

Edwin Otten

List of Publications by Year in descending order

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126907

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docs citations

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3248
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#	ARTICLE	IF	CITATIONS
1	Reversible On/Off Switching of Lactide Cyclopolymerization with a Redox-Active Formazanate Ligand. ACS Catalysis, 2022, 12, 4125-4130.	11.2	12
2	Blatter Radicals as Bipolar Materials for Symmetrical Redox-Flow Batteries. Journal of the American Chemical Society, 2022, 144, 5051-5058.	13.7	32
3	Widening the Window of Spin-Crossover Temperatures in Bis(formazanate)iron(II) Complexes via Steric and Noncovalent Interactions. Inorganic Chemistry, 2021, 60, 2045-2055.	4.0	19
4	Three-Coordinate Zinc Methyl Complexes with Sterically Demanding Formazanate Ligands. Organometallics, 2021, 40, 63-71.	2.3	5
5	Three-State Switching of an Anthracene Extended Bis-thioxanthylidene with a Highly Stable Diradical State. Journal of the American Chemical Society, 2021, 143, 18020-18028.	13.7	15
6	Manganese(I)-Catalyzed H ⁺ -P Bond Activation via Metal ⁺ -Ligand Cooperation. Journal of the American Chemical Society, 2021, 143, 20071-20076.	13.7	46
7	Formazanate coordination compounds: synthesis, reactivity, and applications. Chemical Society Reviews, 2020, 49, 85-113.	38.1	62
8	Electronic Control of Spin-Crossover Properties in Four-Coordinate Bis(formazanate) Iron(II) Complexes. Journal of the American Chemical Society, 2020, 142, 20170-20181.	13.7	27
9	Catalytic Conversion of Nitriles by Metal Pincer Complexes. Topics in Organometallic Chemistry, 2020, , 321.	0.7	0
10	Cation effects on dynamics of ligand-benzylated formazanate boron and aluminium complexes. Dalton Transactions, 2020, 49, 9094-9098.	3.3	2
11	Ruthenium Complexes with PNN Pincer Ligands Based on (Chiral) Pyrrolidines: Synthesis, Structure, and Dynamic Stereochemistry. Organometallics, 2020, 39, 544-555.	2.3	7
12	Structure and bonding in reduced boron and aluminium complexes with formazanate ligands. Dalton Transactions, 2019, 48, 13981-13988.	3.3	7
13	Highly Selective Single-Component Formazanate Ferrate(II) Catalysts for the Conversion of CO ₂ into Cyclic Carbonates. ChemSusChem, 2019, 12, 3635-3641.	6.8	33
14	Aluminum Complexes with Redox-Active Formazanate Ligand: Synthesis, Characterization, and Reduction Chemistry. Inorganic Chemistry, 2019, 58, 6344-6355.	4.0	21
15	A chiral self-sorting photoresponsive coordination cage based on overcrowded alkenes. Beilstein Journal of Organic Chemistry, 2019, 15, 2767-2773.	2.2	36
16	Hydration of nitriles using a metal ⁺ -ligand cooperative ruthenium pincer catalyst. Chemical Science, 2019, 10, 10647-10652.	7.4	54
17	Oxa ⁺ -Michael Addition to $\hat{I}\pm, \hat{I}^2$ -Unsaturated Nitriles: An Expedient Route to \hat{I}^3 -Amino Alcohols and Derivatives. ChemCatChem, 2018, 10, 2868-2872.	3.7	14
18	Reactivity of Two-Electron-Reduced Boron Formazanate Compounds with Electrophiles: Facile N ⁺ -H/N ⁺ -C Bond Homolysis Due to the Formation of Stable Ligand Radicals. Inorganic Chemistry, 2018, 57, 9720-9727.	4.0	14

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19	Lewis Acid Catalyzed Conversion of 5-Hydroxymethylfurfural to 1,2,4-Benzenetriol, an Overlooked Biobased Compound. ACS Sustainable Chemistry and Engineering, 2018, 6, 3419-3425.	6.7	35
20	Central-to-Helical-to-Axial-to-Central Transfer of Chirality with a Photoresponsive Catalyst. Journal of the American Chemical Society, 2018, 140, 17278-17289.	13.7	57
21	Palladium alkyl complexes with a formazanate ligand: synthesis, structure and reactivity. Dalton Transactions, 2018, 47, 14445-14451.	3.3	7
22	Desymmetrization of <i>meso</i> -Dibromocycloalkenes through Copper(I)-Catalyzed Asymmetric Allylic Substitution with Organolithium Reagents. Journal of the American Chemical Society, 2018, 140, 7052-7055.	13.7	26
23	Ferrate(Fe^{II}) complexes with redox-active formazanate ligands. Dalton Transactions, 2018, 47, 8817-8823.	3.3	20
24	Copper-Catalyzed Enantioselective Alkylation of Enolizable Ketimines with Organomagnesium Reagents. Angewandte Chemie - International Edition, 2017, 56, 3041-3044.	13.8	21
25	Arylazoindazole Photoswitches: Facile Synthesis and Functionalization via $\text{S}_{\text{N}}\text{Ar}$ Substitution. Journal of the American Chemical Society, 2017, 139, 3328-3331.	13.7	50
26	Copper-Catalyzed Enantioselective Alkylation of Enolizable Ketimines with Organomagnesium Reagents. Angewandte Chemie, 2017, 129, 3087-3090.	2.0	8
27	Asymmetric Synthesis of Second-Generation Light-Driven Molecular Motors. Journal of Organic Chemistry, 2017, 82, 5027-5033.	3.2	14
28	Third-Generation Light-Driven Symmetric Molecular Motors. Journal of the American Chemical Society, 2017, 139, 9650-9661.	13.7	54
29	Locked synchronous rotor motion in a molecular motor. Science, 2017, 356, 964-968.	12.6	114
30	Switching Pathways for Reversible Ligand Photodissociation in Ru(II) Polypyridyl Complexes with Steric Effects. Inorganic Chemistry, 2017, 56, 900-907.	4.0	8
31	Stable, crystalline boron complexes with mono-, di- and trianionic formazanate ligands. Chemical Communications, 2017, 53, 513-516.	4.1	34
32	Palladium-Catalyzed, <i>tert</i> -Butyllithium-Mediated Dimerization of Aryl Halides and Its Application in the Atropselective Total Synthesis of Mastigophorene...A. Angewandte Chemie - International Edition, 2016, 55, 3620-3624.	13.8	47
33	Catalytic enantioselective addition of Grignard reagents to aromatic silyl ketimines. Nature Communications, 2016, 7, 13780.	12.8	23
34	Spin-Crossover in a Pseudo-tetrahedral Bis(formazanate) Iron Complex. Journal of the American Chemical Society, 2016, 138, 5503-5506.	13.7	63
35	Boron difluorides with formazanate ligands: redox-switchable fluorescent dyes with large stokes shifts. Dalton Transactions, 2016, 45, 9477-9484.	3.3	61
36	Formazanate boron difluoride dyes: discrepancies between TD-DFT and wavefunction descriptions. Journal of Molecular Modeling, 2016, 22, 263.	1.8	7

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37	Metalâ€‘ligand cooperative activation of nitriles by a ruthenium complex with a de-aromatized PNN pincer ligand. Dalton Transactions, 2016, 45, 16033-16039.	3.3	27
38	Stereoselective Synthesis of 1-Tuberculosinyl Adenosine; a Virulence Factor of <i>Mycobacterium tuberculosis</i> . Journal of Organic Chemistry, 2016, 81, 6686-6696.	3.2	20
39	A chemically powered unidirectional rotary molecular motor based on a palladium redox cycle. Nature Chemistry, 2016, 8, 860-866.	13.6	142
40	Palladiumâ€‘Catalyzed, <i>tert</i> -Butyllithiumâ€‘Mediated Dimerization of Aryl Halides and Its Application in the Atropselective Total Synthesis of Mastigophoreneâ€‘...A. Angewandte Chemie, 2016, 128, 3684-3688.	2.0	16
41	Intramolecular Hydride Transfer Reactions in (Formazanate)Boron Dihydride Complexes. Organometallics, 2016, 35, 534-542.	2.3	18
42	Innentitelbild: Catalytic Asymmetric Synthesis of Phosphine Boronates (Angew. Chem. 27/2015). Angewandte Chemie, 2015, 127, 7832-7832.	2.0	0
43	Catalytic Asymmetric Synthesis of Phosphine Boronates. Angewandte Chemie, 2015, 127, 7978-7982.	2.0	10
44	Dynamic Ligand Reactivity in a Rhodium Pincer Complex. Chemistry - A European Journal, 2015, 21, 12683-12693.	3.3	35
45	Dynamic Ligand Reactivity in a Rhodium Pincer Complex. Chemistry - A European Journal, 2015, 21, 12533-12533.	3.3	0
46	A Metalâ€‘Ligand Cooperative Pathway for Intermolecular Oxaâ€‘Michael Additions to Unsaturated Nitriles. Angewandte Chemie - International Edition, 2015, 54, 4236-4240.	13.8	48
47	Catalytic Asymmetric Synthesis of Phosphine Boronates. Angewandte Chemie - International Edition, 2015, 54, 7867-7871.	13.8	41
48	Reduction of (Formazanate)boron Difluoride Provides Evidence for an <i>N</i> -Heterocyclic B(l) Carbenoid Intermediate. Inorganic Chemistry, 2015, 54, 8656-8664.	4.0	42
49	Formazanate Ligands as Structurally Versatile, Redox-Active Analogues of $\hat{\text{I}}^2$ -Diketiminates in Zinc Chemistry. Inorganic Chemistry, 2015, 54, 379-388.	4.0	52
50	An â€‘Ingredientsâ€‘ Approach to Functional Selfâ€‘Synthesizing Materials: A Metalâ€‘Ionâ€‘Selective, Multiâ€‘Responsive, Selfâ€‘Assembled Hydrogel. Chemistry - A European Journal, 2014, 20, 15709-15714.	3.3	42
51	Alkene Isomerisation Catalysed by a Ruthenium PNN Pincer Complex. Chemistry - A European Journal, 2014, 20, 15434-15442.	3.3	39
52	The Formazanate Ligand as an Electron Reservoir: Bis(Formazanate) Zinc Complexes Isolated in Three Redox States. Angewandte Chemie - International Edition, 2014, 53, 4118-4122.	13.8	92
53	Consecutive dynamic resolutions of phosphine oxides. Chemical Science, 2014, 5, 1322.	7.4	57
54	Alkali metal salts of formazanate ligands: diverse coordination modes as a result of the nitrogen-rich [NNCNN] ligand backbone. Dalton Transactions, 2014, 43, 18035-18041.	3.3	35

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55	Synthesis and ligand-based reduction chemistry of boron difluoride complexes with redox-active formazanate ligands. <i>Chemical Communications</i> , 2014, 50, 7431-7433.	4.1	89
56	Asymmetric synthesis of N,O-heterocycles via enantioselective iridium-catalysed intramolecular allylic amidation. <i>Chemical Science</i> , 2014, 5, 4216-4220.	7.4	27
57	New synthetic pathways to the preparation of near-blue emitting heteroleptic Ir(III)N6 coordinated compounds with microsecond lifetimes. <i>Chemical Communications</i> , 2014, 50, 6461-6463.	4.1	13
58	Pyridyl-1,2,4-triazole diphenyl boron complexes as efficient tuneable blue emitters. <i>Dalton Transactions</i> , 2014, 43, 17740-17745.	3.3	10
59	Dual stereocontrol over the Henry reaction using a light- and heat-triggered organocatalyst. <i>Chemical Communications</i> , 2014, 50, 7773.	4.1	90
60	Innen-Äußertitelbild: The Formazanate Ligand as an Electron Reservoir: Bis(Formazanate) Zinc Complexes Isolated in Three Redox States (<i>Angew. Chem.</i> 16/2014). <i>Angewandte Chemie</i> , 2014, 126, 4335-4335.	2.0	0
61	ansa-Cyclopentadienyl-Arene Tantalum Complexes: Structure and Reactivity of Neutral, Cationic, and Dicationic Derivatives. <i>Organometallics</i> , 2012, 31, 6071-6079.	2.3	3
62	Frustrated Lewis Pair Behavior of Intermolecular Amine/B(C ₆ F ₅) ₃ Pairs. <i>Organometallics</i> , 2012, 31, 2367-2378.	2.3	133
63	The synthesis and exchange chemistry of frustrated Lewis pair nitrous oxide complexes. <i>Chemical Science</i> , 2011, 2, 170-176.	7.4	163
64	Ni ^{II} -B Interactions in Nickel Phosphinoalkynylborane Complexes. <i>Chemistry - A European Journal</i> , 2010, 16, 2040-2044.	3.3	27
65	Reversible Metal-Free Carbon Dioxide Binding by Frustrated Lewis Pairs. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 6643-6646.	13.8	680
66	Bridging Binding Modes of Phosphine-Stabilized Nitrous Oxide to Zn(C ₆ F ₅) ₂ . <i>Angewandte Chemie - International Edition</i> , 2009, 48, 9709-9712.	13.8	60
67	Cover Picture: Reversible Metal-Free Carbon Dioxide Binding by Frustrated Lewis Pairs (<i>Angew. Chem.</i>) Tj ETQq1 1 0.784314 rgBT /C 13.8 1	13.8	1
68	Stabilizing Zr and Ti Cations by Interaction With a Ferrocenyl Fragment. <i>Journal of the American Chemical Society</i> , 2009, 131, 15610-15611.	13.7	18
69	Complexation of Nitrous Oxide by Frustrated Lewis Pairs. <i>Journal of the American Chemical Society</i> , 2009, 131, 9918-9919.	13.7	270
70	Versatile Coordination of Cyclopentadienyl-Arene Ligands and Its Role in Titanium-Catalyzed Ethylene Trimerization. <i>Journal of the American Chemical Society</i> , 2009, 131, 5298-5312.	13.7	58
71	Structure and Reactivity of the η^2 -Agostic [<i>ansa</i> -Cp-arene]Ta(ⁿ Pr) Cation: Ambivalent Behavior Induced by Intramolecular Arene Coordination. <i>Journal of the American Chemical Society</i> , 2007, 129, 10100-10101.	13.7	22
72	Mono(amidinate) Yttrium Alkyl Complexes: The Effect of Ligand Variation on Ethene Polymerization Catalysis. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2006, 632, 1950-1952.	1.2	34

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73	Zirconium Bisamidinate Complexes with Sterically Demanding Ligands: Structure, Solution Dynamics, and Reactivity. <i>Organometallics</i> , 2005, 24, 4374-4386.	2.3	29
74	Selective α -Deuteration of Cinnamitriles using D_2O as Deuterium Source. <i>Advanced Synthesis and Catalysis</i> , 0, , .	4.3	1