Barbara A Messerle

List of Publications by Year
in descending order

86	2,622	159585	214800
papers	citations	30 h-index	47 g-index

89	89	89	2542
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Engineering regioselectivity in the hydrosilylation of alkynes using heterobimetallic dual-functional hybrid catalysts. Catalysis Science and Technology, 2022, 12, 226-236.	4.1	5
2	Rh(I)-Catalyzed Denitrogenative Transformations of 1,2,3-Thiadiazoles: Ligand-Controlled Product Selectivity and the Structure of the Key Organorhodium Intermediate Revealed. ACS Catalysis, 2022, 12, 5574-5584.	11.2	12
3	Dendrimeric and Corresponding Monometallic Iridium(III) Catalysts Bound to Carbon Nanotubes Used in Hydroamination Transformations. European Journal of Inorganic Chemistry, 2021, 2021, 3448-3457.	2.0	0
4	Carbon supported hybrid catalysts for controlled product selectivity in the hydrosilylation of alkynes. Catalysis Science and Technology, 2021, 11, 1888-1898.	4.1	8
5	Synthesis of New 4â€Vinylâ€1,2,3â€Thiadiazoles. ChemistrySelect, 2021, 6, 10527-10531.	1.5	2
6	Understanding the Synergistic Effects Observed When Using Tethered Dual Catalysts for Heat and Light Activated Catalysis. ChemCatChem, 2020, 12, 5091-5097.	3.7	4
7	Development of tethered dual catalysts: synergy between photo- and transition metal catalysts for enhanced catalysis. Chemical Science, 2020, 11, 6256-6267.	7.4	20
8	Development of a Tethered Palladiumâ€"BODIPY Dual Catalyst for Enhanced Photo- and Thermally Activated Catalysis, and for Promoting Sequential Reactivity. Australian Journal of Chemistry, 2020, , .	0.9	0
9	Controlling the selectivity and efficiency of the hydrogen borrowing reaction by switching between rhodium and iridium catalysts. Dalton Transactions, 2019, 48, 13989-13999.	3.3	24
10	Selective formylation or methylation of amines using carbon dioxide catalysed by a rhodium perimidine-based NHC complex. Green Chemistry, 2019, 21, 538-549.	9.0	65
11	Simple and reactive Ir(<scp>i</scp>) N-heterocyclic carbene complexes for alkyne activation. Dalton Transactions, 2019, 48, 4333-4340.	3.3	8
12	Simultaneous Functionalization of Carbon Surfaces with Rhodium and Iridium Organometallic Complexes: Hybrid Bimetallic Catalysts for Hydroamination. Organometallics, 2019, 38, 780-787.	2.3	17
13	Harnessing asymmetric N-heterocyclic carbene ligands to optimise SABRE hyperpolarisation. Catalysis Science and Technology, 2018, 8, 4925-4933.	4.1	22
14	Synthesis and catalytic activity of nickel(II) complexes containing NCN pincer ligands. Journal of Organometallic Chemistry, 2017, 845, 63-70.	1.8	19
15	Enhancements in catalytic reactivity and selectivity of homobimetallic complexes containing heteroditopic ligands. Dalton Transactions, 2017, 46, 7457-7466.	3.3	11
16	Iridium(<scp>iii</scp>) homo- and heterogeneous catalysed hydrogen borrowing Câ€"N bond formation. Green Chemistry, 2017, 19, 3142-3151.	9.0	36
17	Highly versatile heteroditopic ligand scaffolds for accommodating group 8, 9 & 11 heterobimetallic complexes. Dalton Transactions, 2017, 46, 14406-14419.	3.3	7
18	Gold(III) NHC Complexes for Catalyzing Dihydroalkoxylation and Hydroamination Reactions. Inorganic Chemistry, 2017, 56, 12067-12075.	4.0	20

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19	Highly Efficient Rh(I) Homo- and Heterogeneous Catalysts for Câ€“N Couplings via Hydrogen Borrowing. Inorganic Chemistry, 2017, 56, 14682-14687.	4.0	23
20	Ruthenium(<scp>ii</scp>) complexes of hemilabile pincer ligands: synthesis and catalysing the transfer hydrogenation of ketones. Dalton Transactions, 2016, 45, 14335-14342.	3.3	36
21	A versatile method for the preparation of carbonâ€“rhodium hybrid catalysts on graphene and carbon black. Chemical Science, 2016, 7, 1996-2004.	7.4	22
22	A Ruthenium Based Organometallic Complex for Biosensing that is both a Stable Redox Label and a Homobifunctional Linker. Electroanalysis, 2015, 27, 1078-1085.	2.9	7
23	Alkyne Activation Using Bimetallic Catalysts. Topics in Organometallic Chemistry, 2015, , 103-137.	0.7	3
24	The advantages of covalently attaching organometallic catalysts to a carbon black support: recyclable Rh(<scp>i</scp>) complexes that deliver enhanced conversion and product selectivity. Dalton Transactions, 2015, 44, 7917-7926.	3.3	17
25	Intermolecular Hydroalkoxylation of Terminal Alkynes Catalyzed by a Dipyrrinato Rhodium(I) Complex with Unusual Selectivity. Organometallics, 2015, 34, 4312-4317.	2.3	20
26	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
27	Bi- and tri-metallic Rh and Ir complexes containing click derived bis- and tris-(pyrazolyl-1,2,3-triazolyl) Nâ€“Nâ€² donor ligands and their application as catalysts for the dihydroalkoxylation of alkynes. Dalton Transactions, 2014, 43, 7540-7553.	3.3	9
28	Ruthenium(<scp>ii</scp>) complexes containing functionalised Î²-diketonate ligands: developing a ferrocene mimic for biosensing applications. Dalton Transactions, 2014, 43, 12734-12742.	3.3	9
29	Solid-State NMR Structure Characterization of a 13CO-Labeled Ir(I) Complex with a P,N-Donor Ligand Including Ultrafast MAS Methods. Inorganic Chemistry, 2014, 53, 7146-7153.	4.0	2
30	Hemilabile and Bimetallic Coordination in Rh and Ir Complexes of NCN Pincer Ligands. Inorganic Chemistry, 2014, 53, 10159-10170.	4.0	47
31	Cooperative Catalysis: Large Rate Enhancements with Bimetallic Rhodium Complexes. Organometallics, 2013, 32, 4726-4729.	2.3	37
32	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
33	Bimetallic Complexes for Enhancing Catalyst Efficiency: Probing the Relationship between Activity and Intermetallic Distance. Organometallics, 2013, 32, 5071-5081.	2.3	31
34	Directing the regioselectivity of rhodium(I) catalysed cyclisation of 2-alkynyl benzoic acids. Polyhedron, 2013, 61, 248-252.	2.2	13
35	Cationic Rh and Ir complexes containing bidentate imidazolylideneâ€“1,2,3-triazole donor ligands: synthesis and preliminary catalytic studies. Dalton Transactions, 2013, 42, 14298.	3.3	30
36	Catalyzed Tandem Câ€“N/Câ€“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

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37	Iridium(III) Cp* Complexes for the Efficient Hydroamination of Internal Alkynes. Organometallics, 2012, 31, 6270-6277.	2.3	32
38	New Rhodium(I) and Iridium(I) Complexes Containing Mixed Pyrazolylâ€“1,2,3-Triazolyl Ligands As Catalysts for Hydroamination. Organometallics, 2012, 31, 1790-1800.	2.3	50
39	In Situ Catalysts for the Intramolecular Hydroamination of Aminoalkynes - What Ligand Properties Determine Catalyst Activity?. European Journal of Inorganic Chemistry, 2012, 2012, 2226-2231.	2.0	17
40	Synthesis and structures of homo- and heterobimetallic rhodium(i) and/or iridium(i) complexes of binucleating bis(1-pyrazolyl)methane ligands. Dalton Transactions, 2011, 40, 11031.	3.3	22
41	Computational Study of the Mechanism of Cyclic Acetal Formation via the Iridium(I)-Catalyzed Double Hydroalkoxylation of 4-Pentyn-1-ol with Methanol. Organometallics, 2011, 30, 618-626.	2.3	17
42	Rhodium(i) complexes bearing N-donor ligands: catalytic activity towards intramolecular cyclization of alkynoic acids and ligand lability. New Journal of Chemistry, 2011, 35, 1730.	2.8	17
43	Intramolecular Hydroamination of Aminoalkenes using Rhodium(I) and Iridium(I) Complexes with N,N- and P,N-Donor Ligands. Australian Journal of Chemistry, 2011, 64, 741.	0.9	15
44	Cooperativity in Bimetallic Dihydroalkoxylation Catalysts Built on Aromatic Scaffolds: Significant Rate Enhancements with a Rigid Anthracene Scaffold. Organometallics, 2011, 30, 5978-5984.	2.3	52
45	3â€Mercaptoâ€2,6â€Pyridinedicarboxylic Acid: A Small Lanthanideâ€Binding Tag for Protein Studies by NMR Spectroscopy. Chemistry - A European Journal, 2010, 16, 3827-3832.	3.3	50
46	Pyridine-2,6-bis(thioether) (SNS) Complexes of Ruthenium as Catalysts for Transfer Hydrogenation. Organometallics, 2010, 29, 3790-3798.	2.3	31
47	Improving intramolecular hydroamination Rh(i) and Ir(i) catalysts through targeted ligand modification. New Journal of Chemistry, 2010, 34, 1200.	2.8	14
48	Intramolecular cyclization of ortho-alkynylanilines by Rh(I)-catalyzed hydroamination to yield benzo(dipyrroles). Tetrahedron Letters, 2009, 50, 1469-1471.	1.4	44
49	Highly efficient catalytic routes to spiroketal motifs. Tetrahedron Letters, 2009, 50, 1125-1127.	1.4	29
50	Intramolecular hydroamination catalysed by Ag complexes stabilised in situ by bidentate ligands. Journal of Organometallic Chemistry, 2009, 694, 309-312.	1.8	23
51	Unusual Reactivity of the Bis(pyrazolyl)borate Chelate: Bâ^'H for Bâ^'X (X = F, Cl, OH) Substitution in Complexes of Ruthenium. Organometallics, 2009, 28, 6145-6151.	2.3	17
52	Application of UV-Vis spectroscopy to high throughput screening of hydroamination catalysts. New Journal of Chemistry, 2009, 33, 818.	2.8	25
53	Identification by NMR Spectroscopy of the Two Stereoisomers of the Platinum Complex [PtCl2(S-ahaz)] (S-ahaz = 3(S)-Aminohexahydroazepine) Bound to a DNA 14-mer Oligonucleotide. NMR Evidence of Structural Alteration of a Platinated AÂ·T-rich 14-mer DNA Duplex. Inorganic Chemistry, 2009, 48, 3047-3056.	4.0	9
54	Weakly coordinating counter-ions for highly efficient catalysis of intramolecular hydroamination. Dalton Transactions, 2009, , 634-642.	3.3	44

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55	Rhodium(I) and iridium(I) complexes containing bidentate phosphine-imidazolyl donor ligands as catalysts for the hydroamination and hydrothiolation of alkynes. Dalton Transactions, 2009, , 3599.	3.3	75
56	Binding of [Pt(1C3)(dien)]2+to the duplex DNAoligonucleotide5â€²-d(TGGCCA)-3â€²: the effect of an appended positive charge on the orientation and location of anthraquinone intercalation. Dalton Transactions, 2009, , 932-939.	3.3	15
57	The mechanism of N-vinylindole formation via tandem imine formation and cycloisomerisation of o-ethynylanilines. Dalton Transactions, 2009, , 10296.	3.3	10
58	Pyrazolyl-N-heterocyclic carbene complexes of rhodium as hydrogenation catalysts: The influence of ligand steric bulk on catalyst activity. Dalton Transactions, 2009, , 7029.	3.3	16
59	Fast CE for combinatorial catalysis. Electrophoresis, 2008, 29, 491-498.	2.4	5
60	High throughput screening arrays of rhodium and iridium complexes as catalysts for intramolecular hydroamination using parallel factor analysis. Analyst, The, 2008, 133, 817.	3.5	18
61	Formation of Metallacyclobutene Complexes via the Addition of Hydrazines to Ruthenium Vinylidene Complexes. Organometallics, 2008, 27, 4657-4665.	2.3	6
62	A Dipicolinic Acid Tag for Rigid Lanthanide Tagging of Proteins and Paramagnetic NMR Spectroscopy. Journal of the American Chemical Society, 2008, 130, 10486-10487.	13.7	117
63	Rhodium- and Iridium-Catalyzed Double Hydroalkoxylation of Alkynes, an Efficient Method for the Synthesis of O,O-Acetals:â€‰ Catalytic and Mechanistic Studies. Organometallics, 2007, 26, 3031-3040.	2.3	75
64	Rhodium(I) and Iridium(I) Complexes with Bidentate Phosphineâ^'Pyrazolyl Ligands:Â Highly Efficient Catalysts for the Hydroamination Reaction. Organometallics, 2007, 26, 2058-2069.	2.3	38
65	Late Transition Metal Catalyzed Intramolecular Hydroamination:â€‰ The Effect of Ligand and Substrate Structure. Organometallics, 2007, 26, 4335-4343.	2.3	65
66	Synthesis of Cp* Iridium and Rhodium Complexes Containing Bidentate sp2-N-Donor Ligands and Counter-Anions [Cp*MCl3]â€“. European Journal of Inorganic Chemistry, 2007, 2007, 80-89.	2.0	28
67	Rhodium(i) and iridium(i) complexes of pyrazolyl-N-heterocyclic carbene ligands. Dalton Transactions, 2006, , 3927.	3.3	23
68	Synthesis of spiroketals by iridium-catalyzed double hydroalkoxylation. Pure and Applied Chemistry, 2006, 78, 385-390.	1.9	36
69	Free radical polymerization with catalytic chain transfer: Using NMR to probe the strength of the cobaltâ€“carbon bond in small molecule model reactions. Journal of Polymer Science Part A, 2006, 44, 6171-6189.	2.3	10
70	Iridium(I)-Catalysed Tandem Hydrosilylation-Protodesilylation of Imines. European Journal of Organic Chemistry, 2005, 2005, 2881-2883.	2.4	30
71	Intramolecular Hydroamination with Rhodium(I) and Iridium(I) Complexes Containing a Phosphineâ^'N-Heterocyclic Carbene Ligand. Organometallics, 2005, 24, 4241-4250.	2.3	164
72	Intramolecular Hydroamination Catalyzed by Cationic Rhodium and Iridium Complexes with Bidentate Nitrogen-Donor Ligands. Organometallics, 2004, 23, 1714-1721.	2.3	81

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73	Cyclization of Acetylenic Amides Using a Cationic Rhodium(I) Complex. Australian Journal of Chemistry, 2004, 57, 677.	0.9	11
74	One-Pot Tandem Hydroamination/Hydrosilation Catalyzed by Cationic Iridium(I) Complexes. Organometallics, 2003, 22, 4393-4395.	2.3	59
75	Cationic Iridium(I) Complexes as Catalysts for the Alcoholysis of Silanes. Organometallics, 2003, 22, 2387-2395.	2.3	116
76	Rhodium(i) and iridium(i) complexes with bidentate N,N and P,N ligands as catalysts for the hydrothiolation of alkynes. Dalton Transactions, 2003, , 4181-4191.	3.3	73
77	Structure, Stability, and Interconversion Barriers of the Rotamers ofcis-[PtIICl2(quinoline)2] andcis-[PtIICl2(3-bromoquinoline)(quinoline)] from X-ray Crystallography, NMR Spectroscopy and Molecular Mechanics Evidence. Inorganic Chemistry, 2001, 40, 3048-3054.	4.0	17
78	Isomer formation in the binding of [PtCl2(cis-cyclohexane-1,3-diamine)] to oligonucleotides and the X-ray crystal structure of [PtCl2(cis-cyclohexane-1,3-diamine)]Â·dimethylformamideâ€. Dalton Transactions RSC, 2001, , 2769-2774.	2.3	6
79	Polypyrazolylmethane complexes of ruthenium. Dalton Transactions RSC, 2001, , 1959-1965.	2.3	34
80	Cyclisation of acetylenic carboxylic acids and acetylenic alcohols to oxygen-containing heterocycles using cationic rhodium(I) complexes. Journal of Organometallic Chemistry, 2000, 607, 97-104.	1.8	86
81	Addition of H2 to a cationic iridium(I) complex: a study using parahydrogen NMR. Dalton Transactions RSC, 2000, , 2251-2253.	2.3	6
82	Hydroamination of Alkynes Catalyzed by a Cationic Rhodium(I) Complex. Organometallics, 2000, 19, 87-90.	2.3	91
83	Rhodium complexes containing bidentate imidazolyl ligands: synthesis and structure. Journal of Organometallic Chemistry, 1999, 588, 69-77.	1.8	45
84	Synthesis of novel ruthenium complexes containing bidentate imidazole-based ligands. Journal of the Chemical Society Dalton Transactions, 1997, , 2341-2346.	1.1	35
85	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). Inorganic Chemistry, 1996, 35, 4663-4668.	4.0	24
86	Formation of a Novel Dipyrrolopyrrole Mediated by a 1,4-Diaza-1,3-diene Complex of Iron. Inorganic Chemistry, 1994, 33, 1539-1542.	4.0	12