

Walter Baratta

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3663667/publications.pdf>

Version: 2024-02-01

86
papers

4,468
citations

71102

41
h-index

110387

64
g-index

90
all docs

90
docs citations

90
times ranked

2665
citing authors

#	ARTICLE	IF	CITATIONS
1	Ruthenium(II) Terdentate CNN Complexes: Superlative Catalysts for the Hydrogen-Transfer Reduction of Ketones by Reversible Insertion of a Carbonyl Group into the Ru-H Bond. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 6214-6219.	13.8	226
2	2-(Aminomethyl)pyridine-Phosphine Ruthenium(II) Complexes: Novel Highly Active Transfer Hydrogenation Catalysts. <i>Organometallics</i> , 2005, 24, 1660-1669.	2.3	188
3	Pincer and Diamine Ru and Os Diphosphane Complexes as Efficient Catalysts for the Dehydrogenation of Alcohols to Ketones. <i>Chemistry - A European Journal</i> , 2011, 17, 3474-3481.	3.3	140
4	Osmium(II) CNN Pincer Complexes as Efficient Catalysts for Both Asymmetric Transfer and H ₂ Hydrogenation of Ketones. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 4362-4365.	13.8	136
5	Recent Advances in Osmium-Catalyzed Hydrogenation and Dehydrogenation Reactions. <i>Accounts of Chemical Research</i> , 2015, 48, 363-379.	15.6	123
6	Cyclometalated Ruthenium(II) Complexes as Highly Active Transfer Hydrogenation Catalysts. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 3584-3588.	13.8	115
7	Chiral Pincer Ruthenium and Osmium Complexes for the Fast and Efficient Hydrogen Transfer Reduction of Ketones. <i>Organometallics</i> , 2010, 29, 3563-3570.	2.3	111
8	Highly Diastereoselective Formation of Ruthenium Complexes for Efficient Catalytic Asymmetric Transfer Hydrogenation. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 7651-7654.	13.8	109
9	1-(Pyridin-2-yl)methanamine-Based Ruthenium Catalysts for Fast Transfer Hydrogenation of Carbonyl Compounds in 2-Propanol. <i>European Journal of Inorganic Chemistry</i> , 2008, 2008, 4041-4053.	2.0	107
10	Cyclopentadienyl Ru(II) Complexes as Highly Efficient Catalysts for the N-Methylation of Alkylamines by Methanol. <i>European Journal of Inorganic Chemistry</i> , 2004, 2004, 524-529.	2.0	100
11	Terdentate RuX(CNN)(PP) (X = Cl, H, OR) Complexes: Synthesis, Properties, and Catalytic Activity in Fast Transfer Hydrogenation. <i>Organometallics</i> , 2006, 25, 4611-4620.	2.3	100
12	Nonclassical vs Classical Metal-H ₃ C...C Interactions: Accurate Characterization of a 14-Electron Ruthenium(II) System by Neutron Diffraction, Database Analysis, Solution Dynamics, and DFT Studies. <i>Journal of the American Chemical Society</i> , 2004, 126, 5549-5562.	13.7	97
13	New Benzo[<i>h</i>]quinoline-Based Ligands and their Pincer Ru and Os Complexes for Efficient Catalytic Transfer Hydrogenation of Carbonyl Compounds. <i>Chemistry - A European Journal</i> , 2008, 14, 9148-9160.	3.3	97
14	Novel T-Shaped 14-Electron Platinum(II) Complexes Stabilized by One Agostic Interaction. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 105-109.	13.8	96
15	Highly Productive CNN Pincer Ruthenium Catalysts for the Asymmetric Reduction of Alkyl Aryl Ketones. <i>Chemistry - A European Journal</i> , 2009, 15, 726-732.	3.3	95
16	Ruthenium and osmium complexes containing 2-(aminomethyl)pyridine (Ampy)-based ligands in catalysis. <i>Coordination Chemistry Reviews</i> , 2015, 300, 29-85.	18.8	94
17	[RuCl ₂ {PPh ₂ (2,6-Me ₂ C ₆ H ₃) ₂ }] ₂ : A Neutral 14-Electron Ruthenium(II) Complex with Two Agostic Interactions. <i>Angewandte Chemie - International Edition</i> , 1999, 38, 1629-1631.	13.8	91
18	Catalytic Transfer Hydrogenation with Terdentate CNN Ruthenium Complexes: The Influence of the Base. <i>Chemistry - A European Journal</i> , 2007, 13, 7479-7486.	3.3	91

#	ARTICLE	IF	CITATIONS
19	Fast and Chemoselective Transfer Hydrogenation of Aldehydes Catalyzed by a Terdentate CNN Ruthenium Complex [RuCl(CNN)(dppb)]. <i>Advanced Synthesis and Catalysis</i> , 2007, 349, 1633-1636.	4.3	82
20	Fast transfer hydrogenation using a highly active orthometalated heterocyclic carbene ruthenium catalyst. <i>Journal of Organometallic Chemistry</i> , 2005, 690, 5570-5575.	1.8	81
21	[RuCl ₂ (PPh ₃) ₃](PNN ⁻) Complexes as Efficient Catalysts in Transfer Hydrogenation of Ketones. <i>Organometallics</i> , 2007, 26, 5636-5642.	2.3	77
22	Current advances on ruthenium(II) N-heterocyclic carbenes in hydrogenation reactions. <i>Coordination Chemistry Reviews</i> , 2018, 374, 114-132.	18.8	77
23	Osmium Pym Complexes for Fast Hydrogenation and Asymmetric Transfer Hydrogenation of Ketones. <i>Chemistry - A European Journal</i> , 2008, 14, 2557-2563.	3.3	73
24	Half-Sandwich Ruthenium(II) Catalysts for C ^α -C Coupling Reactions between Alkenes and Diazo Compounds. <i>Organometallics</i> , 2000, 19, 3664-3669.	2.3	69
25	Role of the NH ₂ Functionality and Solvent in Terdentate CNN Alkoxide Ruthenium Complexes for the Fast Transfer Hydrogenation of Ketones in <i>2</i> -Propanol. <i>Chemistry - A European Journal</i> , 2008, 14, 5588-5595.	3.3	67
26	Functionalised cis-Alkenes from the Stereoselective Decomposition of Diazo Compounds, Catalysed by [RuCl(<i>i</i> -5-C ₅ H ₅)(PPh ₃) ₂]. <i>European Journal of Organic Chemistry</i> , 2000, 2000, 2795-2801.	2.4	65
27	Half-Sandwich Ruthenium(II) Complexes as Catalysts for Stereoselective Carbene ^α -Carbene Coupling Reactions. <i>Organometallics</i> , 1999, 18, 5091-5096.	2.3	62
28	Pincer CNN Ruthenium(II) Complexes with Oxygen-Containing Ligands (O ₂ CR, OAr, OR,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 347 Td (OCH ₃) ₂ Fast Transfer Hydrogenation. <i>Organometallics</i> , 2009, 28, 4421-4430.	2.3	60
29	Chiral and Nonchiral [OsX ₂ (diphosphane)(diamine)] (X: Cl,) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 347 Td (OCH ₃) ₂ <i>Chemistry - A European Journal</i> , 2010, 16, 3201-3206.	3.3	57
30	MCl ₂ (ampy)(dppf) (M = Ru, Os): Multitasking Catalysts for Carbonyl Compound/Alcohol Interconversion Reactions. <i>Organometallics</i> , 2012, 31, 1133-1142.	2.3	57
31	Benzo[<i>h</i>]quinoline Pincer Ruthenium and Osmium Catalysts for Hydrogenation of Ketones. <i>European Journal of Inorganic Chemistry</i> , 2010, 2010, 1419-1423.	2.0	56
32	Convenient syntheses of novel ruthenium catalysts bearing N-heterocyclic carbenes. <i>Journal of Organometallic Chemistry</i> , 2000, 593-594, 489-493.	1.8	54
33	Abnormal N-Heterocyclic Carbene-Phosphine Ruthenium(II) Complexes as Active Catalysts for Transfer Hydrogenation. <i>Organometallics</i> , 2013, 32, 4042-4045.	2.3	54
34	First amido-functionalized niobium and tantalum complexes of the ansa-structural type: synthesis and photochemical Si-N bond cleavage. <i>Journal of Organometallic Chemistry</i> , 1996, 506, 357-361.	1.8	52
35	RuCl ₂ [(2,6-Me ₂ C ₆ H ₃)PPh ₂] ₂ : A New Precursor for Cyclometalated Ruthenium(II) Complexes. <i>Organometallics</i> , 2004, 23, 6264-6272.	2.3	51
36	CNN Pincer Ruthenium Catalysts for Hydrogenation and Transfer Hydrogenation of Ketones: Experimental and Computational Studies. <i>Chemistry - A European Journal</i> , 2014, 20, 13603-13617.	3.3	47

#	ARTICLE	IF	CITATIONS
37	Pincer Ru and Os complexes as efficient catalysts for racemization and deuteration of alcohols. Dalton Transactions, 2011, 40, 8986.	3.3	44
38	Structure Dynamics in Novelansa-Metallocenes of Niobium and Tantalum. Angewandte Chemie International Edition in English, 1996, 35, 1951-1953.	4.4	43
39	New Ruthenium(II) Complexes Bearing N-Heterocyclic Carbenes. Organometallics, 2002, 21, 2101-2106.	2.3	42
40	A convenient preparation of dinuclear Pt(II) phosphine complexes. Inorganica Chimica Acta, 1993, 209, 85-87.	2.4	41
41	Hydration and alkoxylation of alkynes catalyzed by NHC-Au-OTf. Green Chemistry, 2018, 20, 2125-2134.	9.0	40
42	Multiple bonds between main-group elements and transition metals: Part 157 neutral and cationic ansa-metallocenes of niobium(V) and tantalum(V): Synthesis, structures and stereochemical non-rigidity. Journal of Organometallic Chemistry, 1997, 541, 445-460.	1.8	38
43	Organometallic Ruthenium Complexes: Application in the Olefination of Carbonyl Compounds. Organometallics, 2007, 26, 302-309.	2.3	38
44	Transfer Hydrogenation and Hydrogenation of Commercial-Grade Aldehydes to Primary Alcohols Catalyzed by 2-(Aminomethyl)pyridine and Pincer Benzoquinoline Ruthenium Complexes. ChemCatChem, 2016, 8, 2279-2288.	3.7	33
45	Highly Efficient Abnormal NHC Ruthenium Catalyst for Oppenauer-Type Oxidation and Transfer Hydrogenation Reactions. ACS Catalysis, 2019, 9, 11302-11306.	11.2	33
46	Ru-Ag and Ru-Au dicarbene complexes from an abnormal carbene ruthenium system. Dalton Transactions, 2015, 44, 11686-11689.	3.3	31
47	Efficient Chemoenzymatic Synthesis of Chiral Pincer Ligands. Journal of Organic Chemistry, 2009, 74, 3547-3550.	3.2	29
48	Tandem Suzuki-Miyaura/transfer hydrogenation reaction catalyzed by a Pd-Ru complex bearing an anionic dicarbene. Journal of Catalysis, 2016, 338, 222-226.	6.2	28
49	Synthesis and Characterization of Palladium(II) and Platinum(II) Complexes of Dibenzyl Disulfide and Dibenzyl Diselenide. X-ray Structure of cis-[PtCl2(PMe2Ph)]2(Se2Bz2). Inorganic Chemistry, 1994, 33, 4494-4501.	4.0	25
50	First amido-functionalized ansa-molybdenocene-type complexes. Journal of Organometallic Chemistry, 1995, 497, C4-C6.	1.8	25
51	[MCl(ligand)] ⁺ Complexes (M = Ni, Pd, Pt) with a P,N,N Terdentate Ligand - Solid State and Solution Structures and Catalytic Activity of the PdII Derivative in the Heck Reaction. European Journal of Inorganic Chemistry, 2005, 2005, 4707-4714.	2.0	25
52	Preparation of Pincer 4-Functionalized 2-Aminomethylbenzoquinoline Ruthenium Catalysts for Ketone Reduction. Organometallics, 2016, 35, 277-287.	2.3	25
53	Carbon-Carbon Double Bond Formation from Two-Methyl Groups in Osmium Phosphine Complexes. Organometallics, 2001, 20, 305-308.	2.3	24
54	Coordination of cyclo-Octasulfur and cyclo-Heptaselenium to Dinuclear Rhenium(I) Systems. Inorganic Chemistry, 2002, 41, 3894-3900.	4.0	24

#	ARTICLE	IF	CITATIONS
55	C ₁ ≡C-H Activation and C ₁ ≡C-C Double Bond Formation Reactions in Iridium-ortho-Methyl Arylphosphane Complexes. <i>Chemistry - A European Journal</i> , 2007, 13, 6701-6709.	3.3	23
56	Cyclometalated Dicarbonyl Ruthenium Catalysts for Transfer Hydrogenation and Hydrogenation of Carbonyl Compounds. <i>Organometallics</i> , 2018, 37, 2136-2146.	2.3	23
57	Re ₂ I ₂ (CO) ₆ (Se ₇), a Coordination Compound of Elemental Selenium with a Transition Metal: A Solution- and Solid-State Study. <i>Angewandte Chemie International Edition in English</i> , 1994, 33, 193-195.	4.4	22
58	Chemoselective Transfer Hydrogenation of Aldehydes with HCOONH ₄ Catalyzed by RuCl(CNN ^{Ph})(PP) Pincer Complexes. <i>ChemCatChem</i> , 2016, 8, 3195-3198.	3.7	22
59	C ^N -palladacyclic-catalyzed Heck reaction in EGME/water: Rate and regioselectivity controlled by the solvents ratio. <i>Inorganica Chimica Acta</i> , 2009, 362, 97-104.	2.4	20
60	Synthesis of Pincer Ruthenium RuCl(CNN)(PP) Catalysts from [RuCl(1/4-Cl)(i ⁶ -p-cymene)] ₂ . <i>Organometallics</i> , 2013, 32, 3339-3342.	2.3	19
61	Asymmetric synthesis of 1-substituted-1-(pyridin-2-yl)methylamines by diastereoselective reduction of enantiopure N-p-toluenesulfinyl ketimines. <i>Tetrahedron Letters</i> , 2005, 46, 5555-5558.	1.4	18
62	Dinuclear Di(N-heterocyclic carbene) Iridium(III) Complexes as Catalysts in Transfer Hydrogenation. <i>European Journal of Inorganic Chemistry</i> , 2016, 2016, 247-251.	2.0	18
63	Synthesis of [RuX(CO)(dppp)(NN)]Cl (X = H, Cl; NN = en, ampy) Complexes and Their Use as Catalysts for Transfer Hydrogenation. <i>Organometallics</i> , 2013, 32, 5299-5304.	2.3	17
64	Deep eutectic solvents as H ₂ -sources for Ru(II)-catalyzed transfer hydrogenation of carbonyl compounds under mild conditions. <i>Tetrahedron</i> , 2021, 83, 131997.	1.9	17
65	Generation and Rearrangements of Ylides from Tertiary Amines and α -Diazo Ketones α Very High Catalytic Activity of [RuCl(i ⁵ -C ₅ H ₅)(PPh ₃) ₂]. <i>European Journal of Organic Chemistry</i> , 2000, 2000, 3731-3735.	2.4	16
66	Mild N ^{alk} -alkylation of Amines with Alcohols Catalyzed by the Acetate Ru(OAc) ₂ (CO)(D ⁱ -PPF) Complex. <i>Chemistry - A European Journal</i> , 2017, 23, 14416-14419.	3.3	15
67	Cationic abnormal N-heterocyclic carbene ruthenium complexes as suitable precursors for the synthesis of heterobimetallic compounds. <i>Dalton Transactions</i> , 2019, 48, 79-89.	3.3	15
68	Flat and Efficient H ^{CNN} and ^{CNN} Pincer Ruthenium Catalysts for Carbonyl Compound Reduction. <i>Organometallics</i> , 2019, 38, 1127-1142.	2.3	15
69	Coordination of sulfur (S ₈) to an organotransition-metal system: Re ₂ X ₂ (CO) ₆ (S ₈) (X = bromide,) Tj ETQq1 1 0.784314 rgBT /Overload	2.3	14
70	CNN pincer ruthenium complexes for efficient transfer hydrogenation of biomass-derived carbonyl compounds. <i>Dalton Transactions</i> , 2020, 49, 453-465.	3.3	14
71	Hydrogenation of Imines Catalyzed by α (Aminomethyl)pyridine-Based Ruthenium and Osmium Complexes. <i>ChemistrySelect</i> , 2016, 1, 2492-2497.	1.5	13
72	cyclo-Octasulfur Adducts of WCl ₄ (S)(THF) and WCl ₆ . Crystal and Molecular Structure of WCl ₄ (S)(THF).cndot.S ₈ . <i>Inorganic Chemistry</i> , 1994, 33, 3842-3844.	4.0	12

#	ARTICLE	IF	CITATIONS
73	Transfer Hydrogenation Reactions Catalyzed by Free or Silica-Immobilized [RuCl ₂ (ampy){RN(CH ₂ PPh ₂) ₂ }] Complexes. European Journal of Inorganic Chemistry, 2007, 2007, 2909-2916.	2.0	12
74	Synthesis and Characterization of a Cationic Phthalimido- α -Functionalized N- α -Heterocyclic Carbene Complex of Palladium(II) and Its Catalytic Activity. European Journal of Inorganic Chemistry, 2014, 2014, 1225-1230.	2.0	11
75	Acetate Acetylacetonate Ampy Ruthenium(II) Complexes as Efficient Catalysts for Ketone Transfer Hydrogenation. ChemCatChem, 2020, 12, 3537-3544.	3.7	11
76	Preparation of monocarbonyl ruthenium complexes bearing bidentate nitrogen and phosphine ligands and their catalytic activity in carbonyl compound reduction. Dalton Transactions, 2019, 48, 12560-12576.	3.3	10
77	Ru(O ₂)CCF ₃ ₂ (PPh ₃) ₂ and ruthenium phosphine complexes bearing fluoroacetate ligands: synthesis, characterization and catalytic activity. Dalton Transactions, 2019, 48, 4625-4635.	3.3	10
78	[RuCl(η -5-C ₅ H ₅)(PPh ₃) ₂] as catalyst in the reaction of primary amines with diaryl diazoalkanes: unexpected formation of Ar ₂ C ⁻ ...NR compounds. Inorganica Chimica Acta, 2003, 349, 249-252.	2.4	9
79	OsXCl(phosphine) ₂ (diamine) and OsXCl(diphosphine)(diamine) (X = Cl, H) Complexes for Ketone Hydrogenation. Organometallics, 2018, 37, 65-77.	2.3	8
80	Bulky Diphosphine Acetate Ruthenium Complexes: Synthesis and Catalytic Activity in Ketone Transfer Hydrogenation and Alkyne Dimerization. Organometallics, 2020, 39, 3180-3193.	2.3	7
81	Cationic carboxylate and thioacetate ruthenium(η) complexes: synthesis and cytotoxic activity against anaplastic thyroid cancer cells. Dalton Transactions, 2020, 49, 8375-8388.	3.3	7
82	Enantioselective Cytotoxicity of Chiral Diphosphine Ruthenium(II) Complexes Against Cancer Cells. Chemistry - A European Journal, 2022, , .	3.3	7
83	Addition of secondary amines to activated alkenes promoted by Pd(II) complexes: Use of ammonium salts as cocatalysts. Inorganica Chimica Acta, 2005, 358, 2749-2754.	2.4	6
84	Preparation of Neutral <i>trans</i> - <i>cis</i> [Ru(O ₂)CR) ₂ P ₂ (NN)], Cationic [Ru(O ₂)CR)P ₂ (NN)](O ₂)CR and Pincer [Ru(O ₂)CR)(CNN)P ₂] (P = PPh ₃ , P ₂ = diphosphine) Carboxylate Complexes and their Application in the Catalytic Carbonyl Compounds Reduction. Organometallics, 2021, 40, 1086-1103.	2.3	4
85	Experimental and theoretical investigation of the cycloisomerization of N-propargylcarboxamide catalyzed by NHC-Au-X in green solvents. Inorganica Chimica Acta, 2021, 522, 120372.	2.4	4
86	Transfer Hydrogenation of Flavanones and ortho α -Hydroxychalcones to 1,3 α -Diarylpropanols Catalyzed by CNN Pincer Ruthenium Complexes. ChemCatChem, 2021, 13, 2152-2157.	3.7	2