

Edwin Otten

List of Publications by Year in descending order

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74
papers

3,799
citations

126907

33
h-index

128289

60
g-index

87
all docs

87
docs citations

87
times ranked

3248
citing authors

#	ARTICLE	IF	CITATIONS
1	Reversible Metal-Free Carbon Dioxide Binding by Frustrated Lewis Pairs. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 6643-6646.	13.8	680
2	Complexation of Nitrous Oxide by Frustrated Lewis Pairs. <i>Journal of the American Chemical Society</i> , 2009, 131, 9918-9919.	13.7	270
3	The synthesis and exchange chemistry of frustrated Lewis pair-nitrous oxide complexes. <i>Chemical Science</i> , 2011, 2, 170-176.	7.4	163
4	A chemically powered unidirectional rotary molecular motor based on a palladium redox cycle. <i>Nature Chemistry</i> , 2016, 8, 860-866.	13.6	142
5	Frustrated Lewis Pair Behavior of Intermolecular Amine/B(C ₆ F ₅) ₃ Pairs. <i>Organometallics</i> , 2012, 31, 2367-2378.	2.3	133
6	Locked synchronous rotor motion in a molecular motor. <i>Science</i> , 2017, 356, 964-968.	12.6	114
7	The Formazanate Ligand as an Electron Reservoir: Bis(Formazanate) Zinc Complexes Isolated in Three Redox States. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 4118-4122.	13.8	92
8	Dual stereocontrol over the Henry reaction using a light- and heat-triggered organocatalyst. <i>Chemical Communications</i> , 2014, 50, 7773.	4.1	90
9	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
10	Spin-Crossover in a Pseudo-tetrahedral Bis(formazanate) Iron Complex. <i>Journal of the American Chemical Society</i> , 2016, 138, 5503-5506.	13.7	63
11	Formazanate coordination compounds: synthesis, reactivity, and applications. <i>Chemical Society Reviews</i> , 2020, 49, 85-113.	38.1	62
12	Boron difluorides with formazanate ligands: redox-switchable fluorescent dyes with large Stokes shifts. <i>Dalton Transactions</i> , 2016, 45, 9477-9484.	3.3	61
13	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
14	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
15	Consecutive dynamic resolutions of phosphine oxides. <i>Chemical Science</i> , 2014, 5, 1322.	7.4	57
16	Central-to-Helical-to-Axial-to-Central Transfer of Chirality with a Photoresponsive Catalyst. <i>Journal of the American Chemical Society</i> , 2018, 140, 17278-17289.	13.7	57
17	Third-Generation Light-Driven Symmetric Molecular Motors. <i>Journal of the American Chemical Society</i> , 2017, 139, 9650-9661.	13.7	54
18	Hydration of nitriles using a metal-free ligand cooperative ruthenium pincer catalyst. <i>Chemical Science</i> , 2019, 10, 10647-10652.	7.4	54

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19	Formazanate Ligands as Structurally Versatile, Redox-Active Analogues of $\hat{\text{I}}^2$ -Diketiminates in Zinc Chemistry. <i>Inorganic Chemistry</i> , 2015, 54, 379-388.	4.0	52
20	Arylazaindazole Photoswitches: Facile Synthesis and Functionalization via $\text{S}<\text{N}>\text{Ar}$ Substitution. <i>Journal of the American Chemical Society</i> , 2017, 139, 3328-3331.	13.7	50
21	A Metal-Ligand Cooperative Pathway for Intermolecular Oxa-Michael Additions to Unsaturated Nitriles. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 4236-4240.	13.8	48
22	Palladium-Catalyzed, <i>tert</i> -Butyllithium-Mediated Dimerization of Aryl Halides and Its Application in the Atropselective Total Synthesis of Mastigophorene...A. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 3620-3624.	13.8	47
23	Manganese(I)-Catalyzed H-P Bond Activation via Metal-Ligand Cooperation. <i>Journal of the American Chemical Society</i> , 2021, 143, 20071-20076.	13.7	46
24	An Ingredients-Approach to Functional Self-Synthesizing Materials: A Metal-Non-Selective, Multi-Responsive, Self-Assembled Hydrogel. <i>Chemistry - A European Journal</i> , 2014, 20, 15709-15714.	3.3	42
25	Reduction of (Formazanate)boron Difluoride Provides Evidence for an <i>N</i> -Heterocyclic B(I) Carbenoid Intermediate. <i>Inorganic Chemistry</i> , 2015, 54, 8656-8664.	4.0	42
26	Catalytic Asymmetric Synthesis of Phosphine Boronates. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 7867-7871.	13.8	41
27	Alkene Isomerisation Catalysed by a Ruthenium PNN Pincer Complex. <i>Chemistry - A European Journal</i> , 2014, 20, 15434-15442.	3.3	39
28	A chiral self-sorting photoresponsive coordination cage based on overcrowded alkenes. <i>Beilstein Journal of Organic Chemistry</i> , 2019, 15, 2767-2773.	2.2	36
29	Alkali metal salts of formazanate ligands: diverse coordination modes as a result of the nitrogen-rich [NNCNN] ligand backbone. <i>Dalton Transactions</i> , 2014, 43, 18035-18041.	3.3	35
30	Dynamic Ligand Reactivity in a Rhodium Pincer Complex. <i>Chemistry - A European Journal</i> , 2015, 21, 12683-12693.	3.3	35
31	Lewis Acid Catalyzed Conversion of 5-Hydroxymethylfurfural to 1,2,4-Benzenetriol, an Overlooked Biobased Compound. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 3419-3425.	6.7	35
32	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
33	Stable, crystalline boron complexes with mono-, di- and trianionic formazanate ligands. <i>Chemical Communications</i> , 2017, 53, 513-516.	4.1	34
34	Highly Selective Single-Component Formazanate Ferrate(II) Catalysts for the Conversion of CO ₂ into Cyclic Carbonates. <i>ChemSusChem</i> , 2019, 12, 3635-3641.	6.8	33
35	Blatter Radicals as Bipolar Materials for Symmetrical Redox-Flow Batteries. <i>Journal of the American Chemical Society</i> , 2022, 144, 5051-5058.	13.7	32
36	Zirconium Bisamidinate Complexes with Sterically Demanding Ligands: Structure, Solution Dynamics, and Reactivity. <i>Organometallics</i> , 2005, 24, 4374-4386.	2.3	29

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37	Ni ^{II} -B Interactions in Nickel Phosphinoalkynyl-Borane Complexes. <i>Chemistry - A European Journal</i> , 2010, 16, 2040-2044.	3.3	27
38	Asymmetric synthesis of N,O-heterocycles via enantioselective iridium-catalysed intramolecular allylic amidation. <i>Chemical Science</i> , 2014, 5, 4216-4220.	7.4	27
39	Metal-ligand cooperative activation of nitriles by a ruthenium complex with a de-aromatized PNN pincer ligand. <i>Dalton Transactions</i> , 2016, 45, 16033-16039.	3.3	27
40	Electronic Control of Spin-Crossover Properties in Four-Coordinate Bis(formazanate) Iron(II) Complexes. <i>Journal of the American Chemical Society</i> , 2020, 142, 20170-20181.	13.7	27
41	Desymmetrization of <i>meso</i> -Dibromocycloalkenes through Copper(I)-Catalyzed Asymmetric Allylic Substitution with Organolithium Reagents. <i>Journal of the American Chemical Society</i> , 2018, 140, 7052-7055.	13.7	26
42	Catalytic enantioselective addition of Grignard reagents to aromatic silyl ketimines. <i>Nature Communications</i> , 2016, 7, 13780.	12.8	23
43	Structure and Reactivity of the η^2 -Agostic [<i>ansa</i> -Cp-arene]Ta ⁿ Cation: Ambivalent Behavior Induced by Intramolecular Arene Coordination. <i>Journal of the American Chemical Society</i> , 2007, 129, 10100-10101.	13.7	22
44	Copper-Catalyzed Enantioselective Alkylation of Enolizable Ketimines with Organomagnesium Reagents. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 3041-3044.	13.8	21
45	Aluminum Complexes with Redox-Active Formazanate Ligand: Synthesis, Characterization, and Reduction Chemistry. <i>Inorganic Chemistry</i> , 2019, 58, 6344-6355.	4.0	21
46	Stereoselective Synthesis of 1-Tuberculosinyl Adenosine; a Virulence Factor of <i>Mycobacterium tuberculosis</i> . <i>Journal of Organic Chemistry</i> , 2016, 81, 6686-6696.	3.2	20
47	Ferrate(II) complexes with redox-active formazanate ligands. <i>Dalton Transactions</i> , 2018, 47, 8817-8823.	3.3	20
48	Widening the Window of Spin-Crossover Temperatures in Bis(formazanate)iron(II) Complexes via Steric and Noncovalent Interactions. <i>Inorganic Chemistry</i> , 2021, 60, 2045-2055.	4.0	19
49	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
50	Intramolecular Hydride Transfer Reactions in (Formazanate)Boron Dihydride Complexes. <i>Organometallics</i> , 2016, 35, 534-542.	2.3	18
51	Palladium-Catalyzed, <i>tert</i> -Butyllithium-Mediated Dimerization of Aryl Halides and Its Application in the Asymmetric Total Synthesis of Mastigophorene...A. <i>Angewandte Chemie</i> , 2016, 128, 3684-3688.	2.0	16
52	Three-State Switching of an Anthracene Extended Bis-thioxanthylidene with a Highly Stable Diradical State. <i>Journal of the American Chemical Society</i> , 2021, 143, 18020-18028.	13.7	15
53	Asymmetric Synthesis of Second-Generation Light-Driven Molecular Motors. <i>Journal of Organic Chemistry</i> , 2017, 82, 5027-5033.	3.2	14
54	Oxa-Michael Addition to α,β -Unsaturated Nitriles: An Expedient Route to β -Amino Alcohols and Derivatives. <i>ChemCatChem</i> , 2018, 10, 2868-2872.	3.7	14

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55	Reactivity of Two-Electron-Reduced Boron Formazanate Compounds with Electrophiles: Facile Nâ€“H/Nâ€“C Bond Homolysis Due to the Formation of Stable Ligand Radicals. <i>Inorganic Chemistry</i> , 2018, 57, 9720-9727.	4.0	14
56	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
57	Reversible On/Off Switching of Lactide Cyclopolymerization with a Redox-Active Formazanate Ligand. <i>ACS Catalysis</i> , 2022, 12, 4125-4130.	11.2	12
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	Catalytic Asymmetric Synthesis of Phosphine Boronates. <i>Angewandte Chemie</i> , 2015, 127, 7978-7982.	2.0	10
60	Copperâ€“Catalyzed Enantioselective Alkylation of Enolizable Ketimines with Organomagnesium Reagents. <i>Angewandte Chemie</i> , 2017, 129, 3087-3090.	2.0	8
61	Switching Pathways for Reversible Ligand Photodissociation in Ru(II) Polypyridyl Complexes with Steric Effects. <i>Inorganic Chemistry</i> , 2017, 56, 900-907.	4.0	8
62	Formazanate boron difluoride dyes: discrepancies between TD-DFT and wavefunction descriptions. <i>Journal of Molecular Modeling</i> , 2016, 22, 263.	1.8	7
63	Palladium alkyl complexes with a formazanate ligand: synthesis, structure and reactivity. <i>Dalton Transactions</i> , 2018, 47, 14445-14451.	3.3	7
64	Structure and bonding in reduced boron and aluminium complexes with formazanate ligands. <i>Dalton Transactions</i> , 2019, 48, 13981-13988.	3.3	7
65	Ruthenium Complexes with PNN Pincer Ligands Based on (Chiral) Pyrrolidines: Synthesis, Structure, and Dynamic Stereochemistry. <i>Organometallics</i> , 2020, 39, 544-555.	2.3	7
66	Three-Coordinate Zinc Methyl Complexes with Sterically Demanding Formazanate Ligands. <i>Organometallics</i> , 2021, 40, 63-71.	2.3	5
67	ansa-Cyclopentadienyl-Arene Tantalum Complexes: Structure and Reactivity of Neutral, Cationic, and Dicationic Derivatives. <i>Organometallics</i> , 2012, 31, 6071-6079.	2.3	3
68	Cation effects on dynamics of ligand-benzylated formazanate boron and aluminium complexes. <i>Dalton Transactions</i> , 2020, 49, 9094-9098.	3.3	2
69	Cover Picture: Reversible Metalâ€“Free Carbon Dioxide Binding by Frustrated Lewis Pairs (<i>Angew. Chem.</i>) Tj ETQq1 1 0,784314 rgBT /Cve 13,8 1	10.784314	13.8
70	Selective Î±â€“Deuteration of Cinnamionitriles using D ₂ O as Deuterium Source. <i>Advanced Synthesis and Catalysis</i> , 0, , .	4.3	1
71	InnenrÃ¼cktitelbild: 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
72	Innentitelbild: Catalytic Asymmetric Synthesis of Phosphine Boronates (<i>Angew. Chem.</i> 27/2015). <i>Angewandte Chemie</i> , 2015, 127, 7832-7832.	2.0	0

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73	Dynamic Ligand Reactivity in a Rhodium Pincer Complex. Chemistry - A European Journal, 2015, 21, 12533-12533.	3.3	0
74	Catalytic Conversion of Nitriles by Metal Pincer Complexes. Topics in Organometallic Chemistry, 2020, , 321.	0.7	0