

# Walter Baratta

## List of Publications by Year in descending order

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docs citations

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times ranked

2665  
citing authors

#	ARTICLE	IF	CITATIONS
1	Enantioselective Cytotoxicity of Chiral Diphosphine Ruthenium(II) Complexes Against Cancer Cells. Chemistry - A European Journal, 2022, , .	3.3	7
2	Transfer Hydrogenation of Flavanones and ortho $\alpha$ -Hydroxychalcones to 1,3-Diarylpropanols Catalyzed by CNN Pincer Ruthenium Complexes. ChemCatChem, 2021, 13, 2152-2157.	3.7	2
3	Deep eutectic solvents as H <sub>2</sub> -sources for Ru(II)-catalyzed transfer hydrogenation of carbonyl compounds under mild conditions. Tetrahedron, 2021, 83, 131997.	1.9	17
4	Preparation of Neutral <i>trans</i> - <i>cis</i> [Ru(O <sub>2</sub> CR) <sub>2</sub> P <sub>2</sub> (NN)], Cationic [Ru(O <sub>2</sub> CR) <sub>2</sub> P <sub>2</sub> (NN)](O <sub>2</sub> CR) and Pincer [Ru(O <sub>2</sub> CR)(CNN)P <sub>2</sub> ] (P = PPh <sub>3</sub> , P <sub>2</sub> = diphosphine) Carboxylate Complexes and their Application in the Catalytic Carbonyl Compounds Reduction. Organometallics, 2021, 40, 1086-1103.	2.3	4
5	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
6	CNN pincer ruthenium complexes for efficient transfer hydrogenation of biomass-derived carbonyl compounds. Dalton Transactions, 2020, 49, 453-465.	3.3	14
7	Bulky Diphosphine Acetate Ruthenium Complexes: Synthesis and Catalytic Activity in Ketone Transfer Hydrogenation and Alkyne Dimerization. Organometallics, 2020, 39, 3180-3193.	2.3	7
8	Cationic carboxylate and thioacetate ruthenium( $\eta^5$ ) complexes: synthesis and cytotoxic activity against anaplastic thyroid cancer cells. Dalton Transactions, 2020, 49, 8375-8388.	3.3	7
9	Acetate Acetylacetonate Ampy Ruthenium(II) Complexes as Efficient Catalysts for Ketone Transfer Hydrogenation. ChemCatChem, 2020, 12, 3537-3544.	3.7	11
10	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
11	Highly Efficient Abnormal NHC Ruthenium Catalyst for Oppenauer-Type Oxidation and Transfer Hydrogenation Reactions. ACS Catalysis, 2019, 9, 11302-11306.	11.2	33
12	Cationic abnormal N-heterocyclic carbene ruthenium complexes as suitable precursors for the synthesis of heterobimetallic compounds. Dalton Transactions, 2019, 48, 79-89.	3.3	15
13	Ru(O <sub>2</sub> CCF <sub>3</sub> ) <sub>2</sub> (PPh <sub>3</sub> ) <sub>2</sub> and ruthenium phosphine complexes bearing fluoroacetate ligands: synthesis, characterization and catalytic activity. Dalton Transactions, 2019, 48, 4625-4635.	3.3	10
14	Flat and Efficient <i>H</i> -CNN and <i>C</i> -CNN Pincer Ruthenium Catalysts for Carbonyl Compound Reduction. Organometallics, 2019, 38, 1127-1142.	2.3	15
15	Hydration and alkoxylation of alkynes catalyzed by NHC-Au-OTf. Green Chemistry, 2018, 20, 2125-2134.	9.0	40
16	OsXCl(phosphine) <sub>2</sub> (diamine) and OsXCl(diphosphine)(diamine) (X = Cl, H) Complexes for Ketone Hydrogenation. Organometallics, 2018, 37, 65-77.	2.3	8
17	Current advances on ruthenium(II) N-heterocyclic carbenes in hydrogenation reactions. Coordination Chemistry Reviews, 2018, 374, 114-132.	18.8	77
18	Cyclometalated Dicarboxyl Ruthenium Catalysts for Transfer Hydrogenation and Hydrogenation of Carbonyl Compounds. Organometallics, 2018, 37, 2136-2146.	2.3	23

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19	Mild N-alkylation of Amines with Alcohols Catalyzed by the Acetate Ru(OAc) <sub>2</sub> (CO)(DIPPF) Complex. <i>Chemistry - A European Journal</i> , 2017, 23, 14416-14419.	3.3	15
20	Transfer Hydrogenation and Hydrogenation of Commercial-Grade Aldehydes to Primary Alcohols Catalyzed by 2-(Aminomethyl)pyridine and Pincer Benzo[ <i>h</i> ]quinoline Ruthenium Complexes. <i>ChemCatChem</i> , 2016, 8, 2279-2288.	3.7	33
21	Hydrogenation of Imines Catalyzed by 2-(Aminomethyl)pyridine-Based Ruthenium and Osmium Complexes. <i>ChemistrySelect</i> , 2016, 1, 2492-2497.	1.5	13
22	Chemoselective Transfer Hydrogenation of Aldehydes with HCOONH <sub>4</sub> Catalyzed by RuCl(CNN)(Ph)(PP) Pincer Complexes. <i>ChemCatChem</i> , 2016, 8, 3195-3198.	3.7	22
23	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
24	Tandem Suzuki-Miyaura/transfer hydrogenation reaction catalyzed by a Pd-Ru complex bearing an anionic dicarbene. <i>Journal of Catalysis</i> , 2016, 338, 222-226.	6.2	28
25	Preparation of Pincer 4-Functionalized 2-Aminomethylbenzo[ <i>h</i> ]quinoline Ruthenium Catalysts for Ketone Reduction. <i>Organometallics</i> , 2016, 35, 277-287.	2.3	25
26	Ru-Ag and Ru-Au dicarbene complexes from an abnormal carbene ruthenium system. <i>Dalton Transactions</i> , 2015, 44, 11686-11689.	3.3	31
27	Recent Advances in Osmium-Catalyzed Hydrogenation and Dehydrogenation Reactions. <i>Accounts of Chemical Research</i> , 2015, 48, 363-379.	15.6	123
28	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
29	Synthesis and Characterization of a Cationic Phthalimido-Functionalized N-Heterocyclic Carbene Complex of Palladium(II) and Its Catalytic Activity. <i>European Journal of Inorganic Chemistry</i> , 2014, 2014, 1225-1230.	2.0	11
30	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
31	Abnormal N-Heterocyclic Carbene-Phosphine Ruthenium(II) Complexes as Active Catalysts for Transfer Hydrogenation. <i>Organometallics</i> , 2013, 32, 4042-4045.	2.3	54
32	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
33	Synthesis of Pincer Ruthenium RuCl(CNN)(PP) Catalysts from [RuCl( $\frac{1}{4}$ -Cl)( $\text{I}^{\text{sup}6}$ - <i>p</i> -cymene)] <sub>2</sub> . <i>Organometallics</i> , 2013, 32, 3339-3342.	2.3	19
34	MCl <sub>2</sub> (ampy)(dppf) (M = Ru, Os): Multitasking Catalysts for Carbonyl Compound/Alcohol Interconversion Reactions. <i>Organometallics</i> , 2012, 31, 1133-1142.	2.3	57
35	Pincer Ru and Os complexes as efficient catalysts for racemization and deuteration of alcohols. <i>Dalton Transactions</i> , 2011, 40, 8986.	3.3	44
36	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

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37	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
38	Chiral and Nonchiral [OsX <sub>2</sub> (diphosphane)(diamine)] (X: Cl,) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 707 Td (OCH<sub>2</sub>/su</i> <i>Chemistry - A European Journal</i> , 2010, 16, 3201-3206.	3.3	57
39	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
40	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
41	Câ€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
42	Pincer CNN Ruthenium(II) Complexes with Oxygen-Containing Ligands (O <sub>2</sub> CR, OAr, OR,) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf</i> Fast Transfer Hydrogenation. <i>Organometallics</i> , 2009, 28, 4421-4430.	2.3	60
43	Efficient Chemoenzymatic Synthesis of Chiral Pincer Ligands. <i>Journal of Organic Chemistry</i> , 2009, 74, 3547-3550.	3.2	29
44	Osmium Pincer Complexes for Fast Hydrogenation and Asymmetric Transfer Hydrogenation of Ketones. <i>Chemistry - A European Journal</i> , 2008, 14, 2557-2563.	3.3	73
45	Role of the NH <sub>2</sub> Functionality and Solvent in Terdentate CNN Alkoxide Ruthenium Complexes for the Fast Transfer Hydrogenation of Ketones in 2â€Propanol. <i>Chemistry - A European Journal</i> , 2008, 14, 5588-5595.	3.3	67
46	New Benzo[ <i>h</i> ]quinolineâ€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
47	1â€(Pyridinâ€yl)methanamineâ€Based Ruthenium Catalysts for Fast Transfer Hydrogenation of Carbonyl Compounds in 2â€Propanol. <i>European Journal of Inorganic Chemistry</i> , 2008, 2008, 4041-4053.	2.0	107
48	Osmium(II) CNN Pincer Complexes as Efficient Catalysts for Both Asymmetric Transfer and H <sub>2</sub> Hydrogenation of Ketones. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 4362-4365.	13.8	136
49	Organometallic Ruthenium Complexes:Â Application in the Olefination of Carbonyl Compounds. <i>Organometallics</i> , 2007, 26, 302-309.	2.3	38
50	[RuCl <sub>2</sub> (PPh <sub>3</sub> ) <sub>3</sub> ](PNNâ€)] Complexes as Efficient Catalysts in Transfer Hydrogenation of Ketones. <i>Organometallics</i> , 2007, 26, 5636-5642.	2.3	77
51	CîH Activation and Cî¾C Double Bond Formation Reactions in Iridiumortho-Methyl Arylphosphane Complexes. <i>Chemistry - A European Journal</i> , 2007, 13, 6701-6709.	3.3	23
52	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
53	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
54	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

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55	Transfer Hydrogenation Reactions Catalyzed by Free or Silica-Immobilized [RuCl <sub>2</sub> (ampy){RN(CH <sub>2</sub> PPh <sub>2</sub> ) <sub>2</sub> }] Complexes. <i>European Journal of Inorganic Chemistry</i> , 2007, 2007, 2909-2916.	2.0	12
56	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
57	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
58	Addition of secondary amines to activated alkenes promoted by Pd(II) complexes: Use of ammonium salts as cocatalysts. <i>Inorganica Chimica Acta</i> , 2005, 358, 2749-2754.	2.4	6
59	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
60	[MCl(ligand)] <sup>+</sup> Complexes (M = Ni, Pd, Pt) with a P,N,N Terdentate Ligand - Solid State and Solution Structures and Catalytic Activity of the Pd(II) Derivative in the Heck Reaction. <i>European Journal of Inorganic Chemistry</i> , 2005, 2005, 4707-4714.	2.0	25
61	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
62	2-(Aminomethyl)pyridine-Phosphine Ruthenium(II) Complexes: Novel Highly Active Transfer Hydrogenation Catalysts. <i>Organometallics</i> , 2005, 24, 1660-1669.	2.3	188
63	Cyclometalated Ruthenium(II) Complexes as Highly Active Transfer Hydrogenation Catalysts. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 3584-3588.	13.8	115
64	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
65	RuCl <sub>2</sub> [(2,6-Me <sub>2</sub> C <sub>6</sub> H <sub>3</sub> )PPh <sub>2</sub> ] <sub>2</sub> : A New Precursor for Cyclometalated Ruthenium(II) Complexes. <i>Organometallics</i> , 2004, 23, 6264-6272.	2.3	51
66	Nonclassical vs Classical Metal-H <sub>3</sub> 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
67	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
68	[RuCl( <i>i</i> -5-C <sub>5</sub> H <sub>5</sub> )(PPh <sub>3</sub> ) <sub>2</sub> ] as catalyst in the reaction of primary amines with diaryl diazoalkanes: unexpected formation of Ar <sub>2</sub> C=N-NR compounds. <i>Inorganica Chimica Acta</i> , 2003, 349, 249-252.	2.4	9
69	New Ruthenium(II) Complexes Bearing N-Heterocyclic Carbenes. <i>Organometallics</i> , 2002, 21, 2101-2106.	2.3	42
70	Coordination of cyclo-Octasulfur and cyclo-Heptaselenium to Dinuclear Rhenium(I) Systems. <i>Inorganic Chemistry</i> , 2002, 41, 3894-3900.	4.0	24
71	Carbon-Carbon Double Bond Formation from Two Methyl Groups in Osmium Phosphine Complexes. <i>Organometallics</i> , 2001, 20, 305-308.	2.3	24
72	Functionalised cis-Alkenes from the Stereoselective Decomposition of Diazo Compounds, Catalysed by [RuCl( <i>i</i> -5-C <sub>5</sub> H <sub>5</sub> )(PPh <sub>3</sub> ) <sub>2</sub> ]. <i>European Journal of Organic Chemistry</i> , 2000, 2000, 2795-2801.	2.4	65

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73	Generation and Rearrangements of Ylides from Tertiary Amines and $\hat{\text{I}}\pm$ -Diazo Ketones $\hat{\text{a}}$ Very High Catalytic Activity of $[\text{RuCl}(\hat{\text{I}}\text{-C}_5\text{H}_5)(\text{PPh}_3)_2]$ . <i>European Journal of Organic Chemistry</i> , 2000, 2000, 3731-3735.	2.4	16
74	Convenient syntheses of novel ruthenium catalysts bearing N-heterocyclic carbenes. <i>Journal of Organometallic Chemistry</i> , 2000, 593-594, 489-493.	1.8	54
75	Half-Sandwich Ruthenium(II) Catalysts for $\text{C}\hat{\text{a}}\text{-C}$ Coupling Reactions between Alkenes and Diazo Compounds. <i>Organometallics</i> , 2000, 19, 3664-3669.	2.3	69
76	$[\text{RuCl}_2\{\text{PPh}_2(2,6\text{-Me}_2\text{C}_6\text{H}_3)\}_2]$ : A Neutral 14-Electron Ruthenium(II) Complex with Two Agostic Interactions. <i>Angewandte Chemie - International Edition</i> , 1999, 38, 1629-1631.	13.8	91
77	Half-Sandwich Ruthenium(II) Complexes as Catalysts for Stereoselective Carbene $\hat{\text{a}}$ Carbene Coupling Reactions. <i>Organometallics</i> , 1999, 18, 5091-5096.	2.3	62
78	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. <i>Journal of Organometallic Chemistry</i> , 1997, 541, 445-460.	1.8	38
79	Structure Dynamics in Novelansa-Metallocenes of Niobium and Tantalum. <i>Angewandte Chemie International Edition in English</i> , 1996, 35, 1951-1953.	4.4	43
80	First amido-functionalized niobium and tantalum complexes of the ansa-structural type: synthesis and photochemical $\text{Si}\hat{\text{r}}\text{-N}$ bond cleavage. <i>Journal of Organometallic Chemistry</i> , 1996, 506, 357-361.	1.8	52
81	First amido-functionalized ansa-molybdenocene-type complexes. <i>Journal of Organometallic Chemistry</i> , 1995, 497, C4-C6.	1.8	25
82	$\text{Re}_2\text{I}_2(\text{CO})_6(\text{Se}_7)$ , 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
83	Synthesis and Characterization of Palladium(II) and Platinum(II) Complexes of Dibenzyl Disulfide and Dibenzyl Diselenide. X-ray Structure of $\text{cis-}[\text{PtCl}_2(\text{PMe}_2\text{Ph})_2(\text{Se}_2\text{Bz}_2)]$ . <i>Inorganic Chemistry</i> , 1994, 33, 4494-4501.	4.0	25
84	cyclo-Octasulfur Adducts of $\text{WCl}_4(\text{S})(\text{THF})$ and $\text{WCl}_6$ . Crystal and Molecular Structure of $\text{WCl}_4(\text{S})(\text{THF})\cdot\text{S}_8$ . <i>Inorganic Chemistry</i> , 1994, 33, 3842-3844.	4.0	12
85	A convenient preparation of dinuclear Pt(II) phosphine complexes. <i>Inorganica Chimica Acta</i> , 1993, 209, 85-87.	2.4	41
86	Coordination of sulfur ( $\text{S}_8$ ) to an organotransition-metal system: $\text{Re}_2\text{X}_2(\text{CO})_6(\text{S}_8)$ ( $\text{X} = \text{bromide,}$ ) $\text{Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50}$	2.3	14