Jeff W Kampf

List of Publications by Year
in descending order

117 papers	5,823 citations	66343 42 h-index	85541 71 g-index
126 all docs	126 docs citations	126 times ranked	4682 citing authors

#	Article	IF	Citations
1	Synthesis, Structure, and Magnetic Properties of a Large Lanthanideâ€“Transition-Metal Single-Molecule Magnet. Angewandte Chemie - International Edition, 2004, 43, 3912-3914.	13.8	522
2	Functional Models for Vanadium Haloperoxidase:â€‰ Reactivity and Mechanism of Halide Oxidation. Journal of the American Chemical Society, 1996, 118, 3469-3478.	13.7	328
3	Ga³⁺/Ln³⁺ Metallacrowns: A Promising Family of Highly Luminescent Lanthanide Complexes That Covers Visible and Near-Infrared Domains. Journal of the American Chemical Society, 2016, 138, 5100-5109.	13.7	170
4	Chiral 15-Metallacrown-5 Complexes Differentially Bind Carboxylate Anions. Journal of the American Chemical Society, 2001, 123, 6211-6212.	13.7	132
5	Using LnIII[15-MCCuII(N)(S)-pheHA-5]3+ Complexes To Construct Chiral Single-Molecule Magnets and Chains of Single-Molecule Magnets. Inorganic Chemistry, 2006, 45, 10022-10024.	4.0	122
6	Metallacrowns: A New Class of Molecular Recognition Agents. Progress in Inorganic Chemistry, 0, , 83-177.	3.0	121
7	A Detailed Study of Acetate-Assisted Câ€“H Activation at Palladium(IV) Centers. Journal of the American Chemical Society, 2013, 135, 6618-6625.	13.7	115
8	Assessing the exchange coupling in binuclear lanthanide(<scp>iii</scp>) complexes and the slow relaxation of the magnetization in the antiferromagnetically coupled Dy₂ derivative. Chemical Science, 2015, 6, 4148-4159.	7.4	114
9	Carbonâ€“Carbon Bond-Forming Reductive Elimination from Isolated Nickel(III) Complexes. Journal of the American Chemical Society, 2016, 138, 16105-16111.	13.7	113
10	Lanthanide [15]Metallacrown-5 Complexes Form Nitrate-Selective Chiral Cavities. Angewandte Chemie - International Edition, 2000, 39, 2689-2692.	13.8	112
11	Upgrading ethanol to 1-butanol with a homogeneous air-stable ruthenium catalyst. Chemical Communications, 2016, 52, 2901-2904.	4.1	111
12	Base-Free, Acceptorless, and Chemoselective Alcohol Dehydrogenation Catalyzed by an Amide-Derived NNN-Ruthenium(II) Hydride Complex. Organometallics, 2013, 32, 2046-2049.	2.3	109
13	Metallacryptate Single-Molecule Magnets:Â Effect of Lower Molecular Symmetry on Blocking Temperature. Journal of the American Chemical Society, 2005, 127, 12862-12872.	13.7	108
14	Synthesis of 1,2-Dihydro-1,2-azaborines and Their Conversion to Tricarbonyl Chromium and Molybdenum Complexes. Organometallics, 2001, 20, 5413-5418.	2.3	107
15	Role of a Noninnocent Pincer Ligand in the Activation of CO₂ at (PNN)Ru(H)(CO). Organometallics, 2012, 31, 4643-4645.	2.3	106
16	Structural Evaluation and Solution Integrity of Alkali Metal Salt Complexes of the Manganese 12-Metallacrown-4 (12-MC-4) Structural Type. Inorganic Chemistry, 1996, 35, 6184-6193.	4.0	104
17	A Mixed 3dâ€“4f 14-Metallacrown-5 Complex That Displays Slow Magnetic Relaxation through Geometric Control of Magnetoanisotropy. Inorganic Chemistry, 2010, 49, 9104-9106.	4.0	101
18	Preparation of Site-Differentiated Mixed Ligand and Mixed Ligand/Mixed Metal Metallacrowns. Inorganic Chemistry, 2001, 40, 1562-1570.	4.0	100

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19	Regulation of Iron-Catalyzed Olefin Hydroboration by Ligand Modifications at a Remote Site. ACS Catalysis, 2015, 5, 411-415.	11.2	97
20	Competition between sp³-Câ€“N vs sp³-Câ€“F Reductive Elimination from Pd^{IV} Complexes. Journal of the American Chemical Society, 2014, 136, 4097-4100.	13.7	92
21	Syntheses of Ring-Fused Bâ^'N Heteroaromatic Compounds. Organometallics, 2006, 25, 513-518.	2.3	89
22	Mechanism of N,N,N-Amide Ruthenium(II) Hydride Mediated Acceptorless Alcohol Dehydrogenation: Inner-Sphere Î²-H Elimination versus Outer-Sphere Bifunctional Metalâ€“Ligand Cooperativity. ACS Catalysis, 2015, 5, 5468-5485.	11.2	77
23	Cross-Metathesis of Vinyl Halides. Scope and Limitations of Ruthenium-Based Catalysts. Organometallics, 2009, 28, 2880-2887.	2.3	72
24	Modular Attachment of Appended Boron Lewis Acids to a Ruthenium Pincer Catalyst: Metalâ€“Ligand Cooperativity Enables Selective Alkyne Hydrogenation. Journal of the American Chemical Society, 2016, 138, 10378-10381.	13.7	70
25	Synthesis and Reactivity of a Novel Palladium Germylene System. Organometallics, 2002, 21, 5373-5381.	2.3	62
26	Oxidatively Induced Câ€“H Activation at High Valent Nickel. Journal of the American Chemical Society, 2017, 139, 6058-6061.	13.7	62
27	Crystal Engineering of Conjugated Oligomers and the Spectral Signature of Ï€ Stacking in Conjugated Oligomers and Polymers. Chemistry of Materials, 2000, 12, 1519-1522.	6.7	61
28	Syntheses and Structures of 6,13-Dihydro-6,13-diborapentacenes: Ï€-Stacking in Heterocyclic Analogues of Pentacene. Organometallics, 2008, 27, 3639-3641.	2.3	59
29	Gd(III)[15-Metallacrown-5] Recognition of Chiral Î±-Amino Acid Analogues. Inorganic Chemistry, 2011, 50, 4832-4841.	4.0	59
30	Influencing the Size and Anion Selectivity of Dimeric Ln³⁺[15-Metallacrown-5] Compartments through Systematic Variation of the Host Side Chains and Central Metal. Inorganic Chemistry, 2012, 51, 4527-4538.	4.0	59
31	Stoichiometric and Catalytic Arylâ€“Perfluoroalkyl Coupling at Tri-tert-butylphosphine Palladium(II) Complexes. Journal of the American Chemical Society, 2017, 139, 11662-11665.	13.7	59
32	Aminoboratabenzenes. An Evaluation of the Exocyclic Bâ^'N Interaction. Organometallics, 1996, 15, 387-393.	2.3	58
33	Aminoboranediyl-Bridged Zirconocenes:â€‰ Highly Active Olefin Polymerization Catalysts. Organometallics, 1999, 18, 2288-2290.	2.3	58
34	1,2-Azaboratabenzene:â€‰ A Heterocyclic Ï€-Ligand with an Adjustable Basicity at Nitrogen. Organometallics, 2004, 23, 5626-5629.	2.3	56
35	Aromatic Boron Heterocycles: The Generation of 1 H-Borepin and the Structure of Tricarbonyl(1-phenylborepin)molybdenum. Angewandte Chemie International Edition in English, 1992, 31, 1255-1258.	4.4	55
36	Bridged Boratabenzene Zirconium Complexes:Â Analogues of theansa-Zirconocene Polymerization Catalysts. Organometallics, 1998, 17, 3883-3888.	2.3	55

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37	A magnesium tetraphenylaluminate battery electrolyte exhibits a wide electrochemical potential window and reduces stainless steel corrosion. Journal of Materials Chemistry A, 2014, 2, 18194-18198.	10.3	53
38	Connecting Organometallic Ni(III) and Ni(IV): Reactions of Carbon-Centered Radicals with High-Valent Organonickel Complexes. Journal of the American Chemical Society, 2019, 141, 8914-8920.	13.7	49
39	Oneâ€Step Assembly of Visible and Nearâ€Infrared Emitting Metallacrown Dimers Using a Bifunctional Linker. Chemistry - A European Journal, 2018, 24, 1031-1035.	3.3	47
40	Stable, Well-Defined Nickel(0) Catalysts for Catalytic Câ€“C and Câ€“N Bond Formation. ACS Catalysis, 2018, 8, 6606-6611.	11.2	47
41	Aromatic Gallium Heterocycles: Synthesis of the First Gallatabenzene. Angewandte Chemie International Edition in English, 1995, 34, 1357-1359.	4.4	45
42	The Nature of the Bridging Anion Controls the Single-Molecule Magnetic Properties of DyX₄M 12-Metallacrown-4 Complexes. Inorganic Chemistry, 2016, 55, 10597-10607.	4.0	45
43	Synthesis and Coordination Chemistry of 3a,7a-Azaborindenyl, a New Isoelectronic Analogue of the Indenyl Ligand. Organometallics, 2002, 21, 4578-4580.	2.3	43
44	1,2-Dihydro-1,2-oxaborine:â€‰ A Boronâ^'Oxygen Heterocycle Isoelectronic with Benzene. Organometallics, 2007, 26, 1563-1564.	2.3	42
45	Structural Evidence of the Aromaticity of Borepins: A Comparison of 1-Chloroborepin and Tricarbonyl(1-chloroborepin)molybdenum. Angewandte Chemie International Edition in English, 1993, 32, 1065-1066.	4.4	41
46	Boratabenzene Analogues of the Constrained Geometry Polymerization Catalysts. Organometallics, 1999, 18, 1363-1365.	2.3	41
47	Defluorinative Functionalization of Pd(II) Fluoroalkyl Complexes. Journal of the American Chemical Society, 2020, 142, 18698-18705.	13.7	41
48	Synthesis and Properties of 1-Substituted 1-Boratanaphthalenes. Organometallics, 1999, 18, 466-473.	2.3	40
49	The Preparation and Crystal Structures of Î·¹-Derivatives of 2-Phenyl-1,2-azaboratabenzene. Organometallics, 2008, 27, 1345-1347.	2.3	39
50	Conformational Properties of Boron-Bridged Dimethylethylenediamino Bis(boratabenzene) Zirconium(IV) and Iron(II) Complexes. Organometallics, 2001, 20, 468-473.	2.3	38
51	The reaction of sulfur with dilithio compounds. The syntheses and structures of phenanthro [1, 10-cd]-1,2-dithiole and phenanthro[4,5-cde] [1,2]dithiin. Heteroatom Chemistry, 1994, 5, 113-119.	0.7	37
52	Electrophilic Câ€“H Borylation and Related Reactions of Bâ€“H Boron Cations. Organometallics, 2013, 32, 6701-6711.	2.3	37
53	Arylâ€“Fluoride Bond-Forming Reductive Elimination from Nickel(IV) Centers. Journal of the American Chemical Society, 2019, 141, 13261-13267.	13.7	37
54	Intermediates in the Catalytic Dehydrogenative Coupling of Arylgermanes. Chemistry - A European Journal, 1997, 3, 1793-1796.	3.3	36

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55	Intramolecular Bâ˜N Coordination in Boratabenzene Complexes. Organometallics, 1997, 16, 163-167.	2.3	34
56	Synthesis, Structure, and Olefin Metathesis Activity of Two Ruthenium Monofluoromethylidene Complexes. Organometallics, 2007, 26, 780-782.	2.3	34
57	Syntheses of [6,6]-Fused-Ring 1,2-Azaborines. Organometallics, 2014, 33, 1318-1321.	2.3	34
58	Catalytically Relevant Intermediates in the Ni-Catalyzed C(sp²â€“H and C(sp³â€“H Functionalization of Aminoquinoline Substrates. Journal of the American Chemical Society, 2019, 141, 17382-17387.	13.7	34
59	Tricarbonylchromium Complexes of 1,2-Dihydro-1,2-benzazaborines. Organometallics, 2009, 28, 506-511.	2.3	33
60	TheCs-Symmetric Aminoboranediyl-Bridged Zirconocene Dichloride [(Î·-9-C13H8)- BN(iPr)2(Î·-C5H4)]ZrCl2:Â Its Synthesis, Structure, and Behavior as an Olefin Polymerization Catalyst. Organometallics, 2004, 23, 2197-2200.	2.3	30
61	Silylene- and Germylene-Mediated Câ˜H Activation: Reaction with Alkanes, Ethers, and Amines. Organometallics, 2009, 28, 2744-2755.	2.3	30
62	Boratabenzene Zirconium(II) Complexes: An Unusual Annulation with Ethynes. Angewandte Chemie International Edition in English, 1997, 36, 2014-2016.	4.4	29
63	Arylâ€“CF₃ Coupling from Phosphinoferrocene-Ligated Palladium(II) Complexes. Organometallics, 2019, 38, 519-526.	2.3	29
64	Haptotropic Migration from the Six- to the Five-Membered Ring of (3a,7a-Azaborindenyl)tricarbonylchromium Anion. Organometallics, 2006, 25, 3463-3467.	2.3	28
65	Selective anion encapsulation in solid-state Ln(iii)[15-metallacrown-5]3+ compartments through secondary sphere interactions. Dalton Transactions, 2013, 42, 9803.	3.3	28
66	Synthesis and Magnetic Characterization of Fe(III)-Based 9-Metallacrown-3 Complexes Which Exhibit Magnetorefrigerant Properties. Inorganic Chemistry, 2016, 55, 10238-10247.	4.0	28
67	1,2-Thiaborolide:Â A New Heteroaromatic Ï€-Ligand Containing Boron and Sulfur. Organometallics, 2000, 19, 4935-4937.	2.3	26
68	1,3-Thiaborolide:â€‰ A New Heteroaromatic Surrogate for Cyclopentadienide. Organometallics, 1999, 18, 1821-1823.	2.3	25
69	Nickel(II/IV) Manifold Enables Room-Temperature C(sp³â€“H Functionalization. Journal of the American Chemical Society, 2019, 141, 19513-19520.	13.7	25
70	Molybdenum Tricarbonyl Complexes of 1-Substituted Borepins. Organometallics, 1997, 16, 1884-1889.	2.3	24
71	1,3-Benzothiaborolide:â€‰ A New Heteroaromatic Anion. Organometallics, 1998, 17, 2379-2381.	2.3	24
72	A Stannylene/Aryl Iodide Reagent for Allylic CH Activation and Double Bond Addition Chemistry. Organometallics, 2008, 27, 1041-1043.	2.3	24

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73	Strukturbeweis der AromatizitÃt von Borepinen: ein Vergleich von 1â€Chlorborepin und Tricarbonyl(1â€chlorborepin)molybdÃn. Angewandte Chemie, 1993, 105, 1112-1113.	2.0	23
74	Trinuclear Mixed-Valent MnII/MnIV/MnII Complexesâ€" Structure and Magnetic Behavior. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2003, 629, 2348-2355.	1.2	22
75	A Unique Ln III {[3.3.1]Ga III Metallacryptate} Series That Possesses Properties of Slow Magnetic Relaxation and Visible/Nearâ€Infrared Luminescence. Chemistry - A European Journal, 2018, 24, 10773-10783.	3.3	22
76	2H-1,2-Thiaborin: A New Boronâ€"Sulfur Heterocycle. Organometallics, 2011, 30, 3698-3700.	2.3	21
77	Improved Synthesis of [Cp^RRhCl₂]₂ Complexes. Organometallics, 2018, 37, 3240-3242.	2.3	21
78	1-Arsanaphthalene. The Structure of Tricarbonyl(2-trimethylsilyl-1-arsanaphthalene)molybdenum. Organometallics, 2001, 20, 2109-2113.	2.3	20
79	1,4-Phosphaboratabenzene:Â A Heteroaromatic Ï€-Ligand Containing Boron and Phosphorus. Organometallics, 2003, 22, 910-912.	2.3	20
80	A Boron Analogue of Furan. The Synthesis and Coordination Chemistry of 2-Substituted-1,2-Oxaborolides. Organometallics, 2004, 23, 5088-5091.	2.3	20
81	Isolable Pyridinium Trifluoromethoxide Salt for Nucleophilic Trifluoromethoxylation. Organic Letters, 2021, 23, 5138-5142.	4.6	20
82	Reaction of Bis(1-substituted-1-boratabenzene)bis(trimethylphosphine)zirconium(II) with 1,3-Diynes. Organometallics, 1999, 18, 4234-4236.	2.3	18
83	ansa-Bis(1-boratabenzene) Zirconium(IV) Complexes with Short Carbon Bridges to Boron. Organometallics, 2003, 22, 203-206.	2.3	18
84	Design of 2D Porous Coordination Polymers Based on Metallacrown Units. Chemistry - A European Journal, 2016, 22, 6482-6486.	3.3	18
85	Iodinated Metallacrowns: Toward Combined Bimodal Nearâ€Infrared and Xâ€Ray Contrast Imaging Agents. Chemistry - A European Journal, 2020, 26, 1274-1277.	3.3	18
86	The First Stibepine: Synthesis and Structure ofSb-Chlorobenzo[d]stibepine. Angewandte Chemie International Edition in English, 1992, 31, 1642-1643.	4.4	17
87	Coordination Chemistry of a Tripodal S2ON Ligand:Â Syntheses, Structures, and Reactivity of the Molybdenum(VI) and Nickel(II) Complexes of Bis(2-mercaptoethyl)-2-amino-4-methylphenol (H3btap) and Comparison to VVO(btap). Inorganic Chemistry, 1998, 37, 5851-5855.	4.0	16
88	Visible, Near-Infrared, and Dual-Range Luminescence Spanning the 4f Series Sensitized by a Gallium(III)/Lanthanide(III) Metallacrown Structure. Journal of Physical Chemistry A, 2020, 124, 10550-10564.	2.5	16
89	Germylene Reactions with Quinones Shed Light on Germylene Phenone Equilibria. Organometallics, 2003, 22, 3222-3229.	2.3	14
90	GermylenÃ¼bergangsmetallkomplexe als Hydrierkatalysatoren: Synthese eines Bis(amino)germans. Angewandte Chemie, 1997, 109, 516-518.	2.0	13

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91	1,2-Benzothiaborolide:Â A New Heteroaromatic Analogue of Indenyl. Organometallics, 2000, 19, 4681-4683.	2.3	13
92	Isolation and Characterization of Single and Sulfide-Bridged Double [4Fe-4S] Cubane Clusters with 4-Pyridinethiolato Ligands. European Journal of Inorganic Chemistry, 2013, 2013, 5253-5264.	2.0	13
93	Exploring Two Reactions of Ketones with Ge[CH(SiMe3)2]2:Â CH and OH Insertion. Organometallics, 2003, 22, 5054-5062.	2.3	12
94	Disruption of the La(III)[15-Metallacrown-5] Cavity through Bithiophene Dicarboxylate Inclusion. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2010, 65, 263-s314.	0.7	12
95	Aromatische Galliumheterocyclen: die Synthese des ersten Gallatabenzols. Angewandte Chemie, 1995, 107, 1479-1481.	2.0	11
96	Sequential Insertion of Formaldehyde and Carbon Monoxide into a Sulfide-Bridged Pdâ^'Ge Bond Followed by Reductive Elimination To Form a [1,3,2]Oxathiagermolan-4-one. Organometallics, 2004, 23, 2370-2375.	2.3	11
97	Oxidatively Induced Arylâ€“CF₃ Coupling at Diphosphine Nickel Complexes. Organometallics, 2020, 39, 3-7.	2.3	11
98	Peculiarities of crystal structures and photophysical properties of Ga^{III}/Ln^{III} metallacrowns with a non-planar [12-MC-4] core. Inorganic Chemistry Frontiers, 2020, 7, 1553-1563.	6.0	11
99	Distortion of the [FeNO]₂ Core in Flavodiiron Nitric Oxide Reductase Models Inhibits Nâ€“N Bond Formation and Promotes Formation of Unusual Dinitrosyl Iron Complexes: Implications for Catalysis and Reactivity. Journal of the American Chemical Society, 2022, 144, 3804-3820.	13.7	10
100	Molecular structure of and exchange coupling in a bis(semiquinone) complex. Chemical Communications, 2001, , 93-94.	4.1	8
101	Solid-State Insight Into the Action of a Pharmaceutical Solvate: Structural, Thermal, and Dissolution Analysis of Indinavir Sulfate Ethanolate. Journal of Pharmaceutical Sciences, 2018, 107, 2731-2734.	3.3	8
102	Germylene-Induced Hydrogenation of Benzophenone. Organometallics, 2003, 22, 4613-4615.	2.3	7
103	Synthesis of and structureâ€“property relationships in zinc complexes of bisâ€metaphenylene semiquinone biradical species. Journal of Physical Organic Chemistry, 2012, 25, 314-321.	1.9	7
104	Magnetic properties of two Gd^{III}Fe^{III}₄ metallacrowns and strategies for optimizing the magnetocaloric effect of this topology. Inorganic Chemistry Frontiers, 2021, 8, 2611-2623.	6.0	6
105	Three-Dimensional Porous Architectures Based on MnII/III Three-Blade Paddle Wheel Metallacryptates. Crystal Growth and Design, 2019, 19, 1954-1964.	3.0	4
106	Tuning the photophysical properties of lanthanide(<scp>iii</scp>)/zinc(<scp>ii</scp>) â€˜encapsulated sandwichâ€™ metallacrowns emitting in the near-infrared range. Chemical Science, 2022, 13, 2919-2931.	7.4	4
107	Ï€-Stacking in Conjugated Polymers and Oligomers: A Structural and Spectroscopic Study. Materials Research Society Symposia Proceedings, 1998, 548, 285.	0.1	3
108	Syntheses of New Olefin Polymerization Catalysts Based on Zirconium Complexes of Organoboron Compounds. ACS Symposium Series, 2003, , 14-25.	0.5	3

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109	The Synthesis of Brominated Tetrafluoro[2.2]paracyclophanes. European Journal of Organic Chemistry, 2006, 2006, 5499-5504.	2.4	3
110	Aryl Halide Radical Clocks as Probes of Stannylene/Aryl Halide Câ€“H Activation Rates. Journal of Inorganic and Organometallic Polymers and Materials, 2014, 24, 250-257.	3.7	3
111	Bis(dimethylformamide)pentakis(Î¼-N,2-dioxidobenzene-1-carboximidato)tetrakis(1-methylimidazole)di-Î¼-propionato-pentan (1/0.24/1.36). Acta Crystallographica Section E: Structure Reports Online, 2013, 69, m483-m484.	0.2	3
112	Synthesis and characterization of a model complex for flavodiiron NO reductases that stabilizes a diiron mononitrosyl complex. Journal of Inorganic Biochemistry, 2022, 229, 111723.	3.5	3
113	Modulation of H⁺/H^{â^'} exchange in iridium-hydride 2-hydroxypyridine complexes by remote Lewis acids. Chemical Communications, 2021, 57, 11705-11708.	4.1	2
114	Das erste Stibepin: Synthese und Struktur von Sbâ€Chlorbenzo[d]stibepin. Angewandte Chemie, 1992, 104, 1669-1670.	2.0	1
115	1,1â€²-Diheteroferrocenes of the Group 15 Elements. Phosphorus, Sulfur and Silicon and the Related Elements, 1994, 93, 297-300.	1.6	0
116	Effects of Î¦-Stacking on the Absorption and Emission of Light by Conjugated Polymers and Oligomers. Materials Research Society Symposia Proceedings, 1999, 598, .	0.1	0
117	Effects of Î¦-Stacking on the Absorption and Emission of Light by Conjugated Polymers and Oligomers. Materials Research Society Symposia Proceedings, 1999, 598, 1.	0.1	0