

# Barbara A Messerle

## List of Publications by Year in descending order

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86  
papers

2,622  
citations

159585

30  
h-index

214800

47  
g-index

89  
all docs

89  
docs citations

89  
times ranked

2542  
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#	ARTICLE	IF	CITATIONS
1	Intramolecular Hydroamination with Rhodium(I) and Iridium(I) Complexes Containing a Phosphine~N-Heterocyclic Carbene Ligand. <i>Organometallics</i> , 2005, 24, 4241-4250.	2.3	164
2	A Dipicolinic Acid Tag for Rigid Lanthanide Tagging of Proteins and Paramagnetic NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2008, 130, 10486-10487.	13.7	117
3	Cationic Iridium(I) Complexes as Catalysts for the Alcoholysis of Silanes. <i>Organometallics</i> , 2003, 22, 2387-2395.	2.3	116
4	Hydroamination of Alkynes Catalyzed by a Cationic Rhodium(I) Complex. <i>Organometallics</i> , 2000, 19, 87-90.	2.3	91
5	Cyclisation of acetylenic carboxylic acids and acetylenic alcohols to oxygen-containing heterocycles using cationic rhodium(I) complexes. <i>Journal of Organometallic Chemistry</i> , 2000, 607, 97-104.	1.8	86
6	Intramolecular Hydroamination Catalyzed by Cationic Rhodium and Iridium Complexes with Bidentate Nitrogen-Donor Ligands. <i>Organometallics</i> , 2004, 23, 1714-1721.	2.3	81
7	Rhodium- and Iridium-Catalyzed Double Hydroalkoxylation of Alkynes, an Efficient Method for the Synthesis of O,O-Acetals:~% Catalytic and Mechanistic Studies. <i>Organometallics</i> , 2007, 26, 3031-3040.	2.3	75
8	Rhodium(I) and iridium(I) complexes containing bidentate phosphine-imidazolyl donor ligands as catalysts for the hydroamination and hydrothiolation of alkynes. <i>Dalton Transactions</i> , 2009, , 3599.	3.3	75
9	Rhodium(I) and iridium(I) complexes with bidentate N,N and P,N ligands as catalysts for the hydrothiolation of alkynes. <i>Dalton Transactions</i> , 2003, , 4181-4191.	3.3	73
10	Late Transition Metal Catalyzed Intramolecular Hydroamination:~% The Effect of Ligand and Substrate Structure. <i>Organometallics</i> , 2007, 26, 4335-4343.	2.3	65
11	Selective formylation or methylation of amines using carbon dioxide catalysed by a rhodium perimidine-based NHC complex. <i>Green Chemistry</i> , 2019, 21, 538-549.	9.0	65
12	One-Pot Tandem Hydroamination/Hydrosilation Catalyzed by Cationic Iridium(I) Complexes. <i>Organometallics</i> , 2003, 22, 4393-4395.	2.3	59
13	Cooperativity in Bimetallic Dihydroalkoxylation Catalysts Built on Aromatic Scaffolds: Significant Rate Enhancements with a Rigid Anthracene Scaffold. <i>Organometallics</i> , 2011, 30, 5978-5984.	2.3	52
14	3~Mercapto~2,6~Pyridinedicarboxylic Acid: A Small Lanthanide~Binding Tag for Protein Studies by NMR Spectroscopy. <i>Chemistry - A European Journal</i> , 2010, 16, 3827-3832.	3.3	50
15	New Rhodium(I) and Iridium(I) Complexes Containing Mixed Pyrazolyl~1,2,3-Triazolyl Ligands As Catalysts for Hydroamination. <i>Organometallics</i> , 2012, 31, 1790-1800.	2.3	50
16	Hemilabile and Bimetallic Coordination in Rh and Ir Complexes of NCN Pincer Ligands. <i>Inorganic Chemistry</i> , 2014, 53, 10159-10170.	4.0	47
17	Rhodium complexes containing bidentate imidazolyl ligands: synthesis and structure. <i>Journal of Organometallic Chemistry</i> , 1999, 588, 69-77.	1.8	45
18	Intramolecular cyclization of ortho-alkynylanilines by Rh(I)-catalyzed hydroamination to yield benzo(dipyrroles). <i>Tetrahedron Letters</i> , 2009, 50, 1469-1471.	1.4	44

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19	Weakly coordinating counter-ions for highly efficient catalysis of intramolecular hydroamination. Dalton Transactions, 2009, , 634-642.	3.3	44
20	Rhodium(I) and Iridium(I) Complexes with Bidentate Phosphine-Pyrazolyl Ligands: Highly Efficient Catalysts for the Hydroamination Reaction. Organometallics, 2007, 26, 2058-2069.	2.3	38
21	Cooperative Catalysis: Large Rate Enhancements with Bimetallic Rhodium Complexes. Organometallics, 2013, 32, 4726-4729.	2.3	37
22	Synthesis of spiroketals by iridium-catalyzed double hydroalkoxylation. Pure and Applied Chemistry, 2006, 78, 385-390.	1.9	36
23	Ruthenium(II) complexes of hemilabile pincer ligands: synthesis and catalysing the transfer hydrogenation of ketones. Dalton Transactions, 2016, 45, 14335-14342.	3.3	36
24	Iridium(III) homo- and heterogeneous catalysed hydrogen borrowing C-N bond formation. Green Chemistry, 2017, 19, 3142-3151.	9.0	36
25	Synthesis of novel ruthenium complexes containing bidentate imidazole-based ligands. Journal of the Chemical Society Dalton Transactions, 1997, , 2341-2346.	1.1	35
26	Rh(I) Complexes Bearing N,N and N,P Ligands Anchored on Glassy Carbon Electrodes: Toward Recyclable Hydroamination Catalysts. Journal of the American Chemical Society, 2013, 135, 16429-16437.	13.7	35
27	Polypyrazolylmethane complexes of ruthenium. Dalton Transactions RSC, 2001, , 1959-1965.	2.3	34
28	Bimetallic N-Heterocyclic Carbene Rh(I) Complexes: Probing the Cooperative Effect for the Catalyzed Hydroelementation of Alkynes. Organometallics, 2015, 34, 4543-4552.	2.3	34
29	Catalyzed Tandem C-N/C-C Bond Formation for the Synthesis of Tricyclic Indoles using Ir(III) Pyrazolyl-1,2,3-Triazolyl Complexes. Organometallics, 2012, 31, 7500-7510.	2.3	32
30	Iridium(III) Cp* Complexes for the Efficient Hydroamination of Internal Alkynes. Organometallics, 2012, 31, 6270-6277.	2.3	32
31	Pyridine-2,6-bis(thioether) (SNS) Complexes of Ruthenium as Catalysts for Transfer Hydrogenation. Organometallics, 2010, 29, 3790-3798.	2.3	31
32	Bimetallic Complexes for Enhancing Catalyst Efficiency: Probing the Relationship between Activity and Intermetallic Distance. Organometallics, 2013, 32, 5071-5081.	2.3	31
33	Iridium(I)-Catalysed Tandem Hydrosilylation-Protodesilylation of Imines. European Journal of Organic Chemistry, 2005, 2005, 2881-2883.	2.4	30
34	Cationic Rh and Ir complexes containing bidentate imidazolylidene-1,2,3-triazole donor ligands: synthesis and preliminary catalytic studies. Dalton Transactions, 2013, 42, 14298.	3.3	30
35	Highly efficient catalytic routes to spiroketal motifs. Tetrahedron Letters, 2009, 50, 1125-1127.	1.4	29
36	Synthesis of Cp* Iridium and Rhodium Complexes Containing Bidentate sp <sup>2</sup> -N-Donor Ligands and Counter-Anions [Cp*MCl <sub>3</sub> ] <sup>-</sup> . European Journal of Inorganic Chemistry, 2007, 2007, 80-89.	2.0	28

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37	Application of UV-Vis spectroscopy to high throughput screening of hydroamination catalysts. <i>New Journal of Chemistry</i> , 2009, 33, 818.	2.8	25
38	Combined NMR and Molecular Mechanics Study of the Isomers Formed in the Reaction of Dichloro(1,4-diazacycloheptane)platinum(II) with the Dinucleotide d(GpG). <i>Inorganic Chemistry</i> , 1996, 35, 4663-4668.	4.0	24
39	Controlling the selectivity and efficiency of the hydrogen borrowing reaction by switching between rhodium and iridium catalysts. <i>Dalton Transactions</i> , 2019, 48, 13989-13999.	3.3	24
40	Rhodium(i) and iridium(i) complexes of pyrazolyl-N-heterocyclic carbene ligands. <i>Dalton Transactions</i> , 2006, , 3927.	3.3	23
41	Intramolecular hydroamination catalysed by Ag complexes stabilised in situ by bidentate ligands. <i>Journal of Organometallic Chemistry</i> , 2009, 694, 309-312.	1.8	23
42	Highly Efficient Rh(I) Homo- and Heterogeneous Catalysts for C=C-N Couplings via Hydrogen Borrowing. <i>Inorganic Chemistry</i> , 2017, 56, 14682-14687.	4.0	23
43	Synthesis and structures of homo- and heterobimetallic rhodium(i) and/or iridium(i) complexes of binucleating bis(1-pyrazolyl)methane ligands. <i>Dalton Transactions</i> , 2011, 40, 11031.	3.3	22
44	A versatile method for the preparation of carbon-rhodium hybrid catalysts on graphene and carbon black. <i>Chemical Science</i> , 2016, 7, 1996-2004.	7.4	22
45	Harnessing asymmetric N-heterocyclic carbene ligands to optimise SABRE hyperpolarisation. <i>Catalysis Science and Technology</i> , 2018, 8, 4925-4933.	4.1	22
46	Intermolecular Hydroalkoxylation of Terminal Alkynes Catalyzed by a Dipyrinato Rhodium(I) Complex with Unusual Selectivity. <i>Organometallics</i> , 2015, 34, 4312-4317.	2.3	20
47	Gold(III) NHC Complexes for Catalyzing Dihydroalkoxylation and Hydroamination Reactions. <i>Inorganic Chemistry</i> , 2017, 56, 12067-12075.	4.0	20
48	Development of tethered dual catalysts: synergy between photo- and transition metal catalysts for enhanced catalysis. <i>Chemical Science</i> , 2020, 11, 6256-6267.	7.4	20
49	Synthesis and catalytic activity of nickel(II) complexes containing NCN pincer ligands. <i>Journal of Organometallic Chemistry</i> , 2017, 845, 63-70.	1.8	19
50	High throughput screening arrays of rhodium and iridium complexes as catalysts for intramolecular hydroamination using parallel factor analysis. <i>Analyst</i> , 2008, 133, 817.	3.5	18
51	Structure, Stability, and Interconversion Barriers of the Rotamers of cis-[PtIIICl2(quinoline)2] and cis-[PtIIICl2(3-bromoquinoline)(quinoline)] from X-ray Crystallography, NMR Spectroscopy and Molecular Mechanics Evidence. <i>Inorganic Chemistry</i> , 2001, 40, 3048-3054.	4.0	17
52	Unusual Reactivity of the Bis(pyrazolyl)borate Chelate: B-H for B-X (X = F, Cl, OH) Substitution in Complexes of Ruthenium. <i>Organometallics</i> , 2009, 28, 6145-6151.	2.3	17
53	Computational Study of the Mechanism of Cyclic Acetal Formation via the Iridium(I)-Catalyzed Double Hydroalkoxylation of 4-Pentyn-1-ol with Methanol. <i>Organometallics</i> , 2011, 30, 618-626.	2.3	17
54	Rhodium(i) complexes bearing N-donor ligands: catalytic activity towards intramolecular cyclization of alkynoic acids and ligand lability. <i>New Journal of Chemistry</i> , 2011, 35, 1730.	2.8	17

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55	In Situ Catalysts for the Intramolecular Hydroamination of Aminoalkynes - What Ligand Properties Determine Catalyst Activity?. <i>European Journal of Inorganic Chemistry</i> , 2012, 2012, 2226-2231.	2.0	17
56	The advantages of covalently attaching organometallic catalysts to a carbon black support: recyclable Rh( $\kappa^2$ ) complexes that deliver enhanced conversion and product selectivity. <i>Dalton Transactions</i> , 2015, 44, 7917-7926.	3.3	17
57	Simultaneous Functionalization of Carbon Surfaces with Rhodium and Iridium Organometallic Complexes: Hybrid Bimetallic Catalysts for Hydroamination. <i>Organometallics</i> , 2019, 38, 780-787.	2.3	17
58	Pyrazolyl-N-heterocyclic carbene complexes of rhodium as hydrogenation catalysts: The influence of ligand steric bulk on catalyst activity. <i>Dalton Transactions</i> , 2009, , 7029.	3.3	16
59	Binding of [Pt(1C3)(dien)] <sup>2+</sup> to the duplex DNA oligonucleotide 5'-d(TGGCCA)-3': the effect of an appended positive charge on the orientation and location of anthraquinone intercalation. <i>Dalton Transactions</i> , 2009, , 932-939.	3.3	15
60	Intramolecular Hydroamination of Aminoalkenes using Rhodium(I) and Iridium(I) Complexes with N,N- and P,N-Donor Ligands. <i>Australian Journal of Chemistry</i> , 2011, 64, 741.	0.9	15
61	Improving intramolecular hydroamination Rh(i) and Ir(i) catalysts through targeted ligand modification. <i>New Journal of Chemistry</i> , 2010, 34, 1200.	2.8	14
62	Directing the regioselectivity of rhodium(I) catalysed cyclisation of 2-alkynyl benzoic acids. <i>Polyhedron</i> , 2013, 61, 248-252.	2.2	13
63	Formation of a Novel Dipyrrolopyrrole Mediated by a 1,4-Diaza-1,3-diene Complex of Iron. <i>Inorganic Chemistry</i> , 1994, 33, 1539-1542.	4.0	12
64	Rh(I)-Catalyzed Denitrogenative Transformations of 1,2,3-Thiadiazoles: Ligand-Controlled Product Selectivity and the Structure of the Key Organorhodium Intermediate Revealed. <i>ACS Catalysis</i> , 2022, 12, 5574-5584.	11.2	12
65	Cyclization of Acetylenic Amides Using a Cationic Rhodium(I) Complex. <i>Australian Journal of Chemistry</i> , 2004, 57, 677.	0.9	11
66	Enhancements in catalytic reactivity and selectivity of homobimetallic complexes containing heteroditopic ligands. <i>Dalton Transactions</i> , 2017, 46, 7457-7466.	3.3	11
67	Free radical polymerization with catalytic chain transfer: Using NMR to probe the strength of the cobalt-carbon bond in small molecule model reactions. <i>Journal of Polymer Science Part A</i> , 2006, 44, 6171-6189.	2.3	10
68	The mechanism of N-vinylindole formation via tandem imine formation and cycloisomerisation of o-ethynylanilines. <i>Dalton Transactions</i> , 2009, , 10296.	3.3	10
69	Identification by NMR Spectroscopy of the Two Stereoisomers of the Platinum Complex [PtCl <sub>2</sub> (S-ahaz)] (S-ahaz = 3(S)-Amino-hexahydroazepine) Bound to a DNA 14-mer Oligonucleotide. NMR Evidence of Structural Alteration of a Platinated A-T-rich 14-mer DNA Duplex. <i>Inorganic Chemistry</i> , 2009, 48, 3047-3056.	4.0	9
70	Bi- and tri-metallic Rh and Ir complexes containing click derived bis- and tris-(pyrazolyl-1,2,3-triazolyl) N <sup>2</sup> -donor ligands and their application as catalysts for the dihydroalkoxylation of alkynes. <i>Dalton Transactions</i> , 2014, 43, 7540-7553.	3.3	9
71	Ruthenium( $\kappa^2$ ) complexes containing functionalised $\beta^2$ -diketonate ligands: developing a ferrocene mimic for biosensing applications. <i>Dalton Transactions</i> , 2014, 43, 12734-12742.	3.3	9
72	Simple and reactive Ir( $\kappa^1$ ) N-heterocyclic carbene complexes for alkyne activation. <i>Dalton Transactions</i> , 2019, 48, 4333-4340.	3.3	8

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73	Carbon supported hybrid catalysts for controlled product selectivity in the hydrosilylation of alkynes. <i>Catalysis Science and Technology</i> , 2021, 11, 1888-1898.	4.1	8
74	A Ruthenium Based Organometallic Complex for Biosensing that is both a Stable Redox Label and a Homobifunctional Linker. <i>Electroanalysis</i> , 2015, 27, 1078-1085.	2.9	7
75	Highly versatile heteroditopic ligand scaffolds for accommodating group 8, 9 & 11 heterobimetallic complexes. <i>Dalton Transactions</i> , 2017, 46, 14406-14419.	3.3	7
76	Addition of H <sub>2</sub> to a cationic iridium(I) complex: a study using parahydrogen NMR. <i>Dalton Transactions RSC</i> , 2000, , 2251-2253.	2.3	6
77	Isomer formation in the binding of [PtCl <sub>2</sub> (cis-cyclohexane-1,3-diamine)] to oligonucleotides and the X-ray crystal structure of [PtCl <sub>2</sub> (cis-cyclohexane-1,3-diamine)]·dimethylformamide. <i>Dalton Transactions RSC</i> , 2001, , 2769-2774.	2.3	6
78	Formation of Metallacyclobutene Complexes via the Addition of Hydrazines to Ruthenium Vinylidene Complexes. <i>Organometallics</i> , 2008, 27, 4657-4665.	2.3	6
79	Fast CE for combinatorial catalysis. <i>Electrophoresis</i> , 2008, 29, 491-498.	2.4	5
80	Engineering regioselectivity in the hydrosilylation of alkynes using heterobimetallic dual-functional hybrid catalysts. <i>Catalysis Science and Technology</i> , 2022, 12, 226-236.	4.1	5
81	Understanding the Synergistic Effects Observed When Using Tethered Dual Catalysts for Heat and Light Activated Catalysis. <i>ChemCatChem</i> , 2020, 12, 5091-5097.	3.7	4
82	Alkyne Activation Using Bimetallic Catalysts. <i>Topics in Organometallic Chemistry</i> , 2015, , 103-137.	0.7	3
83	Solid-State NMR Structure Characterization of a <sup>13</sup> CO-Labeled Ir(I) Complex with a P,N-Donor Ligand Including Ultrafast MAS Methods. <i>Inorganic Chemistry</i> , 2014, 53, 7146-7153.	4.0	2
84	Synthesis of New 4-alkenyl-1,2,3,4-thiadiazoles. <i>ChemistrySelect</i> , 2021, 6, 10527-10531.	1.5	2
85	Dendrimeric and Corresponding Monometallic Iridium(III) Catalysts Bound to Carbon Nanotubes Used in Hydroamination Transformations. <i>European Journal of Inorganic Chemistry</i> , 2021, 2021, 3448-3457.	2.0	0
86	Development of a Tethered Palladium-BODIPY Dual Catalyst for Enhanced Photo- and Thermally Activated Catalysis, and for Promoting Sequential Reactivity. <i>Australian Journal of Chemistry</i> , 2020, , .	0.9	0