.	3.3	16
9	Synthesis of Rhodium Complexes with Chiral Diene Ligands via Diastereoselective Coordination and Their Application in the Asymmetric Insertion of Diazo Compounds into E-H Bonds. <i>Angewandte Chemie</i> , 2021, 133, 18860-18868.	2.0	5
10	Synthesis of Rhodium Complexes with Chiral Diene Ligands via Diastereoselective Coordination and Their Application in the Asymmetric Insertion of Diazo Compounds into E-H Bonds. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 18712-18720.	13.8	25
11	Reductive Aldol-type Reactions in the Synthesis of Pharmaceuticals. <i>Chemistry - A European Journal</i> , 2021, 27, 15327-15360.	3.3	6
12	Straightforward Access to High-Performance Organometallic Catalysts by Fluoride Activation: Proof of Principle on Asymmetric Cyanation, Asymmetric Michael Addition, CO ₂ Addition to Epoxide, and Reductive Alkylation of Amines by Tetrahydrofuran. <i>ACS Catalysis</i> , 2021, 11, 13077-13084.	11.2	13
13	Frontispiece: Reductive Aldol-type Reactions in the Synthesis of Pharmaceuticals. <i>Chemistry - A European Journal</i> , 2021, 27, .	3.3	0
14	Hayashi ligand-based rhodium complex in carbon monoxide and molecular hydrogen-assisted reductive amination. <i>Mendeleev Communications</i> , 2021, 31, 781-783.	1.6	3
15	Reductive Amidation without an External Hydrogen Source Using Rhodium on Carbon Matrix as a Catalyst. <i>ChemCatChem</i> , 2020, 12, 112-117.	3.7	9
16	Tris(pyrazolyl)borate rhodium complexes. Application for reductive amination and esterification of aldehydes in the presence of carbon monoxide. <i>Journal of Organometallic Chemistry</i> , 2020, 925, 121468.	1.8	8
17	Osmium catalysis in the reductive amination using carbon monoxide as a reducing agent. <i>Molecular Catalysis</i> , 2020, 498, 111260.	2.0	8
18	Direct Reductive Amination of Camphor Using Iron Pentacarbonyl as Stoichiometric Reducing Agent: Features and Limitations. <i>European Journal of Organic Chemistry</i> , 2020, 2020, 6289-6294.	2.4	5

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19	Rhodium-Catalyzed Reductive Esterification Using Carbon Monoxide as a Reducing Agent. <i>European Journal of Organic Chemistry</i> , 2020, 2020, 4116-4121.	2.4	2
20	Redox Condensations of <i>o</i> -Nitrobenzaldehydes with Amines under Mild Conditions: Total Synthesis of the Vasicinone Family. <i>Journal of Organic Chemistry</i> , 2020, 85, 9347-9360.	3.2	24
21	Variability of Rhodium(III)-Catalyzed Reactions of Aromatic Oximes with Alkenes. <i>Synlett</i> , 2020, 31, 1117-1120.	1.8	6
22	Alkyl formates as reagents for reductive amination of carbonyl compounds. <i>Mendeleev Communications</i> , 2020, 30, 112-113.	1.6	7
23	A Dual Threat: Redox Activity and Electronic Structures of Well-Defined Donor-Acceptor Fullerene Covalent Organic Materials. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 6000-6006.	13.8	20
24	Fluorene Complexes of Group 9 Metals: Fluorene Effect and Application for Reductive Amination. <i>Organometallics</i> , 2019, 38, 3151-3158.	2.3	14
25	Aldehydes as Alkylating Agents for Ketones. <i>Chemistry - A European Journal</i> , 2019, 25, 16225-16229.	3.3	9
26	One-Pot Synthesis of Symmetrical Tertiary and Secondary Amines from Carbonyl Compounds, Ammonium Carbonate and Carbon Monoxide as a Reductant. <i>European Journal of Organic Chemistry</i> , 2019, 2019, 6557-6560.	2.4	4
27	Reductive Amination in the Synthesis of Pharmaceuticals. <i>Chemical Reviews</i> , 2019, 119, 11857-11911.	47.7	423
28	Anthracene-rhodium complexes with metal coordination at the central ring - a new class of catalysts for reductive amination. <i>Organic and Biomolecular Chemistry</i> , 2019, 17, 83-87.	2.8	9
29	Hitchhiker's Guide to Reductive Amination. <i>Synthesis</i> , 2019, 51, 2667-2677.	2.3	64
30	Reduction of phosphine oxides to phosphines. <i>Tetrahedron Letters</i> , 2019, 60, 575-582.	1.4	28
31	Synthesis of Nitriles from Aldehydes with Elongation of the Molecule with Two Carbon Atoms. <i>European Journal of Organic Chemistry</i> , 2019, 2019, 32-35.	2.4	5
32	A Planar-Chiral Rhodium(III) Catalyst with a Sterically Demanding Cyclopentadienyl Ligand and Its Application in the Enantioselective Synthesis of Dihydroisoquinolones. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 7714-7718.	13.8	174
33	A Planar-Chiral Rhodium(III) Catalyst with a Sterically Demanding Cyclopentadienyl Ligand and Its Application in the Enantioselective Synthesis of Dihydroisoquinolones. <i>Angewandte Chemie</i> , 2018, 130, 7840-7844.	2.0	70
34	Carbon monoxide as a selective reducing agent in organic chemistry. <i>Mendeleev Communications</i> , 2018, 28, 113-122.	1.6	33
35	Ruthenium-Catalyzed Reductive Amidation without an External Hydrogen Source. <i>European Journal of Organic Chemistry</i> , 2018, 2018, 557-563.	2.4	10
36	Indenyl rhodium complexes. Synthesis and catalytic activity in reductive amination using carbon monoxide as a reducing agent. <i>Journal of Organometallic Chemistry</i> , 2018, 867, 106-112.	1.8	24

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37	Atom- and Step-Economical Ruthenium-Catalyzed Synthesis of Esters from Aldehydes or Ketones and Carboxylic Acids. <i>Organic Letters</i> , 2018, 20, 7856-7859.	4.6	11
38	Formal reductive addition of acetonitrile to aldehydes and ketones. <i>Organic and Biomolecular Chemistry</i> , 2018, 16, 7693-7701.	2.8	3
39	Indenyl Rhodium Complexes with Arene Ligands: Synthesis and Application for Reductive Amination. <i>Organometallics</i> , 2018, 37, 2553-2562.	2.3	24
40	Rhodium-Catalyzed Reductive Amination: A Planar Chiral Rhodium(III) Catalyst with a Sterically Demanding Cyclopentadienyl Ligand and Its Application in the Enantioselective Synthesis of Dihydroisoquinolones (<i>Angew. Chem.</i>)	2.8	23
41	Synthesis of the cyclopentadienone rhodium complexes and investigation of their catalytic activity in the reductive amination of aldehydes in the presence of carbon monoxide. <i>Journal of Organometallic Chemistry</i> , 2017, 835, 6-11.	1.8	12
42	Some Aspects of Reductive Amination in the Presence of Carbon Monoxide: Cyclopropyl Ketones as Bifunctional Electrophiles. <i>Synthesis</i> , 2017, 49, 2640-2651.	2.3	10
43	Synthesis of N,N-Dialkylated Cyclohexane-1,2-diamines and Their Application as Asymmetric Ligands and Organocatalysts for the Synthesis of Alcohols. <i>Synlett</i> , 2017, 28, 615-619.	1.8	6
44	Dichotomy of Atom-Economical Hydrogen-Free Reductive Amidation vs Exhaustive Reductive Amination. <i>Organic Letters</i> , 2017, 19, 5657-5660.	4.6	16
45	Hydrogen-free reductive amination using iron pentacarbonyl as a reducing agent. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 10164-10166.	2.8	17
46	Iridium Halide Complexes [1,1-X ₂ -8-SMe ₂ -1,2,8-IrC ₂ B ₉ H ₁₀] ₂ (X = Cl, Br, I): Synthesis, Reactivity and Catalytic Activity. <i>European Journal of Inorganic Chemistry</i> , 2017, 2017, 4635-4644.	2.0	23
47	Reductive amination catalyzed by iridium complexes using carbon monoxide as a reducing agent. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 6384-6387.	2.8	19
48	Cyclobutadiene Arene Complexes of Rhodium and Iridium. <i>Organometallics</i> , 2016, 35, 3025-3031.	2.3	26
49	Dichotomy of Reductive Addition of Amines to Cyclopropyl Ketones vs Pyrrolidine Synthesis. <i>Organic Letters</i> , 2016, 18, 5968-5970.	4.6	22
50	Cyclobutadiene Metal Complexes: A New Class of Highly Selective Catalysts. An Application to Direct Reductive Amination. <i>ACS Catalysis</i> , 2016, 6, 2043-2046.	11.2	49
51	The synthesis of sterically hindered amines by a direct reductive amination of ketones. <i>Chemical Communications</i> , 2016, 52, 1397-1400.	4.1	24
52	Reductive Transformations of Carbonyl Compounds Catalyzed by Rhodium Supported on a Carbon Matrix by using Carbon Monoxide as a Deoxygenative Agent. <i>ChemCatChem</i> , 2015, 7, 2590-2593.	3.7	19
53	Ruthenium-Catalyzed Reductive Amination without an External Hydrogen Source. <i>Organic Letters</i> , 2015, 17, 173-175.	4.6	54
54	Reductive Amination without an External Hydrogen Source. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 5199-5201.	13.8	102

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55	Atom- and Step-Economical Preparation of Reduced Knoevenagel Adducts Using CO as a Deoxygenative Agent. <i>Organic Letters</i> , 2014, 16, 5068-5071.	4.6	24
56	Asymmetric ring opening of epoxides with cyanides catalysed by chiral binuclear titanium complexes. <i>Tetrahedron: Asymmetry</i> , 2014, 25, 838-843.	1.8	11
57	Aza-Diels-Alder reaction catalyzed by novel chiral metalocomplex Brønsted acids. <i>Tetrahedron: Asymmetry</i> , 2013, 24, 178-183.	1.8	29
58	Asymmetric <i>meso</i> -Epoxide Ring-Opening with Trimethylsilyl Cyanide Promoted by Chiral Binuclear Complexes of Titanium. Dichotomy of C-C versus C-N Bond Formation. <i>Advanced Synthesis and Catalysis</i> , 2009, 351, 3157-3167.	4.3	30
59	Synthesis of chiral polydentate ligands and the use of their titanium complexes as pre-catalysts for the asymmetric trimethylsilylcyanation of benzaldehyde. <i>Russian Chemical Bulletin</i> , 2008, 57, 1981-1988.	1.5	11
60	Chiral Ti(IV) complexes of hexadentate Schiff bases as precatalysts for aldehyde allylation: unusual additive effect of trimethylsilyl chloride. <i>Tetrahedron: Asymmetry</i> , 2008, 19, 459-466.	1.8	22
61	Chiral Ti(IV) complexes of hexadentate Schiff bases as precatalysts for the asymmetric addition of TMSCN to aldehydes and the ring opening of cyclohexene oxide. <i>Tetrahedron: Asymmetry</i> , 2006, 17, 2328-2333.	1.8	29