

Sebastian Dechert

List of Publications by Year in descending order

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218592

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docs citations

84
times ranked

2256
citing authors

#	ARTICLE	IF	CITATIONS
1	Polynuclear transition metal complexes of metal-metal-bridging compartmental pyrazolate ligands. <i>Coordination Chemistry Reviews</i> , 2009, 253, 2698-2741.	9.5	208
2	A Double- $\text{S}=\text{O}$ Switching Multistable Fe_{4} Grid Complex with Stepwise Spin-Crossover and Redox Transitions. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 9274-9277.	7.2	138
3	Tetranuclear $\text{Co}_{2}\text{Mn}_{2}$ and $\text{Cu}_{2}\text{Co}_{2}$ Complexes of a Novel Binucleating Pyrazolate Ligand Preorganized for the Self-Assembly of Compact [2 × 2]-Grid Structures. <i>Inorganic Chemistry</i> , 2008, 47, 1576-1585.	1.9	89
4	Mixed-Spin [2 × 2] Fe_{4} Grid Complex Optimized for Quantum Cellular Automata. <i>Inorganic Chemistry</i> , 2013, 52, 13230-13237.	1.9	89
5	A Trinuclear Defect-Grid Iron(II) Spin Crossover Complex with a Large Hysteresis Loop that is Readily Silenced by Solvent Vapor. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 6135-6139.	7.2	79
6	Complete Series of $\{\text{FeNO}\}_{8}$, $\{\text{FeNO}\}_{7}$, and $\{\text{FeNO}\}_{6}$ Complexes Stabilized by a Tetracarbene Macrocyclic. <i>Journal of the American Chemical Society</i> , 2016, 138, 7888-7898.	6.6	69
7	Weakly Coupled Biologically Relevant $\text{Cu}_{2}(\mu_{4}\text{-O})_{2}(\mu_{2}\text{-O})_{2}$ <i>cis</i> -Peroxo Adduct that Binds Side-On to Additional Metal Ions. <i>Journal of the American Chemical Society</i> , 2014, 136, 7428-7434.	6.6	66
8	Spin-State Versatility in a Series of Fe_{4} [2 × 2] Grid Complexes: Effects of Counteranions, Lattice Solvent, and Intramolecular Cooperativity. <i>Inorganic Chemistry</i> , 2016, 55, 2363-2373.	1.9	64
9	Spin Crossover in $\text{Fe(II)}\text{-M(II)}$ Cyanoheterobimetallic Frameworks (M = Ni, Pd, Pt) with 2-Substituted Pyrazines. <i>Inorganic Chemistry</i> , 2016, 55, 4906-4914.	1.9	58
10	Structure Selectivity of Alkaline Periodate Oxidation on Lignocellulose for Facile Isolation of Cellulose Nanocrystals. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 3218-3225.	7.2	50
11	Hidden Non-Innocence in an Expanded Porphyrin: Electronic Structure of the Siamese-Twin Porphyrin's Dicationic Complex in Different Oxidation States. <i>Journal of the American Chemical Society</i> , 2013, 135, 13892-13899.	6.6	48
12	Hydrogen Atom Abstraction Thermodynamics of a $\mu_{4}\text{-1,2-Superxo}$ Dicopper(II) Complex. <i>Journal of the American Chemical Society</i> , 2017, 139, 9831-9834.	6.6	46
13	Oligonuclear Copper Complexes of a Bioinspired Pyrazolate-Bridging Ligand: Synthesis, Structures, and Equilibria in Solution. <i>Inorganic Chemistry</i> , 2007, 46, 4298-4307.	1.9	44
14	A Ferromagnetically Coupled ($S=1$) Peroxodicopper(II) Complex. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 1738-1743.	7.2	42
15	Iron Complexes of a Macrocyclic N-Heterocyclic Carbene/Pyridine Hybrid Ligand. <i>Organometallics</i> , 2015, 34, 2819-2825.	1.1	41
16	Highly Efficient Binuclear Ruthenium Catalyst for Water Oxidation. <i>ChemSusChem</i> , 2015, 8, 1697-1702.	3.6	40
17	Reductive O_{2} Binding at a Dihydride Complex Leading to Redox Interconvertible $\mu_{4}\text{-1,2-Peroxo}$ and $\mu_{4}\text{-1,2-Superxo}$ Dinickel(II) Intermediates. <i>Journal of the American Chemical Society</i> , 2018, 140, 4929-4939.	6.6	40
18	Redox-Induced Single-Molecule Magnetism in Mixed-Valent [2 × 2] Co_{4} Grid Complexes. <i>Inorganic Chemistry</i> , 2016, 55, 4362-4372.	1.9	37

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19	Pairwise H ₂ /D ₂ Exchange and H ₂ Substitution at a Bimetallic Dinickel(II) Complex Featuring Two Terminal Hydrides. <i>Journal of the American Chemical Society</i> , 2017, 139, 16720-16731.	6.6	36
20	Hysteretic Magnetic Bistability Based on a Molecular Azide Switch. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 7111-7114.	7.2	35
21	Proton-Induced, Reversible Interconversion of a μ -1,2-Peroxo and a μ -1,1-Hydroperoxo Dicopper(II) Complex. <i>Journal of the American Chemical Society</i> , 2015, 137, 8002-8005.	6.6	33
22	Reductive Nitric Oxide Coupling at a Dinickel Core: Isolation of a Key <i>cis</i> -Hyponitrite Intermediate en route to N ₂ O Formation. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 1705-1709.	7.2	33
23	Combining Valence-to-Core X-ray Emission and Cu K-edge X-ray Absorption Spectroscopies to Experimentally Assess Oxidation State in Organometallic Cu(I)/(II)/(III) Complexes. <i>Journal of the American Chemical Society</i> , 2022, 144, 2520-2534.	6.6	33
24	Model of the MitoNEET [2Fe ²⁺ S] Cluster Shows Proton Coupled Electron Transfer. <i>Journal of the American Chemical Society</i> , 2017, 139, 701-707.	6.6	30
25	Bis(terdentate) Pyrazole/Pyridine Ligands: Synthesis, Crystal Structures and Magnetic Properties of Bridged Binuclear and Tetranuclear Copper(II) Complexes. <i>European Journal of Inorganic Chemistry</i> , 2009, 2009, 3431-3439.	1.0	27
26	An Adaptable π -Heterocyclic Carbene Macrocyclic Host for Copper in Three Oxidation States. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 5696-5705.	7.2	27
27	Selective Synthesis and Redox Sequence of a Heterobimetallic Nickel/Copper Complex of the Noninnocent Siamese-Twin Porphyrin. <i>Inorganic Chemistry</i> , 2014, 53, 7876-7885.	1.9	25
28	Establishing the Family of Diruthenium Water Oxidation Catalysts Based on the Bis(bipyridyl)pyrazolate Ligand System. <i>Inorganic Chemistry</i> , 2016, 55, 2508-2521.	1.9	23
29	Disproportionation Equilibrium of a μ -Oxodiiron(III) Complex Giving Rise to C-H Activation Reactivity: Structural Snapshot of a Unique Oxoiron(IV) Adduct. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 10855-10858.	7.2	23
30	Backbone Immobilization of the Bis(bipyridyl)pyrazolate Diruthenium Catalyst for Electrochemical Water Oxidation. <i>ACS Catalysis</i> , 2017, 7, 2116-2125.	5.5	22
31	Merging Pincer Motifs and Potential Metal-Metal Cooperativity in Cobalt Dinitrogen Chemistry: Efficient Catalytic Silylation of N ₂ to N(SiMe ₃) ₃ . <i>Angewandte Chemie - International Edition</i> , 2021, 60, 14480-14487.	7.2	22
32	Electrochemical and Photophysical Properties of Ruthenium(II) Complexes Equipped with Sulfurated Bipyridine Ligands. <i>Inorganic Chemistry</i> , 2020, 59, 4972-4984.	1.9	21
33	Structural Flexibility of Carboxylate Bridging Exemplified by a Series of μ -Acetato Dizinc Complexes. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2007, 633, 2178-2186.	0.6	19
34	A μ -Phosphido Diiron Dumbbell in Multiple Oxidation States. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 14349-14356.	7.2	19
35	A Two- π -Pincer Ligand and its Diiron(II) Complex Showing Spin State Switching in Solution through Reversible Ligand Exchange. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 583-587.	7.2	18
36	Spin-State Variations of Iron(III) Complexes with Tetracarbene Macrocycles. <i>Chemistry - A European Journal</i> , 2019, 25, 3918-3929.	1.7	18

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37	Time-Resolved Spectroscopy of Photoinduced Electron Transfer in Dinuclear and Tetranuclear Fe/Co Prussian Blue Analogues. <i>Inorganic Chemistry</i> , 2021, 60, 449-459.	1.9	18
38	Chasing the Achilles™ Heel in Hybrid Systems of Diruthenium Water Oxidation Catalysts Anchored on Indium Tin Oxide: The Stability of the Anchor. <i>ACS Catalysis</i> , 2017, 7, 6235-6244.	5.5	17
39	Reductive Binding and Ligand-Based Redox Transformations of Nitrosobenzene at a Dinickel(II) Core. <i>Inorganic Chemistry</i> , 2019, 58, 5154-5162.	1.9	17
40	Competing H ₂ versus Intramolecular C-H Activation at a Dinuclear Nickel Complex via Metal-Metal Cooperative Oxidative Addition. <i>Journal of the American Chemical Society</i> , 2020, 142, 6717-6728.	6.6	17
41	2,2'-Bipyridine Equipped with a Disulfide/Dithiol Switch for Coupled Two-Electron and Two-Proton Transfer. <i>Chemistry - A European Journal</i> , 2018, 24, 4864-4870.	1.7	15
42	Structurally Characterized μ -1,2-Peroxo/Superoxo Dicopper(II) Pair. <i>Journal of the American Chemical Society</i> , 2021, 143, 10361-10366.	6.6	14
43	Grid Expansion: a Rhombiclike [L ₄ Fe ₂ (Ag ₂) ₂] Complex Containing Ag ₂ Dumbbells at Two Vertices. <i>Inorganic Chemistry</i> , 2012, 51, 4912-4914.	1.9	13
44	Ligand Protonation Triggers H ₂ Release from a Dinickel Dihydride Complex to Give a Doubly π -Shaped Dinickel(I) Metallodiradical. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 1891-1896.	7.2	13
45	A Bioinspired Disulfide/Dithiol Redox Switch in a Rhenium Complex as Proton, H Atom, and Hydride Transfer Reagent. <i>Journal of the American Chemical Society</i> , 2021, 143, 6238-6247.	6.6	13
46	Siamese-Twin Porphyrin Origami: Oxidative Fusing and Folding. <i>Chemistry - A European Journal</i> , 2016, 22, 2307-2316.	1.7	12
47	Water Oxidizing Diruthenium Electrocatalysts Immobilized on Carbon Nanotubes: Effects of the Number and Positioning of Pyrene Anchors. <i>ACS Catalysis</i> , 2020, 10, 10614-10626.	5.5	12
48	Selective Electrocatalytic CO ₂ Reduction to CO by an NHC-Based Organometallic Heme Analogue. <i>ACS Catalysis</i> , 2021, 11, 3257-3267.	5.5	12
49	Modulation of a μ -1,2-Peroxo Dicopper(II) Intermediate by Strong Interaction with Alkali Metal Ions. <i>Journal of the American Chemical Society</i> , 2021, 143, 17751-17760.	6.6	12
50	A Pyrazolate-Bridged Bis(pentadentate) Ligand and Its Dinuclear Ruthenium Complex. <i>European Journal of Inorganic Chemistry</i> , 2015, 2015, 4348-4353.	1.0	11
51	Hexanuclear [Cp*Dy] ₆ single-molecule magnet. <i>Chemical Communications</i> , 2020, 56, 3887-3890.	2.2	11
52	Macrocyclic based dinuclear dysprosium(^{III}) single molecule magnets with local D _{5h} coordination geometry. <i>Dalton Transactions</i> , 2021, 50, 17573-17582.	1.6	11
53	Structure Selectivity of Alkaline Periodate Oxidation on Lignocellulose for Facile Isolation of Cellulose Nanocrystals. <i>Angewandte Chemie</i> , 2020, 132, 3244-3251.	1.6	10
54	Anomeric Stereoauxiliary Cleavage of the C-N Bond of α -Glucosamine for the Preparation of Imidazo[1,5-a]pyridines. <i>Chemistry - A European Journal</i> , 2022, 28, .	1.7	10

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55	Dinuclear Zinc and Cobalt Complexes with Imidazolyl and N-Methylimidazolyl Units and Their Solution Speciation and Redox Properties. <i>European Journal of Inorganic Chemistry</i> , 2015, 2015, 2695-2706.	1.0	9
56	Siamese-Twin Porphyrin Goes Platinum: Group 10 Monometallic, Homobimetallic, and Heterobimetallic Complexes. <i>Inorganic Chemistry</i> , 2020, 59, 7290-7305.	1.9	8
57	Siamese-Twin Porphyrins: Variation of Two meso -Aryl Groups. <i>European Journal of Inorganic Chemistry</i> , 2016, 2016, 4814-4819.	1.0	7
58	Heterometallic Ru ₂ Co ₂ [2 Å ⁻²] Grid with Localized Single Molecule Magnet Behavior. <i>Inorganic Chemistry</i> , 2019, 58, 13337-13345.	1.9	7
59	Reductive Binding of Nitro Substrates at a Masked Dinickel(I) Complex and Proton-Coupled Conversion to Reduced Nitroso Ligands. <i>Inorganic Chemistry</i> , 2020, 59, 14207-14217.	1.9	7
60	Expanding the Family of Pyrazole-Bridged Mixed-Spin and Mixed-Valence Tetranuclear [2 Å ⁻²] Iron Grid Complexes. <i>European Journal of Inorganic Chemistry</i> , 2017, 2017, 4333-4343.	1.0	6
61	Sequential Double Dearomatization of the Pyrazolate-Based -Two-In-One-Pincer Ligand in a Dinuclear Rhodium(I) Complex. <i>European Journal of Inorganic Chemistry</i> , 2019, 2019, 3329-3334.	1.0	6
62	Reductive Nitric Oxide Coupling at a Dinickel Core: Isolation of a Key cis -Hyponitrite Intermediate en route to N ₂ O Formation. <i>Angewandte Chemie</i> , 2019, 131, 1719-1723.	1.6	6
63	An Adaptable -Heterocyclic Carbene Macrocycle Hosting Copper in Three Oxidation States. <i>Angewandte Chemie</i> , 2020, 132, 5745-5754.	1.6	5
64	Improved Synthesis and Detailed Characterization of a Hybrid Pyrazole-TACN Dinucleating Ligand. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2015, 641, 2181-2189.	0.6	4
65	Ligand Protonation Triggers H ₂ Release from a Dinickel Dihydride Complex to Give a Doubly -Shaped Dinickel(I) Metallodiradical. <i>Angewandte Chemie</i> , 2021, 133, 1919-1924.	1.6	4
66	Merging Pincer Motifs and Potential Metal-Metal Cooperativity in Cobalt Dinitrogen Chemistry: Efficient Catalytic Silylation of N ₂ to N(SiMe ₃) ₃ . <i>Angewandte Chemie</i> , 2021, 133, 14601-14608.	1.6	4
67	Di- and Trinuclear Zinc and Cobalt Complexes and Their Reactivity towards Dioxygen. <i>European Journal of Inorganic Chemistry</i> , 2013, 2013, 3689-3698.	1.0	3
68	Reaching across the Divide: How Monometalation of One Binding Pocket Affects the Empty Binding Pocket in a Siamese-Twin Porphyrin Palladium Complex. <i>Inorganic Chemistry</i> , 2017, 56, 2221-2232.	1.9	3
69	Bis(pyrazolato) Bridged Diiron Complexes: Ferromagnetic Coupling in a Mixed-Valent HS ^{II} Fe/LS ^{III} Fe Dinuclear Complex. <i>European Journal of Inorganic Chemistry</i> , 2020, 2020, 4137-4145.	1.0	3
70	Antisymmetric Spin Exchange in a ¹ / ₄ -1,2-Peroxodicopper(II) Complex with an Orthogonal Cu-O-Cu Arrangement and <i>S</i> = 1 Spin Ground State Characterized by THz-EPR. <i>Jacs Au</i> , 2022, 2, 1134-1143.	3.6	3
71	Zinc Complexes of a Bioinspired Binucleating Ligand Platform - Equilibria in Solution and Structures in the Solid State. <i>European Journal of Inorganic Chemistry</i> , 2012, 2012, 4728-4738.	1.0	2
72	Organometallic ¹ / ₄ -Nitridodiiron Complexes in Oxidation States Ranging from (III/III) to (IV/IV). <i>Inorganic Chemistry</i> , 2022, 61, 7153-7164.	1.9	2

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73	Di- and Tetrairon(III) μ_4 -Oxido Complexes of an N3S-Donor Ligand: Catalyst Precursors for Alkene Oxidations. <i>Frontiers in Chemistry</i> , 2019, 7, 97.	1.8	1
74	Measurement of Angstrom to Nanometer Molecular Distances with ^{19}F Nuclear Spins by EPR/ENDOR Spectroscopy. <i>Angewandte Chemie</i> , 2020, 132, 381-387.	1.6	1
75	Crystal structure of high-spin tetraaquabis(2-chloropyrazine- μ_4)iron(II) bis(4-methylbenzenesulfonate). <i>Acta Crystallographica Section E: Crystallographic Communications</i> , 2015, 71, 776-778.	0.2	0
76	Crystal structure of the co-crystal fac-triaquabis(thiocyanato- μ_4)iron(III) μ_3 -2,3-dimethylpyrazine (1/3). <i>Acta Crystallographica Section E: Crystallographic Communications</i> , 2015, 71, 374-376.	0.2	0
77	Cover Feature: Anomeric Stereoauxiliary Cleavage of the C \sim N Bond of α -D-Glucosamine for the Preparation of Imidazo[1,5-a]pyridines (<i>Chem. Eur. J.</i> 29/2022). <i>Chemistry - A European Journal</i> , 2022, 28, .	1.7	0