## Karin Fink

## List of Publications by Year in descending order

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90 3,470 31 56 papers citations h-index 97 97 5693

times ranked

docs citations

all docs

citing authors

#	Article	IF	CITATIONS
1	Development and Application of a Complete Active Space Spinâ€Orbit Configuration Interaction Program Designed for Single Molecule Magnets. ChemPhysChem, 2022, 23, .	2.1	10
2	The Adsorption of Small Molecules on the Copper Paddle-Wheel: Influence of the Multi-Reference Ground State. Molecules, 2022, 27, 912.	3.8	2
3	Asymmetrically Difunctionalized 1,1′â€Ferrocenyl Metalloligands and Their Transition Metal Complexes. European Journal of Inorganic Chemistry, 2022, 2022, .	2.0	1
4	Tuning the Coordination Geometry and Magnetic Relaxation of Co(II) Single-Ion Magnets by Varying the Ligand Substitutions. Crystal Growth and Design, 2021, 21, 1035-1044.	3.0	13
5	Combining wavefunction frozen-density embedding with one-dimensional periodicity. Journal of Chemical Physics, 2021, 154, 104114.	3.0	4
6	Heteroâ€bimetallic Lanthanideâ€Coinage Metal Compounds Featuring Possible Metalâ€Metal Interactions in the Excited State. Chemistry - A European Journal, 2021, 27, 15128-15136.	3.3	12
7	Terminal Ligand and Packing Effects on Slow Relaxation in an Isostructural Set of [Dy(H <sub>2</sub> dapp)X <sub>2</sub> ] <sup>+</sup> Single Molecule Magnets**. Chemistry - A European Journal, 2021, 27, 15086-15095.	<b>3.</b> 3	6
8	Frontispiece: Terminal Ligand and Packing Effects on Slow Relaxation in an Isostructural Set of [Dy(H <sub>2</sub> dapp)X <sub>2</sub> ] <sup>+</sup> Single Molecule Magnets. Chemistry - A European Journal, 2021, 27, .	3.3	0
9	Formation and desorption of nickel hexafluoroacetylacetonate Ni(hfac)2 on a nickel oxide surface in atomic layer etching processes. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2020, 38, .	2.1	12
10	Rational Design of Iron Oxide Binding Peptide Tags. Langmuir, 2019, 35, 8472-8481.	3.5	5
11	Photodissociation of Free Metalloporphyrin Dimer Multianions. Journal of Physical Chemistry A, 2018, 122, 2974-2982.	2.5	8
12	Gas-Phase Ion Chemistry of Metalloporphyrin Anions with Molecular Oxygen: Probing the Influence of the Oxidation and Spin State of the Central Transition Metal by Experiment and Theory. Journal of Physical Chemistry A, 2018, 122, 4357-4365.	2.5	8
13	Experimental characterization and simulation of amino acid and peptide interactions with inorganic materials. Engineering in Life Sciences, 2018, 18, 84-100.	3.6	26
14	Exploiting Synergies in Catalysis and Gas Sensing using Noble Metal‣oaded Oxide Composites. ChemCatChem, 2018, 10, 864-880.	3.7	50
15	Enhanced etching of tin-doped indium oxide due to surface modification by hydrogen ion injection. Japanese Journal of Applied Physics, 2018, 57, 06JC05.	1.5	8
16	Enantiopure Benzamidinate/Cyclooctatetraene Complexes of the Rare-Earth Elements: Synthesis, Structure, and Magnetism. Organometallics, 2018, 37, 3708-3717.	2.3	14
17	Mononuclear and dinuclear heteroleptic Cu(I) complexes based on pyridyl-triazole and DPEPhos with long-lived excited-state lifetimes. Journal of Organometallic Chemistry, 2018, 871, 140-149.	1.8	13
18	Metal Complexes of a Redoxâ€Active [1]Phosphaferrocenophane: Structures, Electrochemistry and Redoxâ€Induced Catalysis. Chemistry - A European Journal, 2017, 23, 7402-7408.	3.3	35

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19	Effects of hydrogen ion irradiation on zinc oxide etching. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2017, 35, .	2.1	13
20	Field-Induced Co(II) Single-Ion Magnets with <i>mer</i> -Directing Ligands but Ambiguous Coordination Geometry. Inorganic Chemistry, 2017, 56, 6056-6066.	4.0	35
21	Binding patterns of homo-peptides on bare magnetic nanoparticles: insights into environmental dependence. Scientific Reports, 2017, 7, 14047.	3.3	25
22	Defects as Color Centers: The Apparent Color of Metal–Organic Frameworks Containing Cu <sup>2+</sup> -Based Paddle-Wheel Units. ACS Applied Materials & Interfaces, 2017, 9, 37463-37467.	8.0	60
23	Toward Onâ€andâ€Off Magnetism: Reversible Electrochemistry to Control Magnetic Phase Transitions in Spinel Ferrites. Advanced Functional Materials, 2016, 26, 7507-7515.	14.9	69
24	Magnetic anisotropy of a Co <sup>II</sup> single ion magnet with distorted trigonal prismatic coordination: theory and experiment. Physical Chemistry Chemical Physics, 2016, 18, 30135-30143.	2.8	56
25	Divergent Coordination Chemistry: Parallel Synthesis of [2×2] Iron(II) Gridâ€Complex Tautoâ€Conformers. Angewandte Chemie - International Edition, 2016, 55, 10881-10885.	13.8	41
26	Carbon incorporation effects and reaction mechanism of FeOCl cathode materials for chloride ion batteries. Scientific Reports, 2016, 6, 19448.	3.3	43
27	Field-Induced Slow Magnetic Relaxation in the Ni(I) Complexes [NiCl(PPh <sub>3</sub> ) <sub>2</sub> ]·C <sub>4</sub> H <sub>8</sub> O and [Ni(N(SiMe <sub>3</sub> ) <sub>2</sub> )(PPh <sub>3</sub> ) <sub>2</sub> ]. Inorganic Chemistry, 2016, 55, 2091-2100.	4.0	73
28	A fascinating multifaceted redox-active chelating ligand: introducing the N,N′-dimethyl-3,3′-biquinoxalinium "methylbiquinoxen―platform. Chemical Science, 2016, 7, 3820-38	28 <sup>7.4</sup>	8
29	Q and Soret Band Photoexcitation of Isolated Palladium Porphyrin Tetraanions Leads to Delayed Emission of Nonthermal Electrons over Microsecond Time Scales. Journal of Physical Chemistry Letters, 2016, 7, 1167-1172.	4.6	19
30	Interaction of carboxylic acids with rutile TiO2(110): IR-investigations of terephthalic and benzoic acid adsorbed on a single crystal substrate. Surface Science, 2016, 643, 117-123.	1.9	39
31	Band-gap engineering with a twist: Formation of intercalant superlattices in twisted graphene bilayers. Physical Review B, 2015, 91, .	3.2	18
32	Ab initio calculations on the magnetic properties of transition metal complexes. AIP Conference Proceedings, 2015, , .	0.4	0
33	Experimental and theoretical investigations of the electronic band structure of metal-organic frameworks of HKUST-1 type. Applied Physics Letters, 2015, 107, .	3.3	57
34	Tris(3,5â€dimethylpyrazolyl)methaneâ€Based Heterobimetallic Complexes that Contain Znï£; and CdTransitionâ€Metal Bonds: Synthesis, Structures, and Quantum Chemical Calculations. Chemistry - A European Journal, 2015, 21, 2905-2914.	3.3	19
35	Interfacial dominated ferromagnetism in nanograined ZnO: a $\hat{1}4$ SR and DFT study. Scientific Reports, 2015, 5, 8871.	3.3	97
36	The Interaction of Formic Acid with Zinc Oxide: A Combined Experimental and Theoretical Study on Single Crystal and Powder Samples. Topics in Catalysis, 2015, 58, 174-183.	2.8	32

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37	Ab Initio Study of the Adsorption of Small Molecules on Metal–Organic Frameworks with Oxo-centered Trimetallic Building Units: The Role of the Undercoordinated Metal Ion. Inorganic Chemistry, 2015, 54, 8251-8263.	4.0	48
38	Bi- and trimetallic rare-earth–palladium complexes ligated by phosphinoamides. Chemical Communications, 2015, 51, 11761-11764.	4.1	26
39	Trinuclear Early/Lateâ€Transitionâ€Metal Thiolate Complexes. European Journal of Inorganic Chemistry, 2014, 2014, 3510-3520.	2.0	6
40	Cu(II)- and Mn(III)-Porphyrin-Derived Oligomeric Multianions: Structures and Photoelectron Spectra. Journal of Physical Chemistry A, 2014, 118, 369-379.	2.5	13
41	Spin-Crossover and Massive Anisotropy Switching of 5d Transition Metal Atoms on Graphene Nanoflakes. Nano Letters, 2014, 14, 3364-3368.	9.1	28
42	Magnesium Anode for Chloride Ion Batteries. ACS Applied Materials & Interfaces, 2014, 6, 10997-11000.	8.0	69
43	Switching of a coupled spin pair in a single-molecule junction. Nature Nanotechnology, 2013, 8, 575-579.	31.5	107
44	A modified CAS-CI approach for an efficient calculation of magnetic exchange coupling constants. Molecular Physics, 2013, 111, 2594-2605.	1.7	15
45	Catalytic subsurface etching of nanoscale channels in graphite. Nature Communications, 2013, 4, 1379.	12.8	46
46	Magnetic anisotropy of graphene quantum dots decorated with a ruthenium adatom. Beilstein Journal of Nanotechnology, 2013, 4, 441-445.	2.8	4
47	Interkingdom Signaling: Integration, Conformation, and Orientation of <i>N</i> -Acyl- <scp>I</scp> -homoserine Lactones in Supported Lipid Bilayers. Langmuir, 2012, 28, 8456-8462.	3.5	27
48	[2.2]Paracyclophane derived bisphosphines for the activation of hydrogen by FLPs: application in domino hydrosilylation/hydrogenation of enones. Dalton Transactions, 2012, 41, 9056.	3.3	58
49	Selective Coordination Bonding in Metalloâ€Supramolecular Systems on Surfaces. Angewandte Chemie - International Edition, 2012, 51, 4327-4331.	13.8	40
50	The Surface Science Approach for Understanding Reactions on Oxide Powders: The Importance of IR Spectroscopy. Angewandte Chemie - International Edition, 2012, 51, 4731-4734.	13.8	68
51	Theoretical Approach Towards the Understanding of Asymmetric Additions of Dialkylzinc to Enals and Iminals Catalysed by [2.2]Paracyclophaneâ€Based N,Oâ€Ligands. Chemistry - A European Journal, 2012, 18, 8377-8385.	3.3	10
52	Deuterium-labelled N-acyl-l-homoserine lactones (AHLs)â€"inter-kingdom signalling moleculesâ€"synthesis, structural studies, and interactions with model lipid membranes. Analytical and Bioanalytical Chemistry, 2012, 403, 473-482.	3.7	14
53	Homoleptic 1-D iron selenolate complexes—synthesis, structure, magnetic and thermal behaviour of 1â^ž[Fe(SeR)2] (R = Ph, Mes). Dalton Transactions, 2011, 40, 7022.	3.3	29
54	How molecular oxygen binds to bis[trifluoroacetylacetonato(â^1)]cobalt(ii) –ab initio and density functional theory studies. Dalton Transactions, 2011, 40, 11289.	3.3	10

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55	Size and Isotope Effects of Helium Clusters and Droplets: Identification of Surface and Bulk-Volume Excitations. Journal of Physical Chemistry A, 2011, 115, 7316-7326.	2.5	31
56	The Formal Combination of Three Singlet Biradicaloid Entities to a Singlet Hexaradicaloid Metalloid Ge $<$ sub $>$ 14 $<$ sub $>$ [Si(SiMe $<$ sub $>$ 3 $<$ sub $>$ 3 $<$ sub $>$ 3 $<$ sub $>$ 3 $<$ sub $>$ 5 $<$ sub $>$ 6Li(THF) $<$ sub $>$ 2 $<$ sub $>$ 3 $<$ sub $>$ 3 $<$ sub $>$ 6Liuster. Journal of the American Chemical Society, 2011, 133, 2518-2524.	13.7	49
57	Charge Density Analysis of 2-Methyl-4-nitro-1-phenyl-1H-imidazole-5-carbonitrile: An Experimental and Theoretical Study of C≡N··Ĉa‰¡N Interactions. Journal of Physical Chemistry A, 2011, 115, 12941-12952.	2.5	21
58	Electrical control over the Fe(II) spin crossover in a single molecule: Theory and experiment. Physical Review B, $2011,83,.$	3.2	169
59	Uniform Ï€â€System Alignment in Thin Films of Templateâ€Grown Dicarbonitrileâ€Oligophenyls. Advanced Functional Materials, 2011, 21, 1631-1642.	14.9	32
60	Magnetic Properties of Paddlewheels and Trinuclear Clusters with Exposed Metal Sites. ChemPhysChem, 2011, 12, 3307-3319.	2.1	27
61	[Sn <sub>4</sub> Si{Si(SiMe <sub>3</sub> ) <sub>3</sub> } <sub>4</sub> {SiMe <sub>3</sub> } <sub>2</sub> ]: A Model Compound for the Unexpected Firstâ€Order Transition from a Singlet Biradicaloid to a Classical Bonded Molecule. Angewandte Chemie - International Edition, 2011, 50, 7273-7277.	13.8	17
62	Densityâ€functional study on the migration of Cd and Te adsorbates on the (001) surface of CdTe. Physica Status Solidi (B): Basic Research, 2010, 247, 937-944.	1.5	3
63	NMR-Spectroscopic and Solid-State Investigations of Cometal-Free Asymmetric Conjugate Addition: A Dinuclear Paracyclophaneimine Zinc Methyl Complex. Journal of the American Chemical Society, 2010, 132, 12899-12905.	13.7	29
64	Expanding the Coordination Cage: A Ruthenium(II)â^Polypyridine Complex Exhibiting High Quantum Yields under Ambient Conditions. Inorganic Chemistry, 2009, 48, 5677-5684.	4.0	73
65	Synthesis, Electronic Structure, and Structural Characterization of the New, "Non-Innocent― 4,5-Dithio-Catecholate Ligand, Its Metal Complexes, and Their Oxidized 4,5-Dithio- <i>o</i> ooooooo<	4.0	14
66	Synthesis and Structure of an "lron-Doped―Copper Selenide Cluster Molecule: [Cu <sub>30</sub> Fe <sub>2</sub> Se <sub>6</sub> (SePh) <sub>24</sub> (dppm) <sub>4</sub> ]. Inorganic Chemistry, 2009, 48, 8977-8984.	4.0	19
67	The method of local increments for the calculation of adsorption energies of atoms and small molecules on solid surfaces : Part I. A single Cu atom on the polar surfaces of ZnO. Physical Chemistry Chemical Physics, 2009, 11, 11196.	2.8	25
68	Ab initio study of the magnetic exchange coupling constants of a structural model [CaMn3IIIMnII] of the oxygen evolving center in photosystem II. Physical Chemistry Chemical Physics, 2009, 11, 3900.	2.8	23
69	Adsorption of single Cu atoms at differently stabilized polar ZnO surfaces: An <i>ab initio</i> study. Journal of Computational Chemistry, 2008, 29, 2302-2310.	3.3	13
70	Lithium-promoted hydrogenation of carbon dioxide to formates by heterobimetallic hydridozinc alkoxideclusters. Chemical Communications, 2008, , 73-75.	4.1	25
71	The spin coupling in the diiron complex [Fe2(hpdta)(H2O)3Cl]. Physical Chemistry Chemical Physics, 2007, 9, 1911-1920.	2.8	13
72	A quantum chemical approach towards the electronically excited states of helium clusters. European Physical Journal D, 2007, 43, 121-124.	1.3	12

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73	Ab initio cluster calculations on the electronic structure of oxygen vacancies at the polar ZnO(0001Ì,,) surface and on the adsorption of H2, CO, and CO2 at these sites. Physical Chemistry Chemical Physics, 2006, 8, 1482.	2.8	46
74	Ab initio cluster calculations of the magnetic properties of ZnO doped with transition metal ions. Chemical Physics, 2006, 326, 297-307.	1.9	20
75	Active Sites on Oxide Surfaces: ZnO-Catalyzed Synthesis of Methanol from CO and H2. Angewandte Chemie - International Edition, 2005, 44, 2790-2794.	13.8	192
76	Zinc Oxide Nanoparticles with Defects. Advanced Functional Materials, 2005, 15, 1945-1954.	14.9	499
77	Ab initio Cluster Calculations for the Absorption Energies of F and F+ Centers in Bulk ZnO ChemInform, 2005, 36, no.	0.0	O
78	Comment on "Excitations in photoactive molecules from quantum Monte Carlo―[J. Chem. Phys. 121, 5836 (2004)]. Journal of Chemical Physics, 2005, 122, 087101.	3.0	6
79	Ab initio cluster calculations for the absorption energies of F and F+ centers in bulk ZnO. Physical Chemistry Chemical Physics, 2005, 7, 2999.	2.8	31
80	Stabilization of Polar ZnO Surfaces: Validating Microscopic Models by Using CO as a Probe Molecule. Physical Review Letters, 2003, 90, 106102.	7.8	164
81	An ab initio study of the adsorption of CO on a Zn4O4 cluster with wurtzite-like structure. Chemical Physics, 2003, 287, 183-195.	1.9	24
82	An ab initio cluster study of the magnetic properties of the CoO(001) surface. Chemical Physics, 2002, 278, 79-87.	1.9	27
83	Ab initio calculation of the magnetic exchange coupling in linear oxo-bridged heterobinuclear complexes of titanium (III), vanadium (III), and chromium (III). International Journal of Quantum Chemistry, 2000, 76, 137-147.	2.0	21
84	Superexchange and Spinâ^'Orbit Coupling in Chlorine-Bridged Binuclear Cobalt(II) Complexes. Inorganic Chemistry, 1999, 38, 3847-3856.	4.0	59
85	Ab initiocalculation of potential energy surfaces for the three lowest triplet states (1 3A′′,1 3A,2â€ PH(X,A)–He. Journal of Chemical Physics, 1997, 106, 7637-7641.	E‰3A′.	′) of
86	Autoionization spectroscopy of CO on metal oxide surfaces. Journal of Electron Spectroscopy and Related Phenomena, 1996, 77, 155-171.	1.7	7
87	A quantum chemical ab initio study of the superexchange coupling in binuclear oxygen-bridged Ni(II) complexes. Chemical Physics, 1995, 192, 25-35.	1.9	50
88	An ab initio study of the geometry dependence of the magnetic exchange coupling in oxo-bridged binuclear chromium(III) complexes. Chemical Physics, 1995, 201, 87-94.	1.9	39
89	Abinitiocalculations of van der Waals interactions in one―and twoâ€dimensional infinite periodic systems. Journal of Chemical Physics, 1995, 103, 2603-2614.	3.0	26
90	Ab Initio Calculation of the Magnetic Exchange Coupling in Linear Oxo-Bridged Binuclear Complexes of Titanium(III), Vanadium(III), and Chromium(III). Inorganic Chemistry, 1994, 33, 6219-6229.	4.0	89