

Dominik Munz

List of Publications by Year in descending order

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69
papers

2,096
citations

257357

24
h-index

254106

43
g-index

74
all docs

74
docs citations

74
times ranked

1808
citing authors

#	ARTICLE	IF	CITATIONS
1	A Singlet Phosphinidene Stable at Room Temperature. <i>CheM</i> , 2016, 1, 147-153.	5.8	255
2	Pushing Electrons – Which Carbene Ligand for Which Application?. <i>Organometallics</i> , 2018, 37, 275-289.	1.1	199
3	Synthesis of Hemilabile Cyclic (Alkyl)(amino)carbenes (CAACs) and Applications in Organometallic Chemistry. <i>Journal of the American Chemical Society</i> , 2016, 138, 7884-7887.	6.6	116
4	Unconventional singlet fission materials. <i>Chemical Society Reviews</i> , 2021, 50, 3485-3518.	18.7	97
5	Alkane C-H Functionalization and Oxidation with Molecular Oxygen. <i>Inorganic Chemistry</i> , 2015, 54, 5043-5052.	1.9	87
6	Modular Approach to Kekulé Diradicaloids Derived from Cyclic (Alkyl)(amino)carbenes. <i>Journal of the American Chemical Society</i> , 2018, 140, 2546-2554.	6.6	77
7	NHC-CAAC Heterodimers with Three Stable Oxidation States. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 12886-12890.	7.2	68
8	Methane CH Activation by Palladium Complexes with Chelating Bis(NHC) Ligands: A DFT Study. <i>Organometallics</i> , 2013, 32, 3469-3480.	1.1	66
9	Carbene derived diradicaloids – building blocks for singlet fission?. <i>Chemical Science</i> , 2018, 9, 6107-6117.	3.7	66
10	Propane Activation by Palladium Complexes with Chelating Bis(NHC) Ligands and Aerobic Cooxidation. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 2485-2488.	7.2	58
11	Proton or Metal? The H/D Exchange of Arenes in Acidic Solvents. <i>ACS Catalysis</i> , 2015, 5, 769-775.	5.5	54
12	Selective Monooxidation of Light Alkanes Using Chloride and Iodate. <i>Journal of the American Chemical Society</i> , 2014, 136, 8393-8401.	6.6	53
13	Cobalt-Catalyzed Oxidation of Methane to Methyl Trifluoroacetate by Dioxygen. <i>European Journal of Inorganic Chemistry</i> , 2013, 2013, 3659-3663.	1.0	50
14	Singlet Fission in Carbene-Derived Diradicaloids. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 7906-7914.	7.2	46
15	An Isolable Terminal Imido Complex of Palladium and Catalytic Implications. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 16228-16232.	7.2	37
16	On the Mechanism of the Palladium Bis(NHC) Complex Catalyzed CH Functionalization of Propane: Experiment and DFT Calculations. <i>Chemistry - A European Journal</i> , 2014, 20, 14872-14879.	1.7	36
17	Reversible Activation and Transfer of White Phosphorus by Silyl-Stannylene. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 3519-3523.	7.2	35
18	Aromaticity and sterics control whether a cationic olefin radical is resistant to disproportionation. <i>Chemical Science</i> , 2020, 11, 4138-4149.	3.7	29

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19	Terminal Imido Complexes of the Groups 9â€“11: Electronic Structure and Developments in the Last Decade. <i>European Journal of Inorganic Chemistry</i> , 2021, 2021, 4147-4166.	1.0	29
20	ortho-Phenylene bridged palladium bis-N-heterocyclic carbene complexes: synthesis, structure and catalysis. <i>Dalton Transactions</i> , 2013, 42, 7297.	1.6	28
21	Aerobic Epoxidation of Olefin by Platinum Catalysts Supported on Mesoporous Silica Nanoparticles. <i>ACS Catalysis</i> , 2016, 6, 4584-4593.	5.5	28
22	Reactions of Alkynes with Quasi-Linear 3d Metal(I) Silylamides of Chromium to Cobalt: A Comparative Study. <i>Inorganic Chemistry</i> , 2020, 59, 9521-9537.	1.9	27
23	Oligoether substituted bis-NHC palladium and platinum complexes for aqueous Suzukiâ€“Miyaura coupling and hydrosilylation. <i>Journal of Organometallic Chemistry</i> , 2015, 794, 330-335.	0.8	26
24	A Terminal Iron Nitrilimine Complex: Accessing the Terminal Nitride through Diazo Nâ”N Bond Cleavage. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 18547-18551.	7.2	26
25	Bright luminescent lithium and magnesium carbene complexes. <i>Chemical Science</i> , 2021, 12, 7401-7410.	3.7	26
26	Oxidative Addition of Water, Alcohols, and Amines in Palladium Catalysis. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 21088-21095.	7.2	25
27	Charge frustration in ligand design and functional group transfer. <i>Nature Reviews Chemistry</i> , 2021, 5, 422-439.	13.8	25
28	How to tame a palladium terminal oxo. <i>Chemical Science</i> , 2018, 9, 1155-1167.	3.7	24
29	NHCâ€“CAAC Heterodimers with Three Stable Oxidation States. <i>Angewandte Chemie</i> , 2016, 128, 13078-13082.	1.6	23
30	Partial oxidation of light alkanes by periodate and chloride salts. <i>Dalton Transactions</i> , 2015, 44, 5294-5298.	1.6	21
31	A Ferroceneâ€“Based Dicationic Iron(IV) Carbonyl Complex. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 14597-14601.	7.2	21
32	A Pair of Cobalt(III/IV) Terminal Imido Complexes. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 16480-16486.	7.2	18
33	Methoxyaryl substituted palladium bis-NHC complexes â€“ Synthesis and electronic effects. <i>Inorganica Chimica Acta</i> , 2012, 392, 204-210.	1.2	17
34	A Zwitterionic Heterobimetallic Goldâ€“Iron Complex Supported by Bis(<i>N</i> -Heterocyclic) Tj ETQq0 0 0 rgBT /Overlock_10 Tf 50 1.	7.2	17
35	Mechanism and Regioselectivity of the Osmium-Catalyzed Aminohydroxylation of Olefins. <i>Journal of Organic Chemistry</i> , 2010, 75, 1491-1497.	1.7	16
36	Controlling MÃ¶bius-Type Helicity and the Excited-State Properties of Cumulenes with Carbenes. <i>Journal of Physical Chemistry A</i> , 2020, 124, 10100-10110.	1.1	16

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37	Singlet Fission in Carbene-Derived Diradicaloids. <i>Angewandte Chemie</i> , 2020, 132, 7980-7988.	1.6	15
38	Between imide, imidyl and nitrene – an imido iron complex in two oxidation states. <i>Chemical Science</i> , 2022, 13, 7907-7913.	3.7	15
39	Catalytic Hydrocarbon Oxidation by Palladium-bis-NHC-Complexes. <i>Topics in Catalysis</i> , 2014, 57, 1372-1376.	1.3	14
40	How to tame a palladium terminal imido. <i>Journal of Organometallic Chemistry</i> , 2018, 864, 26-36.	0.8	14
41	Werner-Type Complexes of Uranium(III) and (IV). <i>Inorganic Chemistry</i> , 2020, 59, 2443-2449.	1.9	14
42	Palladium Terminal Imido Complexes with Nitrene Character. <i>Journal of the American Chemical Society</i> , 2022, 144, 8897-8901.	6.6	14
43	An Iron Pincer Complex in Four Oxidation States. <i>Inorganic Chemistry</i> , 2020, 59, 5632-5645.	1.9	13
44	Carbon Dioxide Activation by a Palladium Terminal Imido Complex. <i>Australian Journal of Chemistry</i> , 2019, 72, 900.	0.5	12
45	Cobalt and Iron Stabilized Ketyl, Ketiminyl and Aldiminyl Radical Anions. <i>Chemistry - A European Journal</i> , 2021, 27, 16760-16767.	1.7	12
46	An Air-Stable Heterobimetallic Si ₂ M ₂ Tetrahedral Cluster. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 5823-5829.	7.2	11
47	A Crystalline Iron Terminal Methylidene. <i>Journal of the American Chemical Society</i> , 2021, 143, 17219-17225.	6.6	11
48	Cobalt Diazo-Compounds: From Nitrilimide to Isocyanamide via a Diazomethanediide Fleeting Intermediate. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 11138-11142.	7.2	10
49	A mesoionic carbene complex of manganese in five oxidation states. <i>Chemical Communications</i> , 2022, 58, 6096-6099.	2.2	10
50	Ein isolierbarer terminaler Imidkomplex des Palladiums und katalytische Implikationen. <i>Angewandte Chemie</i> , 2018, 130, 16463-16467.	1.6	9
51	Mesoionic Carbenes in Low- to High-Valent Vanadium Chemistry. <i>Inorganic Chemistry</i> , 2021, 60, 15421-15434.	1.9	9
52	Molybdenum(VI) bis-imido Complexes of Dipyrromethene Ligands. <i>Inorganic Chemistry</i> , 2020, 59, 9847-9856.	1.9	8
53	Transmetalation from Magnesium – NHCs – Convenient Synthesis of Chelating – Acidic NHC Complexes. <i>Inorganics</i> , 2019, 7, 65.	1.2	6
54	Intense Photoinduced Intervalence Charge Transfer in High-Valent Iron Mixed Phenolate/Carbene Complexes. <i>Chemistry - A European Journal</i> , 2022, 28, .	1.7	6

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55	Ein terminaler Nitriliminkomplex des Eisens: Zugang zum terminalen Nitrid durch Spaltung einer Diazo- π -Bindung. <i>Angewandte Chemie</i> , 2019, 131, 18719-18723.	1.6	5
56	A Zwitterionic Heterobimetallic Gold-Iron Complex Supported by Bis(N-Heterocyclic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 702 Td	1.6	5
57	Wanzlick's equilibrium in tri- and tetraaminoolefins. <i>Organic Chemistry Frontiers</i> , 2021, 8, 6663-6669.	2.3	5
58	Oxidative Addition of Water, Alcohols, and Amines in Palladium Catalysis. <i>Angewandte Chemie</i> , 2020, 132, 21274-21281.	1.6	4
59	A Pair of Cobalt(III/IV) Terminal Imido Complexes. <i>Angewandte Chemie</i> , 2021, 133, 16616-16622.	1.6	4
60	Ir(IV) Sulfoxide-Pincer Complexes by Three-Electron Oxidative Additions of Br_2 and I_2 . Unprecedented Trap-Free Reductive Elimination of I_2 from a formal d^5 Metal. <i>Inorganic Chemistry</i> , 2022, 61, 1236-1248.	1.9	4
61	Cyclic (alkyl)(amino)carbene (CAAC) ligands: Electronic structure and application as chemically- and redox-non-innocent ligands and chromophores. <i>Advances in Organometallic Chemistry</i> , 2022, , 79-132.	0.5	4
62	An Air-Stable Heterobimetallic Si ₂ M ₂ Tetrahedral Cluster. <i>Angewandte Chemie</i> , 2020, 132, 5872-5878.	1.6	3
63	Trendbericht Anorganische Chemie: Bioanorganische und Koordinationschemie der d - und f -Block-Elemente. <i>Nachrichten Aus Der Chemie</i> , 2020, 68, 65-77.	0.0	3
64	Isolating Free Carbenes, their Mixed Dimers and Organic Radicals. <i>Journal of Visualized Experiments</i> , 2019, , .	0.2	2
65	A lead(II) toluene complex. <i>Mendeleev Communications</i> , 2021, 31, 471-474.	0.6	2
66	Cobalt Diazo-Compounds: From Nitrilimide to Isocynoamide via a Diazomethanediide Fleeting Intermediate. <i>Angewandte Chemie</i> , 2021, 133, 11238-11242.	1.6	1
67	Computational Studies on Osmium-Catalyzed Olefin Oxidation Reactions. , 2012, , 143-168.		1
68	Titelbild: Singlet Fission in Carbene-Derived Diradicaloids (<i>Angew. Chem.</i> 20/2020). <i>Angewandte Chemie</i> , 2020, 132, 7697-7697.	1.6	0
69	Taming Elusive Molecules For Energy Conversion, Pollutant Removal, And Generation Of Valuable Resources. , 2018, , .		0